# ENSOLUM

October 10, 2022

District I New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

## Re: Closure Request Eata Fajita B CTB Incident Number NAPP2220244157 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Eata Fajita B CTB (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water within the lined tank battery containment and onto the Site's pad. Based on field observations, excavation activities, and laboratory analytical results from the soil sampling events, COG is submitting this Closure Request, describing remediation that has occurred and requesting no further action for Incident Number NAPP2220244157.

#### SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 8, Township 24 South, Range 33 East, in Lea County, New Mexico (32.22607° N, 103.59196° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On July 12, 2022, a gasket failed on the production knockout tank, resulting in the release of approximately 15.42 barrels (bbls) of crude oil and 46.25 bbls of produced water into the lined containment and onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 10 bbls of crude oil and 5 bbls of produced water were recovered. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on July 13, 2022 and submitted a Release Notification Form C-141 (Form C-141) on July 21, 2022. The release was assigned Incident Number NAPP2220244157.

## SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843 COG Operating, LLC Closure Request Eata Fajita B CTB October 10, 2022

groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-3565 POD 3, located approximately 0.1 miles northeast of the Site. The groundwater well has a reported depth to groundwater greater than 1,533 feet bgs and a total depth of 1,533 feet bgs. Ground surface elevation at the groundwater well location is 3,600 feet above mean sea level (amsl), which is approximately 2 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 4,245 feet northeast 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 not within a 100-year floodplain or overlying a subsurface mine. The Site is less than 1,000 feet to a freshwater well or spring; however, the well has been properly plugged and abandoned based on information provided in Appendix A. The well was plugged and is not a conduit. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

## SITE ASSESMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On August 2, 2022, site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. Three preliminary assessment soil samples (SS01 through SS03) were collected within the release extent at a depth of 0.5 feet bgs, to assess surficial soil within the immediate release extent. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips. The visible release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. A photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody 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 for preliminary soil sample SS03 indicated the TPH concentration exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 and SS02 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Based on visible staining in the release area and laboratory analytical results for preliminary soil sample SS03 excavation activities appeared to bewarranted.



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#### DELINEATION ACTIVITIES AND ANALYTICAL RESULTS

A 48-hour advance notice of liner inspection was provided via email on August 22, 2022 to the NMOCD District I office. A liner integrity inspection was conducted by Ensolum personnel on August 25, 2022 following fluid recovery, and upon inspection, the liner was determined to be insufficient.

Between September 15 and September 28, 2022, Ensolum personnel were at the Site to perform delineation activities. One borehole (BH01) was advanced via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Five discrete delineation soil samples (BH01 through BH01D) were collected from the borehole at depths ranging from 0.5 feet to 8 feet bgs before encountering auger refusal. Soil from the delineation samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included in Appendix C. The borehole was backfilled with soil removed and the tear in the liner was repaired. On September 15 and September 28, 2022, four assessment samples (SS04 through SS07) were collected around the release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. The borehole and delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation samples from borehole BH01, collected at depths ranging from 0.5 feet to 8 feet bgs, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for the soil samples SS04 through SS07, collected around the release extent, were compliant with the Site Closure Criteria.

#### **EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS**

Upon completion of delineation activities, impacted soil was excavated as indicated by visible staining and laboratory analytical results for the preliminary soil sample SS03. Excavation activities were performed using track-mounted backhoe, hydrovac, and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a depth of 2 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at a depth of 2 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 2 feet bgs. The excavation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4.

The excavation measured approximately 770 square feet. A total of approximately 57 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for excavation floor samples FS01 through FS04, and sidewall samples SW01 and SW02 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.



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#### **CLOSURE REQUEST**

Following the failed liner integrity inspection at the Site, Ensolum personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of impacted soil resulting from the July 12, 2022, crude oil and produced water release within the lined containment and onto the surface of the well pad. The release was contained vertically by the lined containment. The tear in the liner was subsequently repaired. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation was required. COG will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions.

Excavation of impacted soil has mitigated impacts at this Site. COG believes the remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2220244157. The Final C-141 is included in Appendix F.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, Ensolum, LLC

adrie & roem

Hadlie Green Staff Geologist

cc: Charles Beauvais, COG Operating, LLC New Mexico State Land Office

Appendices:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Figure 4 Excavation Soil Sample Locations
- Table 1
   Soil Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Photographic Log
- Appendix C Lithologic Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation
- Appendix E NMOCD Sample Notification
- Appendix F Final C-141

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Kalei Jennings Senior Scientist





**FIGURES** 

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# TABLES

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# **ENSOLUM**

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Eata Fajita B CTB COG Operating, LLC Lea 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 C	losure Criteria (	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000			
		I		Preli	iminary Soil Sa	mples	ļ	Į	Į	ļ			
SS01	08/02/2022	0.5	<0.00199	<0.00398	<49.9	92.2	<49.9	92.2	92.2	2,990			
SS02	08/02/2022	0.5	<0.00199	<0.00398	<49.9	107	<49.9	107	107	4,880			
SS03	08/02/2022	0.5	<0.00200	0.190	106	2,940	304	3,046	3,350	198			
	Delineation Soil Samples												
BH01	09/15/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.7			
BH01A	09/15/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15.1			
BH01B	09/15/2022	2	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	16.7			
BH01C	09/15/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	114			
BH01D	09/15/2022	8	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	100			
SS04	09/15/2022	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	91.7			
SS05	09/28/2022	0.5	<0.00201	<0.00402	<49.8	836	<49.8	836	836	292			
SS06	09/28/2022	0.5	<0.00199	<0.00398	<49.9	329	<49.9	329	329	208			
SS07	09/28/2022	0.5	<0.00200	<0.00399	<49.9	310	<49.9	310	310	199			
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FS01	09/28/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	101			
FS02	09/28/2022	2	<0.00200	<0.00399	<50.0	198	<50.0	198	198	67.1			
FS03	09/28/2022	2	<0.00199	0.00403	<50.0	142	<50.0	142	142	65.8			
FS04	09/28/2022	2	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	156			
014/04	0.0 /0.0 /0.05 -				on Sidewall So	-		10.0	10.0				
SW01	09/28/2022	0 - 2	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	19.3			
SW02	09/28/2022	0 - 2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	17.2			

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation

standard where applicable.

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# APPENDIX A

Referenced Well Records

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# WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

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# WELL RECORD & LOG

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STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

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WE	1295	1310	1	5		A-4 sub-mbr white anhydrite		🗘 YES	[∕] NO
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Ö,	1330	1375	4	5		A-3 sub-mbr. white anhydrite		🗖 yes	Ø №
i je	1375	1479	11	2		C YES	NO 🖸		
GEOLOGIC LOC OF WELL	1479	1489	10	)		🛛 YES			
350	1489	1533	44	\$		O YES			
ъ.								🖸 YES	
								D YES	
								🖸 YES	
					1			🗋 YES	
								🗋 YES	
								S YES	
			АТТАСН	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC I	OG OF THE WELL		
			METHOD:	BAILE	R DPUMP	AIR LIFT OTHER - SPECIFY: NA	······		
ADDITIONAL INFO	WELL	TEST				ATA COLLECTED DURING WELL TESTING, IN ND DRAWDOWN OVER THE TESTING PERIO		ME, END TI	ME,
× Z	ADDITION	AL STATEN	ENTS OR EXPL	ANATIONS:		· · · · · · · · · · · · · · · · · · ·			
Ĕ									
9									
-8									
TEST									
ri -									
<u></u>	THE UND	ERSIGNE	D HEREBY C	ERTIFIES T	HAT, TO THE BE	ST OF HIS OR HER KNOWLEDGE AND BELIEF	, THE FOREGOING IS	A TRUE A	ND I
SIGNATURE						) THAT HE OR SHE WILL FILE THIS WELL REC ON OF WELL DRILLING:	ORD WITH THE STA	TE ENGINE	ER AND
	*	5	5	0(	А				
8. SIG	1	The	(April	St.	للب	17-10-12			
			SIGNATUR	E OF DRILL	ER	DATE			

FOR OSE INTERNAL USE		WELL RECORD &	LOG (Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATED - 1 0 1 1.1 330 7107 1			PAGE 2 OF 2
L SOZMETT NEW MEXICO		÷ĸ.	

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Page 17 of 134

NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior

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WELL PLUGGING

PLAN OF OPERATIONS

I. FILING FEE: There is no filing fee for this form.

## II. GENERAL / WELL OWNERSHIP:

to plugging.

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: ICP-085											
Name of well owner:	Intercontinental Potash Co	rp_USA			<del></del>						
Mailing address:	600 West Bender Blvd										
City: <u>Hobbs</u>	······	State:	<u>NM</u>	Zip code:	88240						
Phone number:	<u>575.942.2799</u>		_ E-mail:to	ope@icpotash.com							

## **III. WELL DRILLER INFORMATION:**

Well Driller contracted to provide plugging services:	Stewart Brothers		
New Mexico Well Driller License No.:	WD#331	Expiration Date:	8/31/2013

#### **IV. WELL INFORMATION:**

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

1)	GPS Well Location:	Latitude: Longitude:		deg, _ deg, _	<u>13</u> 35		<u>39.74755</u> sec N <u>27.61562</u> sec W, N/	AD 83
2)	Reason(s) for plugging	well: <u>Core</u>	to ore zon	e, abando	on boreh	ole		
3)	Was well used for any t hydrogeologic paramete authorization from the 1	ers were monitor	ed. If the	well wa	is used t	to monito	r contaminated or poo	
4)	Does the well tap brack	· ·	•			_		
	ERCINEES OF FICE	JTAT2						
								Well Plugging Plan

Version: December, 2011 Page 1 of 5



USGS Home Contact USGS Search USGS

# **National Water Information System: Web Interface**

USGS Water Resources	Data Category:		Geographic Area:			
obdo mater Resources	Groundwater	×	United States	$\checkmark$	GO	

## Click to hideNews Bulletins

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

Groundwater levels for the Nation

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

# Search Results -- 1 sites found

Agency code = usgs site\_no list = • 321236103350101

# **Minimum number of levels =** 1

Save file of selected sites to local disk for future upload

# USGS 321236103350101 24S.33E.17.444414

Available data for this site Groundwater: Field measurements V

Lea County, New Mexico Hydrologic Unit Code 13070007 Latitude 32°12'36", Longitude 103°35'01" NAD27 Land-surface elevation 3,573 feet above NAVD88 This well is completed in the Other aquifers (N99990THER) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

## **Output formats**

GO

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



USGS 321236103350101 245.33E.17.444414

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

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips Explanation of terms Subscribe for system changes News

Accessibility FOIA Privacy Policies and Notices

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

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2022-08-02 09:28:46 EDT 0.56 0.48 nadww02





# APPENDIX B

Photographic Log

**Released to Imaging: 4/19/2023 2:40:24 PM** 



Photographic Log COG Operating, LLC Eata Fajita B CTB Incident Number NAPP2220244157



Photograph 1 Date: 08/02/2022 Description: Photo of release extent taken during initial site assessment, facing northeast.



Photograph 2 Date: 08/25/2022 Description: Photo of liner taken during liner inspection, facing south.





 Photograph 3
 Date: 09/15/2022
 Photograph 4
 Date: 09/28/2022

 Description: Photo of location of BH01 taken during liner delineation, facing east.
 Description: Photo of excavation extent, facing northeast.



APPENDIX C

Lithologic Soil Sampling Logs

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								Sample Name: BH01	Date: 09/15/2022
				C	ΟΙ		R A	Site Name: Eata Fajita B CTB	
				3				Incident Number: NAPP22202441	57
								Job Number: 03D2024075	
		LITHOL	OGI		SAMPLING	LOG		Logged By: LC	Method: Hand Auger
Coordi		2.226214,		-				Hole Diameter: 4"	Total Depth: 8'
					ith HACH Ch	loride Test S	strips and	PID for chloride and vapor, respec	•
					l to distilled		·		
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
					1	L O			
D	<168	0.3	N	BH01	0.5	0.5	CCHE	CALICHE, tan, abundant lim odor, no stain, dry.	estone clasts, no
м	<168	0.1	Ν	BH01A	1	1	CCHE	SAA	
м	<168	0.0	Ν	BH01B	2	2	SM	SILTY SAND, reddish brown no odor.	, fine grain, no stain,
м	<168	0.0	Ν		-	3	SM	SAA	
м	<168	0.0	Ν	BH01C	4 -	4 5 6	SM	SAA	
м	<168	0.0	Ν	BH01D		- - - - - - 8	SM	SAA	
	100	0.0		BHOID	-	-	5111	5,00	
						TD @	Ø 8 feet	bgs	



# APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Received by OCD: 10/10/2022 9:37:28 AM

LINKS

Review your project results through

EOL

Have a Question?

www.eurofinsus.com/Env

Released to Imaging: 4/19/2023 2:40:24 PM

Visit us at:

Ask— The Expert

# eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-2706-1

Laboratory Sample Delivery Group: Lea County NM Client Project/Site: Eata Fajita B CTB

# For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 8/12/2022 7:58:03 AM 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 signature.

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

Laboratory Job ID: 890-2706-1 SDG: Lea County NM

# **Table of Contents**

Cover Page	1
Table of Contents	2
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Case Narrative	4
Client Sample Results	5
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	15
Lab Chronicle	17
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	22

2

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-2706-1

Page 27 of 134

SDG: Lea County NM

# Qualifiers

Quantoro		3
GC VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	-
F2	MS/MSD RPD exceeds control limits	5
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	8
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		9
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	10
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	

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

#### Job ID: 890-2706-1

Client: Ensolum

#### Laboratory: Eurofins Carlsbad

Project/Site: Eata Fajita B CTB

#### Narrative

Job Narrative 890-2706-1

#### Receipt

The samples were received on 8/2/2022 3:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31602 and 880-31669 and analytical batch 880-31654 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS03 (890-2706-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31669 and analytical batch 880-31654 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: Surrogate recovery for the following samples were outside control limits: SS01 (890-2706-1), SS02 (890-2706-2), (890-2706-A-1-B MS) and (890-2706-A-1-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS03 (890-2706-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31555 and analytical batch 880-31531 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-31559 and analytical batch 880-31937 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.

4

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 - 130 70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

08/05/22 13:42

08/05/22 13:42

08/05/22 13:42

08/05/22 13:42

08/05/22 13:42

08/05/22 13:42

Prepared

08/05/22 13:42

08/05/22 13:42

Job ID: 890-2706-1 SDG: Lea Cou

# **Client Sample ID: SS01**

Date Collected: 08/02/22 12:30 Date Received: 08/02/22 15:53

Sample Depth: 0.5

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

# Lab Sample ID: 890-2

Analyzed

08/07/22 19:35

08/07/22 19:35

08/07/22 19:35

08/07/22 19:35

08/07/22 19:35

08/07/22 19:35

Analyzed

08/07/22 19:35

08/07/22 19:35

Matrix

nty NM	2
706-1 :: Solid	3
	4
	5
Dil Fac	6
1 1	0
1 1	7
1 1	8
Dil Fac	9
1 1	10
Dil Fac	11
1	12
Dil Fac	13
1	14
Dil Fac	
1	

Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			08/08/22 16:27	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	92.2		49.9	mg/Kg			08/08/22 11:58	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	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/05/22 21:54	1
Diesel Range Organics (Over C10-C28)	92.2	F1	49.9	mg/Kg		08/05/22 09:50	08/05/22 21:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/05/22 21:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	66	S1-	70 - 130			08/05/22 09:50	08/05/22 21:54	1
o-Terphenyl	76		70 - 130			08/05/22 09:50	08/05/22 21:54	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2990		24.8	mg/Kg			08/12/22 06:05	5
Client Sample ID: SS02						Lab Sar	nple ID: 890-	2706-2
Date Collected: 08/02/22 12:40							Matri	x: Solid
Date Received: 08/02/22 15:53								
Sample Depth: 0.5								
- Method: 8021B - Volatile Organic	Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		08/05/22 13:42	08/07/22 19:56	1
Toluene	<0.00199	U	0.00199	mg/Kg		08/05/22 13:42	08/07/22 19:56	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		08/05/22 13:42	08/07/22 19:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		08/05/22 13:42	08/07/22 19:56	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		08/05/22 13:42	08/07/22 19:56	1

Xylenes, Total <0.00398 U 0.00398 08/05/22 13:42 08/07/22 19:56 mg/Kg Qualifier Limits Prepared Surrogate %Recovery Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 70 - 130 08/05/22 13:42 08/07/22 19:56 116

**Eurofins Carlsbad** 

Client: Ensolum Project/Site: Eata Fajita B CTB

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

Qualifier

<0.00199 U

<0.00199 U

<0.00199 U

<0.00398 U

<0.00199 U

<0.00398 U

113

94

%Recovery

Released to Imaging: 4/19/2023 2:40:24 PM

1

1

## **Client Sample Results**

Limits

70 - 130

RL

RL

49.9

0.00398

Unit

Unit

mg/Kg

mg/Kg

Job ID: 890-2706-1 SDG: Lea County NM

%Recovery Qualifier

Result Qualifier

Result Qualifier

92

<0.00398 U

107

**Client Sample ID: SS02** Date Collected: 08/02/22 12:40 Date Received: 08/02/22 15:53

Project/Site: Eata Fajita B CTB

Sample Depth: 0.5

1,4-Difluorobenzene (Surr)

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Client: Ensolum

Lab Sample ID	: 890-2706-2
	Matrix: Solid

Analyzed

08/07/22 19:56

Analyzed

08/08/22 16:27

Analyzed

08/08/22 11:58

Prepared

08/05/22 13:42

Prepared

Prepared

D

D

Dil Fac Dil Fac Dil Fac

1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/05/22 22:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	107		49.9	mg/Kg		08/05/22 09:50	08/05/22 22:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		08/05/22 09:50	08/05/22 22:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	65	S1-	70 - 130			08/05/22 09:50	08/05/22 22:58	1
o-Terphenyl	76		70 - 130			08/05/22 09:50	08/05/22 22:58	1
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4880		25.2	mg/Kg			08/12/22 06:14	5
Client Sample ID: SS03						Lab Sar	nple ID: 890-	2706-3
						Lab Sar	nple ID: 890-2 Matri	
Client Sample ID: SS03 Date Collected: 08/02/22 12:50						Lab Sar	-	2706-3 x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53						Lab Sar	-	
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53						Lab Sar	-	
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5	Compounds (	GC)				Lab Sar	-	
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53		GC) Qualifier	RL	Unit	D	Lab Sar	-	
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic		Qualifier	RL	Unit mg/Kg	D		Matri	x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte	Result	Qualifier			<u>D</u>	Prepared	. Matri	x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene	Result <0.00200	Qualifier	0.00200	mg/Kg	D	Prepared 08/05/22 13:42	Matri <u>Analyzed</u> 08/07/22 20:16	x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene Toluene	Result <0.00200 <0.00200	Qualifier	0.00200	mg/Kg mg/Kg	D	Prepared 08/05/22 13:42 08/05/22 13:42	Analyzed 08/07/22 20:16 08/07/22 20:16	x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene	Result           <0.00200	Qualifier	0.00200 0.00200 0.00200	mg/Kg mg/Kg mg/Kg	D	Prepared 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42	Matri Analyzed 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16	x: Solid
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00200	Qualifier	0.00200 0.00200 0.00200 0.00401	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42	Matri Analyzed 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16	Dil Fac           1           1           1           1           1
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00200	Qualifier U U	0.00200 0.00200 0.00200 0.00401 0.00200	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	<b>Prepared</b> 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42	Matri Analyzed 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16	2011 Fac
Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53 Sample Depth: 0.5 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result           <0.00200	Qualifier U U	0.00200 0.00200 0.00200 0.00401 0.00200 0.00401	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	D	Prepared 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42 08/05/22 13:42	Matri 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16 08/07/22 20:16	2011 Fac

Method: Total BTEX - Total BTEX	Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.190	0.00401	mg/Kg			08/08/22 16:27	1
Method: 8015 NM - Diesel Range	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3350	50.0	mg/Kg			08/08/22 11:58	1

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

Method: Total BTEX - Total BTEX Calculation

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

Method: 300.0 - Anions, ion Chrom	atograpny - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4880	25.2	mg/Kg			08/12/22 06:14	5

## **Client Sample ID: SS0**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
Ethylbenzene	0.0214		0.00200	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
m-Xylene & p-Xylene	0.0961		0.00401	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
o-Xylene	0.0726		0.00200	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
Xylenes, Total	0.169		0.00401	mg/Kg		08/05/22 13:42	08/07/22 20:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	174	S1+	70 - 130			08/05/22 13:42	08/07/22 20:16	1
1,4-Difluorobenzene (Surr)	83		70 - 130			08/05/22 13:42	08/07/22 20:16	1
Method: Total BTEX - Total BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.190		0.00401	mg/Kg			08/08/22 16:27	1
Method: 8015 NM - Diesel Range Orga	nics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3350		50.0	mg/Kg			08/08/22 11:58	1

Matrix: Solid

5

# **Client Sample Results**

Job ID: 890-2706-1 SDG: Lea County NM

Lab Sample ID: 890-2706-3

# Project/Site: Eata Fajita B CTB Client Sample ID: SS03

Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53

## Sample Depth: 0.5

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	106		50.0	mg/Kg		08/05/22 09:50	08/06/22 04:02	1
Diesel Range Organics (Over C10-C28)	2940		50.0	mg/Kg		08/05/22 09:50	08/06/22 04:02	1
Oll Range Organics (Over C28-C36)	304		50.0	mg/Kg		08/05/22 09:50	08/06/22 04:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	53	S1-	70 - 130			08/05/22 09:50	08/06/22 04:02	1
o-Terphenyl	52	S1-	70 - 130			08/05/22 09:50	08/06/22 04:02	1
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble						
					-			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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Project/Site: Eata Fajita B CTB

#### Job ID: 890-2706-1 SDG: Lea County NM

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

Matrix: Solid

Client: Ensolum

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-2689-A-13-E MS	Matrix Spike	114	95		
890-2689-A-13-F MSD	Matrix Spike Duplicate	120	94		
890-2703-A-1-C MS	Matrix Spike	109	95		
890-2703-A-1-D MSD	Matrix Spike Duplicate	113	80		
890-2706-1	SS01	113	94		
890-2706-2	SS02	116	92		
890-2706-3	SS03	174 S1+	83		
LCS 880-31602/1-A	Lab Control Sample	107	99		
LCS 880-31669/1-A	Lab Control Sample	100	99		
LCSD 880-31602/2-A	Lab Control Sample Dup	99	97		
LCSD 880-31669/2-A	Lab Control Sample Dup	101	101		
MB 880-31602/5-A	Method Blank	95	80		
MB 880-31669/5-A	Method Blank	130	111		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben	zene (Surr)				

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

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2706-1	SS01	66 S1-	76
890-2706-1 MS	SS01	68 S1-	67 S1-
890-2706-1 MSD	SS01	63 S1-	65 S1-
890-2706-2	SS02	65 S1-	76
890-2706-3	SS03	53 S1-	52 S1-
LCS 880-31555/2-A	Lab Control Sample	89	96
LCSD 880-31555/3-A	Lab Control Sample Dup	89	97
MB 880-31555/1-A	Method Blank	83	101

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

#### Job ID: 890-2706-1 SDG: Lea County NM

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Project/Site: Eata Fajita B CTB Method: 8021B - Volatile Organic Compounds (GC)

# Lab Sample ID: MB 880-31602/5-A

Matrix: Solid

Client: Ensolum

#### Analysis Batch: 31654 Prep Batch: 31602 MB MB Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 1 Toluene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 1 Ethylbenzene <0.00200 U 0.00200 08/05/22 13:42 08/07/22 13:44 mg/Kg 1 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 08/05/22 13:42 08/07/22 13:44 1 o-Xylene <0.00200 U 0.00200 mg/Kg 08/05/22 13:42 08/07/22 13:44 1 Xylenes, Total <0.00400 U 0.00400 08/05/22 13:42 08/07/22 13:44 mg/Kg 1 MB MB Qualifier Limits Surrogate %Recovery Prepared Dil Fac Analyzed 70 - 130 4-Bromofluorobenzene (Surr) 08/05/22 13:42 08/07/22 13:44 95 1 80 70 - 130 08/05/22 13:42 08/07/22 13:44 1,4-Difluorobenzene (Surr) 1

#### Lab Sample ID: LCS 880-31602/1-A Matrix: Solid

#### Analysis Batch: 31654

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1073		mg/Kg		107	70 - 130	
Toluene	0.100	0.1053		mg/Kg		105	70 - 130	
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130	
m-Xylene & p-Xylene	0.200	0.2245		mg/Kg		112	70 - 130	
o-Xylene	0.100	0.1208		mg/Kg		121	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

#### Lab Sample ID: LCSD 880-31602/2-A

#### Matrix: Solid

Analysis Batch: 31654							Prep	Batch:	31602
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09355		mg/Kg		94	70 - 130	14	35
Toluene	0.100	0.09121		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.09177		mg/Kg		92	70 - 130	19	35
m-Xylene & p-Xylene	0.200	0.1821		mg/Kg		91	70 - 130	21	35
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130	18	35
Ethylbenzene m-Xylene & p-Xylene	0.100 0.200	0.09177 0.1821		mg/Kg mg/Kg		92 91	70 - 130 70 - 130	19 21	35 35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

# Lab Sample ID: 890-2703-A-1-C MS

# Matrix: Solid

Analysis Batch: 31654									Prej	p Batch: 31602
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F2 F1	0.0998	0.04079	F1	mg/Kg		41	70 - 130	
Toluene	<0.00200	U F2 F1	0.0998	0.04164	F1	mg/Kg		42	70 - 130	

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Prep Type: Total/NA

#### **Client Sample ID: Lab Control Sample** Prep Type: Total/NA Prep Batch: 31602

**Client Sample ID: Lab Control Sample Dup** 

Prep Type: Total/NA

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**Client Sample ID: Matrix Spike** 

Lab Sample ID: 890-2703-A-1-C MS

## **QC Sample Results**

MS MS

0.04162 F1

0.07188 F1

0.05817 F1

**Result Qualifier** 

Unit

mg/Kg

mg/Kg

mg/Kg

Spike

Added

0.0998

0.200

0.0998

Limits 70 - 130

70 - 130

Client: Ensolum Project/Site: Eata Fajita B CTB

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 31654

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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

Sample Sample

<0.00200 U F2 F1

<0.00401 U F2 F1

<0.00200 U F2 F1

MS MS

109

95

Qualifier

%Recovery

**Result Qualifier** 

Job ID: 890-2706-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Batch: 31602

**Client Sample ID: Matrix Spike** 

%Rec

Limits

70 - 130

70 - 130

70 - 130

%Rec

42

36

58

D

# 7

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

**Client Sample ID: Method Blank** 

08/08/22 00:21

08/08/22 00:21

**Client Sample ID: Lab Control Sample** 

08/07/22 12:02

08/07/22 12:02

Prep Type: Total/NA

Prep Batch: 31669

Potob: 21602

#### Lab Sample ID: 890-2703-A-1-D MSD Matrix: Solid Analysis Batch: 31654

I	Analysis Batch: 31654									Prep	Batch: 3	31602	
		Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	Benzene	<0.00200	U F2 F1	0.100	0.002587	F2 F1	mg/Kg		3	70 - 130	176	35	
	Toluene	<0.00200	U F2 F1	0.100	0.003991	F2 F1	mg/Kg		4	70 - 130	165	35	ī
	Ethylbenzene	<0.00200	U F2 F1	0.100	0.004040	F2 F1	mg/Kg		4	70 - 130	165	35	
	m-Xylene & p-Xylene	<0.00401	U F2 F1	0.201	<0.00402	U F2 F1	mg/Kg		1	70 - 130	185	35	ī
	o-Xylene	<0.00200	U F2 F1	0.100	0.01486	F2 F1	mg/Kg		15	70 - 130	119	35	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

#### Lab Sample ID: MB 880-31669/5-A Matrix: Solid Analysis Batch: 31654

-	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		08/07/22 12:02	08/08/22 00:21	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

4-Bromofluorobenzene (Surr)	130	70 - 130
1,4-Difluorobenzene (Surr)	111	70 - 130

#### Lab Sample ID: LCS 880-31669/1-A Matrix: Solid Analysis Batch: 31654

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1009		mg/Kg		101	70 - 130
Toluene	0.100	0.09893		mg/Kg		99	70 - 130
Ethylbenzene	0.100	0.09835		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.1984		mg/Kg		99	70 - 130

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Prep Type: Total/NA

Prep Batch: 31669

1

1

Lab Sample ID: LCS 880-31669/1-A

# **QC Sample Results**

Client: Ensolum Project/Site: Eata Fajita B CTB

Matrix: Solid

Analysis Batch: 31654

Job ID: 890-2706-1 SDG: Lea County NM

Prep Type: Total/NA

Prep Batch: 31669

**Client Sample ID: Lab Control Sample** 

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

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.1126		mg/Kg		113	70 - 130		
	LCS	105									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	<u></u>		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: LCSD 880-3	31669/2-A					Clier	nt Sam	nple ID: I	Lab Contro		
Matrix: Solid										Type: Tot	
Analysis Batch: 31654										Batch:	
			Spike		LCSD		_	~ <b>-</b>	%Rec		RPI
Analyte			Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limi
Benzene			0.100	0.1023		mg/Kg		102	70 - 130	1	3
Toluene			0.100	0.1004		mg/Kg		100	70 - 130	2	3
Ethylbenzene			0.100	0.1014		mg/Kg		101	70 - 130	3	3
m-Xylene & p-Xylene			0.200	0.2043		mg/Kg		102	70 - 130	3	3
o-Xylene			0.100	0.1134		mg/Kg		113	70 - 130	1	3
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	101		70 - 130								
									Prep T	: Matrix Type: Tot Batch:	tal/N
	Sample	Sample	Spike	MS	MS				Prep T		tal/N/
Analysis Batch: 31654	-	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	Prep T Prep	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte	-	Qualifier				- Unit mg/Kg	D		Prep T Prep %Rec	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene	Result	Qualifier U	Added	Result			D	%Rec	Prep T Prep %Rec Limits	Type: Tot	tal/N/
Analysis Batch: 31654 Analyte	Result <0.00202	Qualifier U U	Added	<b>Result</b> 0.1058		mg/Kg	D	<b>%Rec</b>	Prep T Prep %Rec Limits 70 - 130	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene	Result           <0.00202	Qualifier U U U	Added	<b>Result</b> 0.1058 0.1129		mg/Kg mg/Kg	<u> </u>	%Rec 105 112	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00202	Qualifier U U U U	Added 0.100 0.100 0.100	Result           0.1058           0.1129           0.1179	Qualifier	mg/Kg mg/Kg mg/Kg	D	%Rec 105 112 117	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result           <0.00202	Qualifier U U U U U U U U F1	Added 0.100 0.100 0.100 0.201	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 105 112 117 122	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tot	tal/N/
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result           <0.00202	Qualifier U U U U U U U U F1	Added 0.100 0.100 0.100 0.201	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 105 112 117 122	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene	Result           <0.00202	Qualifier U U U U U U U U F 1 <i>MS</i>	Added 0.100 0.100 0.100 0.201 0.100	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 105 112 117 122	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tot	tal/NA
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	Result           <0.00202	Qualifier U U U U U U U U F 1 <i>MS</i>	Added 0.100 0.100 0.201 0.100 Limits	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 105 112 117 122	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tot	tal/N/
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result           <0.00202	Qualifier U U U U U U U U F 1 <i>MS</i>	Added           0.100           0.100           0.100           0.201           0.100	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 105 112 117 122 136	Prep T           Prep           %Rec           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	Type: Tof	tal/N/ 31669
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A	Result           <0.00202	Qualifier U U U U U U U U F 1 <i>MS</i>	Added           0.100           0.100           0.100           0.201           0.100	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 105 112 117 122 136	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tof	tal/NA 31669
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid	Result           <0.00202	Qualifier U U U U U U U U F 1 <i>MS</i>	Added           0.100           0.100           0.100           0.201           0.100	Result           0.1058           0.1129           0.1179           0.2446	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 105 112 117 122 136	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup	blicate
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid	Result <0.00202 <0.00202 <0.00202 <0.00403 <0.00202 MS %Recovery 114 95 -13-F MSD	Qualifier U U U U U F 1 MS Qualifier	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.100           0.201           0.100           0.100           1.00           Limits           70 - 130           70 - 130	Result           0.1058           0.1129           0.1179           0.2446           0.1369	<b>Qualifier</b> F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 105 112 117 122 136	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Type: Tof	blicate 3166
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654	Result           <0.00202	Qualifier U U U U U T I MS Qualifier	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           Description           70 - 130           70 - 130           Spike	Result           0.1058           0.1129           0.1179           0.2446           0.1369	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 105 112 117 122 136	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec	Dike Dup Batch: : Dike Dup Type: Tot Batch: :	blicate tal/N/ 31669
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654 Analyte	Result           <0.00202	Qualifier U U U U U F1 MS Qualifier Sample Qualifier	Added 0.100 0.100 0.201 0.100 Limits 70 - 130 70 - 130 70 - 130	Result           0.1058           0.1129           0.1179           0.2446           0.1369	<b>Qualifier</b> F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl Unit		%Rec 105 112 117 122 136 ample IC	Prep T Prep %Rec Limits 70 - 130 70 - 190 %Rec Limits	Dike Dup Dike Dup Dype: Tot Batch: 3	blicate tal/N/ 31669 clicate tal/N/ 31669 RPI Limi
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654 Analyte Benzene	Result           <0.00202	Qualifier U U U U U F1 MS Qualifier U	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           Limits           70 - 130           70 - 130           Spike           Added           0.100	Result           0.1058           0.1129           0.1179           0.2446           0.1369   MSD Result 0.1039	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg CI	ient Sa	%Rec 105 112 117 122 136 ample ID %Rec 104	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Prep %Rec Limits 70 - 130	Dike Dup Type: Tot Dike Dup Type: Tot Batch: 3 2	blicate tal/N/ 31669
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654 Analyte Benzene Toluene	Result           <0.00202	Qualifier U U U U F1 MS Qualifier U U U	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           Description           Spike           Added           0.100           0.100	Result           0.1058           0.1129           0.1179           0.2446           0.1369             MSD           Result           0.1039           0.1039	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 105 112 117 122 136 ample ID %Rec 104 112	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Prep T Prep %Rec Limits 70 - 130 70 - 130	Dike Dup Fype: Tot Dike Dup Fype: Tot Batch: 3 RPD 2 1	blicate tal/NA 31669 blicate tal/NA 31669 RPE Limi 35 35
Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene	Result           <0.00202	Qualifier U U U U U U F 1 MS Qualifier U U U U	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.100           5pike           Added           0.100           0.100	Result           0.1058           0.1129           0.1179           0.2446           0.1369   MSD           Result           0.1039           0.1120           0.1120           0.1218	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 105 112 117 122 136 ample ID %Rec 104 112 122	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Dike Dup Fype: Tot Dike Dup Type: Tot Batch: 3 RPD 2 1 3	blicate tal/NA 31669 blicate tal/NA 31669 RPD Limit 35 35 35
Analysis Batch: 31654 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-2689-A Matrix: Solid Analysis Batch: 31654 Analyte Benzene Toluene	Result           <0.00202	Qualifier U U U U U U F 1 MS Qualifier U U U U U	Added           0.100           0.100           0.100           0.201           0.100           0.201           0.100           0.201           0.100           0.201           0.100           Description           Spike           Added           0.100           0.100	Result           0.1058           0.1129           0.1179           0.2446           0.1369             MSD           Result           0.1039           0.1039	Qualifier F1 MSD Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec 105 112 117 122 136 ample ID %Rec 104 112	Prep T Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Prep T Prep %Rec Limits 70 - 130 70 - 130	Dike Dup Fype: Tot Dike Dup Fype: Tot Batch: 3 RPD 2 1	blicate tal/NA 31669 blicate tal/NA 31669 RPD Limit 35 35

Eurofins Carlsbad

## Job ID: 890-2706-1 SDG: Lea County NM

Client: Ensolum Project/Site: Eata Fajita B CTB

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

Lab Sample ID: 890-2689-A-13 Matrix: Solid							2.101			Matrix Sp Prep 1	Type: T	-
Analysis Batch: 31654											Batch	
analysis batch. 01004										Trop	Duton	
· · · ·	MSD M											
Surrogate		ualifier	Limits									
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	120 94		70 <sub>-</sub> 130 70 <sub>-</sub> 130									
ethod: 8015B NM - Diese		anics (F										
_ab Sample ID: MB 880-31555									Client Sc	ample ID:	Motho	d Blan
Matrix: Solid	/ 1-/-								Cheffit Sc		Гуре: Т	
Analysis Batch: 31531											Batch	
analysis Datch. 51551	м	в мв								Tich	Daten	. 5155
Analyte		It Qualifie	r RI	L	Unit		D	Р	repared	Analyz	red	Dil Fa
Gasoline Range Organics		.0 U	50.0		mg/ł	ίg			5/22 09:50	08/05/22		
GRO)-C6-C10 Diesel Range Organics (Over	<50	.0 U	50.0	0	mg/ł	ίg		08/0	5/22 09:50	08/05/22	20:48	
:10-C28) Ill Range Organics (Over C28-C36)	<50	.0 U	50.0	0	mg/ł	ģ		08/0	5/22 09:50	08/05/22	20:48	
	М	B MB										
Surrogate	%Recove	ry Qualifie	r Limits					P	repared	Analyz	zed	Dil Fa
-Chlorooctane		33	70 - 130	_			-	08/0	5/22 09:50	08/05/22	20:48	
	11	01	70 - 130					08/0	5/22 09:50	08/05/22	20:48	
ab Sample ID: LCS 880-3155 Iatrix: Solid							СІ	ient	Sample		Гуре: Т	otal/N
ab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531			Spike		LCS	Unit	CI		-	Prep 1 Prep %Rec		otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte			Spike Added	Result	Qualifier	Unit	CI	ient	%Rec	Prep 1 Prep %Rec Limits	Гуре: Т	otal/N
p- <i>Terphenyl</i> Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Gasoline Range Organics GRO)-C6-C10			Spike		Qualifier	_ <mark>Unit</mark> mg/Kg	CI		-	Prep 1 Prep %Rec	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Gasoline Range Organics GRO)-C6-C10			Spike Added	Result	Qualifier		CI		%Rec	Prep 1 Prep %Rec Limits	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over			Spike Added 1000	<b>Result</b> 885.3	Qualifier	mg/Kg	CI		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	5/2-A —		Spike Added 1000	<b>Result</b> 885.3	Qualifier	mg/Kg	CI		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	5/2-A		Spike Added 1000	<b>Result</b> 885.3	Qualifier	mg/Kg	CI		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	5/2-A		<b>Spike</b> Added 1000 1000	<b>Result</b> 885.3	Qualifier	mg/Kg	CI		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate -Chlorooctane	5/2-A 		Spike Added 1000 1000 Limits	<b>Result</b> 885.3	Qualifier	mg/Kg	CI		%Rec	Prep 7 Prep %Rec Limits 70 - 130	Гуре: Т	otal/N
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl	5/2-A 		Spike Added 1000 1000 <u>Limits</u> 70 - 130	<b>Result</b> 885.3	Qualifier	mg/Kg		<u>D</u>	<b>%Rec</b> 89 87	Prep 1 Prep %Rec Limits 70 - 130 70 - 130	Гуре: T ) Batch	otal/N. : 3155
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-315	5/2-A 		Spike Added 1000 1000 <u>Limits</u> 70 - 130	<b>Result</b> 885.3	Qualifier	mg/Kg		<u>D</u>	<b>%Rec</b> 89 87	Prep 1 Prep %Rec Limits 70 - 130 70 - 130	Γype: Τ ) Batch 	otal/N. : 3155
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid	5/2-A 		Spike Added 1000 1000 <u>Limits</u> 70 - 130	<b>Result</b> 885.3	Qualifier	mg/Kg		<u>D</u>	<b>%Rec</b> 89 87	Prep 1           %Rec           Limits           70 - 130           70 - 130           70 - Prep 1	Fype: T Batch	ole Du ole Ju
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid	5/2-A 		Spike           Added           1000           1000           1000 <u>Limits</u> 70 - 130           70 - 130	Result 885.3 874.1	Qualifier	mg/Kg		<u>D</u>	<b>%Rec</b> 89 87	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 Prep 1 Prep 1	Γype: Τ ) Batch 	ole Du otal/N. otal/N. : 3155
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate C-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531	5/2-A 		Spike           Added           1000	Result 885.3 874.1	Qualifier	mg/Kg mg/Kg C		D Sam	%Rec 89 87	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Fype: T Batch J Samı Fype: T Batch	ole Du otal/N. : 3155 : 3155 : 3155 RP
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531 Analyte	5/2-A 		Spike           Added           1000	Result 885.3 874.1 LCSD Result	Qualifier	mg/Kg mg/Kg C		<u>D</u>	%Rec 89 87 mple ID: L %Rec	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec Limits	DI Samı Fype: T Batch Samı Fype: T Batch RPD	otal/N. : 3155 
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics	5/2-A 		Spike           Added           1000	Result 885.3 874.1	Qualifier	mg/Kg mg/Kg C		D Sam	%Rec 89 87	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130	Fype: T Batch J Samı Fype: T Batch	ole Du otal/N. 3155 
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	5/2-A 		Spike           Added           1000	Result 885.3 874.1 LCSD Result	Qualifier LCSD Qualifier	mg/Kg mg/Kg C		D Sam	%Rec 89 87 mple ID: L %Rec	Prep 1 Prep %Rec Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 %Rec Limits	DI Samı Fype: T Batch Samı Fype: T Batch RPD	ole Du otal/N. 3155 
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28) Surrogate -Chlorooctane -Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531 Malyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over	5/2-A 	CS ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           Spike           Added           1000	Result           885.3           874.1           LCSD           Result           855.1	Qualifier LCSD Qualifier	Cl Unit mg/Kg		D Sam	%Rec	Prep 1 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 ab Contro Prep 1 Prep 2 %Rec Limits 70 - 130	DI Samp Type: T Di Batch Satch RPD 3	ole Du otal/N. 3155 
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate C-Chlorooctane D-Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531	5/2-A 	CS ualifier	Spike           Added           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           1000           Spike           Added           1000	Result           885.3           874.1           LCSD           Result           855.1	Qualifier LCSD Qualifier	Cl Unit mg/Kg		D Sam	%Rec	Prep 1 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 ab Contro Prep 1 Prep 2 %Rec Limits 70 - 130	DI Samp Type: T Di Batch Satch RPD 3	ole Du otal/N. : 3155 : 3155 : 3155 : 3155 RP <u>Lim</u> 2
Lab Sample ID: LCS 880-3155 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate - Chlorooctane - Terphenyl Lab Sample ID: LCSD 880-315 Matrix: Solid Analysis Batch: 31531 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	5/2-A 	CS ualifier	Spike           Added           1000           1000           1000           1000           Limits           70 - 130           70 - 130           70 - 130           1000           Limits           1000           1000           1000	Result           885.3           874.1           LCSD           Result           855.1	Qualifier LCSD Qualifier	Cl Unit mg/Kg		D Sam	%Rec	Prep 1 Prep % %Rec Limits 70 - 130 70 - 130 70 - 130 ab Contro Prep 1 Prep 2 %Rec Limits 70 - 130	DI Samp Type: T Di Batch Satch RPD 3	ole Du otal/N. 3155 
#### **QC Sample Results**

Spike

Added

999

999

Limits 70 - 130

70 - 130

Spike

70 - 130

Client: Ensolum Project/Site: Eata Fajita B CTB

Lab Sample ID: 890-2706-1 MS

Lab Sample ID: 890-2706-1 MSD

Analysis Batch: 31531

Gasoline Range Organics

Diesel Range Organics (Over

Matrix: Solid

(GRO)-C6-C10

Analyte

C10-C28)

Surrogate

o-Terphenyl

Analyte

C10-C28)

Surrogate 1-Chlorooctane

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analysis Batch: 31531

Gasoline Range Organics (GRO)-C6-C10

**Diesel Range Organics (Over** 

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

Sample Sample

<49.9 U

92.2 F1

MS MS

68 S1-

67 S1-

Sample Sample

65 S1-

%Recovery Qualifier

Result Qualifier

**Client Sample ID: SS01** 

%Rec

Limits

70 - 130

70 - 130

Prep Type: Total/NA

Prep Batch: 31555

20

20

Client Sample ID: SS01
Prep Type: Total/NA
Prep Batch: 31555
% Rec BDC

	1 TOP	.,po. 10	
	Prep	Batch:	31555
	%Rec		RPD
c	Limits	RPD	Limit

Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD
<49.9	U	999	850.8		mg/Kg		83	70 - 130	2
92.2	F1	999	643.6	F1	mg/Kg		55	70 - 130	3
MSD	MSD								
%Recovery	Qualifier	Limits							
 63	S1-	70 - 130							

MSD MSD

MS MS

833.2

666.4 F1

Result Qualifier

Unit

mg/Kg

mg/Kg

D

%Rec

81

<u> </u>		
Method: 300.0 - An	ions, Ion Chromatog	raphy

Lab Sample ID: MB 880-31559/1-A Matrix: Solid									Client S	Sample ID: Met Prep Typ	hod Blank e: Soluble
Analysis Batch: 31937	мв	мв									
Analyte		Qualifier		RL		Unit		DF	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U		5.00		mg/K	g			08/12/22 03:4	6 1
Lab Sample ID: LCS 880-31559/2-A								Clien	t Sample	ID: Lab Cont	ol Sample
Matrix: Solid										Prep Typ	e: Soluble
Analysis Batch: 31937											
			Spike		LCS	LCS				%Rec	
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250		245.2		mg/Kg		98	90 - 110	
_ Lab Sample ID: LCSD 880-31559/3-A							CI	ient Sar	nple ID:	Lab Control Sa	ample Dup
Matrix: Solid										Prep Typ	e: Soluble
Analysis Batch: 31937											
			Spike		LCSD	LCSD				%Rec	RPD
Analyte			Added		Result	Qualifier	Unit	D	%Rec	Limits	RPD Limi
Chloride			250		247.1		mg/Kg		99	90 - 110	1 20

#### Job ID: 890-2706-1 SDG: Lea County NM

Client: Ensolum Project/Site: Eata Fajita B CTB

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-17771-A-1-C	<b>//S</b>							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 31937											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	123		250	380.3		mg/Kg		103	90 - 110		
Lab Sample ID: 880-17771-A-1-D M	ISD					Cli	ient Sa	ample II	D: Matrix S	oike Dup	olicate
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 31937											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride	123		250	388.2		mg/Kg		106	90 - 110	2	20
Lab Sample ID: 890-2706-3 MS									Client Sa	mple ID:	SS03
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 31937											
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	198	F1	250	448.2		mg/Kg		100	90 - 110		
Lab Sample ID: 890-2706-3 MSD									Client Sa	mple ID:	<b>SS0</b> 3
Matrix: Solid									Prep	Type: So	oluble
Analysis Batch: 31937										-	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Chloride	198	F1	250	480.5	F1	mg/Kg		113	90 - 110	7	20

#### **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

5 6

Job ID: 890-2706-1 SDG: Lea County NM

#### **GC VOA**

#### Prep Batch: 31602

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-2706-1	SS01	Total/NA	Solid	5035	
890-2706-2	SS02	Total/NA	Solid	5035	
890-2706-3	SS03	Total/NA	Solid	5035	
MB 880-31602/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31602/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31602/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2703-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2703-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 31654

890-2703-A-1-C MS	Matrix Spike	Total/NA	Solid	5035		-
890-2703-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035		8
Analysis Batch: 31654						9
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-2706-1	SS01	Total/NA	Solid	8021B	31602	
890-2706-2	SS02	Total/NA	Solid	8021B	31602	
890-2706-3	SS03	Total/NA	Solid	8021B	31602	
MB 880-31602/5-A	Method Blank	Total/NA	Solid	8021B	31602	
MB 880-31669/5-A	Method Blank	Total/NA	Solid	8021B	31669	
LCS 880-31602/1-A	Lab Control Sample	Total/NA	Solid	8021B	31602	
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	8021B	31669	40
LCSD 880-31602/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31602	13
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	31669	
890-2689-A-13-E MS	Matrix Spike	Total/NA	Solid	8021B	31669	
890-2689-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31669	
890-2703-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	31602	
890-2703-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	31602	

#### Prep Batch: 31669

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-31669/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-31669/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-31669/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2689-A-13-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2689-A-13-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 31804

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2706-1	SS01	Total/NA	Solid	Total BTEX	
890-2706-2	SS02	Total/NA	Solid	Total BTEX	
890-2706-3	SS03	Total/NA	Solid	Total BTEX	
<u> </u>					

#### GC Semi VOA

#### Analysis Batch: 31531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2706-1	SS01	Total/NA	Solid	8015B NM	31555
890-2706-2	SS02	Total/NA	Solid	8015B NM	31555
890-2706-3	SS03	Total/NA	Solid	8015B NM	31555
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015B NM	31555
LCS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	31555
LCSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	31555
890-2706-1 MS	SS01	Total/NA	Solid	8015B NM	31555
890-2706-1 MSD	SS01	Total/NA	Solid	8015B NM	31555

Eurofins Carlsbad

#### **QC** Association Summary

Client: Ensolum Project/Site: Eata Fajita B CTB Page 40 of 134

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#### Job ID: 890-2706-1 SDG: Lea County NM

#### GC Semi VOA

#### Prep Batch: 31555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2706-1	SS01	Total/NA	Solid	8015NM Prep	
390-2706-2	SS02	Total/NA	Solid	8015NM Prep	
390-2706-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-31555/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
CS 880-31555/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
_CSD 880-31555/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
390-2706-1 MS	SS01	Total/NA	Solid	8015NM Prep	
390-2706-1 MSD	SS01	Total/NA	Solid	8015NM Prep	

#### Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 890-2706-1 SS01 Total/NA Solid 8015 NM SS02 890-2706-2 Total/NA Solid 8015 NM 890-2706-3 SS03 Total/NA Solid 8015 NM

#### HPLC/IC

#### Leach Batch: 31559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2706-1	SS01	Soluble	Solid	DI Leach	
890-2706-2	SS02	Soluble	Solid	DI Leach	
890-2706-3	SS03	Soluble	Solid	DI Leach	
MB 880-31559/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-31559/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-31559/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-17771-A-1-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-17771-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2706-3 MS	SS03	Soluble	Solid	DI Leach	
890-2706-3 MSD	SS03	Soluble	Solid	DI Leach	

#### Analysis Batch: 31937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2706-1	SS01	Soluble	Solid	300.0	31559
890-2706-2	SS02	Soluble	Solid	300.0	31559
890-2706-3	SS03	Soluble	Solid	300.0	31559
MB 880-31559/1-A	Method Blank	Soluble	Solid	300.0	31559
LCS 880-31559/2-A	Lab Control Sample	Soluble	Solid	300.0	31559
LCSD 880-31559/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	31559
880-17771-A-1-C MS	Matrix Spike	Soluble	Solid	300.0	31559
880-17771-A-1-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	31559
890-2706-3 MS	SS03	Soluble	Solid	300.0	31559
890-2706-3 MSD	SS03	Soluble	Solid	300.0	31559

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Job ID: 890-2706-1 SDG: Lea County NM

#### Lab Sample ID: 890-2706-1 Matrix: Solid

Lab Sample ID: 890-2706-2

Lab Sample ID: 890-2706-3

Matrix: Solid

Matrix: Solid

Client Sample ID: SS01 Date Collected: 08/02/22 12:30 Date Received: 08/02/22 15:53

Project/Site: Eata Fajita B CTB

Client: Ensolum

	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	31602	08/05/22 13:42	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/07/22 19:35	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31804	08/08/22 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			31750	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/05/22 21:54	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	31559	08/05/22 10:29	СН	EET MID
Soluble	Analysis	300.0		5			31937	08/12/22 06:05	AJ	EET MID

#### Client Sample ID: SS02

#### Date Collected: 08/02/22 12:40

Date Received: 08/02/22 15:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	31602	08/05/22 13:42	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	31654	08/07/22 19:56	EL	EET MID
Total/NA	Analysis	Total BTEX		1			31804	08/08/22 16:27	SM	EET MID
Total/NA	Analysis	8015 NM		1			31750	08/08/22 11:58	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	31555	08/05/22 09:50	DM	EET MID
Total/NA	Analysis	8015B NM		1			31531	08/05/22 22:58	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	31559	08/05/22 10:29	СН	EET MID
Soluble	Analysis	300.0		5			31937	08/12/22 06:14	AJ	EET MID

#### Client Sample ID: SS03

#### Date Collected: 08/02/22 12:50 Date Received: 08/02/22 15:53

#### Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 4.99 g 5 mL 31602 08/05/22 13:42 MR EET MID 8021B Total/NA Analysis 1 5 mL 5 mL 31654 08/07/22 20:16 EL EET MID Total/NA Analysis Total BTEX 31804 08/08/22 16:27 SM EET MID 1 Total/NA Analysis 8015 NM 1 31750 08/08/22 11:58 SM EET MID Total/NA DM Prep 8015NM Prep 10.01 g 10 mL 31555 08/05/22 09:50 EET MID Total/NA Analysis 8015B NM 31531 08/06/22 04:02 SM EET MID 1 Soluble Leach **DI Leach** 5.01 g 50 mL 31559 08/05/22 10:29 CH EET MID Soluble Analysis 300.0 1 31937 08/12/22 06:23 AJ EET MID

#### Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Project/Site: Eata Fajita B CTB

#### Laboratory: Eurofins Midland

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

hority	P	rogram	Identification Number	Expiration Date
as	N	IELAP	T104704400-22-24	06-30-23
The following analytes	are included in this report, b	out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for v
the agency does not o				
the agency does not o Analysis Method	fer certification. Prep Method	Matrix	Analyte	
6 ,		Matrix Solid	Analyte Total TPH	

Job ID: 890-2706-1 SDG: Lea County NM

2706-1 ity NM 2 3 4

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Eurofins Carlsbad

#### **Method Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

Job ID: 890-2706-1 SDG: Lea County NM

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
01 Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

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

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-2706-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2706-1	SS01	Solid	08/02/22 12:30	08/02/22 15:53	0.5
890-2706-2	SS02	Solid	08/02/22 12:40	08/02/22 15:53	0.5
890-2706-3	SS03	Solid	08/02/22 12:50	08/02/22 15:53	0.5

				Hobb	IS, NM (	575) 39	2-7550	Carlsbad, NM	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199					-
						Valai	Inning	2			Work Order (	g	ments	9
	Encolum			Company Name	2	E nen	Encolum			Program: UST/PST	PST PRP	PRP Brownfields RRC	RC	Superfund
Address:	3122 National Parks HWY	arks HWY		Address:	1	3122 Nat	Nationa	3122 National Parks HWY		State of Project:	ſ	(		
e ZIP:	Carlsbad, NM 88220	8220	0	City, State ZIP:		Carlst	Carlsbad, NM 88220	88220		Reporting: Level II CLevel III PST/UST TRRP	🗌 Level	I PST/UST		
	817-683-2503		Email: k	Email: kjennings@ensolum.com	Isolum	1.com				Deliverables: EDD		ADaPT	Other:	
Name.	Fata Fai	Eata Faiita B CTB	Turn	Turn Around					ANALYSIS REC	REQUEST			Preservative Codes	re Codes
Project Number:	03D2	03D2024075	Routine	Rush	Pres. Code							None	None: NO	DI Water: H <sub>2</sub> O
Project Location:	Lea Co	Lea County, NM	Due Date:	5 Day TAT					-	-	_	Cool	⊻.	MeOH: Me
Sampler's Name:	Gilbert	Gilbert Moreno	TAT starts the	TAT starts the day received by	I							HCL: HC		HNO3: HN
CC #.			the lab, if rece	the lab, if received by 4:30pm	ers							H <sub>2</sub> S(	H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	T Jemp Blank:	ank: Yes No	Wet Ice:	(Yes) No	mete	).0)						H <sub>3</sub> P(	H <sub>3</sub> PO <sub>4</sub> : HP	
Samples Received Intact:	Yes	No Thermometer ID:	1	NM.DOA	arai	300			2 =	of Custody		NaH	NaHSU4: NABIS	
Cooler Custody Seals:	Yes No	MA Correction Factor:	Factor:	-02	P	PA				( Juniou)		Nazt	Na2S2U3: NASU3	1
Sample Custody Seals:	s: Yes No	WA Temperatu	emperature Reading:			S (E		1		_	_		Zn Acetate+NaUH: Zn	1: 2n
Total Containers:		Corrected	Corrected Temperature:	3.0		RIDE	015)	(802				NaO	NaOH+Ascorbic Acid: SAPC	Acid: SAPC
Sample Identification		Matrix Date Sampled	Time Sampled	Depth Comp	# of Cont	CHLO	TPH (8	BTEX					Sample Comments	omments
SS01		S 8.4.22 G	12:30	0.5' Grab/	1	×	×	×					,	
SS02			12:40		1	×	×	×						
SS03		S 8.7.22 C	12:50	0.5' Grab/		×	×	×					Incident Numbers	lumbers
													NAPP2220244157	0244157
				2										
				-		200	-164							
				And h	1	1								
		+						_		-				
Total 200.7 / 6010	10 200.8 / 6020:	)20:	8RCRA 13PPM	PM Texas 11	1 2		s Ba E	Be B Cd C	I	Mg Mn Mo Ni	K Se /	SIO2 Na Sr		/ Zn
Circle Method(s) and Metai(s) to be analyzed	d Metai(s) to be	) analyzed	ICLY / SP	ICLY / SPLP BUID. ORCRA		00 7	No Da				tame and cond			
Notice: Signature of this d of service. Eurofins Xenco of Eurofins Xenco. A mini	ocument and relinqu o will be liable only for mum charge of \$85.0	ishment of samples co or the cost of samples 10 will be applied to ea	onstitutes a valid pu and shall not assu ch project and a ch	urchase order fror me any responsibi arge of \$5 for eacl	m client ility for h sampl	compan any loss e submit	es or exp tted to Eu	rofins Xenco, its rofins Xenco, I	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	<ul> <li>It assigns standard are due to circumstan is will be enforced unit</li> </ul>	terms and cond ces beyond the e ess previously n	control legotlated.		
Relinquished by: (Signature)	(Signature)	A. Receiv	Received by: (Signature)	ure)		Date,	Date/Time	Re	Relinquished by: (Signature)	ture) Re	Received by: (Signature)	Signature)	D	Date/Time
1 ( Main	3	1 MM (	VH-		N.	むむ	2 5	1558						
3					-			4						

# Chain of Custody

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

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4 5 6

11 12 13

the eurofins

**Environment Testing** 

Released to Imaging: 4/19/2023 2:40:24 PM

Job Number: 890-2706-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

#### Login Sample Receipt Checklist

Client: Ensolum

#### Login Number: 2706 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Job Number: 890-2706-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 08/04/22 10:22 AM

#### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2706 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 10/10/2022 9:37:28 AM

LINKS

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#### Environment Testing America

#### **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-2985-1

Laboratory Sample Delivery Group: Lea County NM Client Project/Site: Eata Fajita B CTB

#### For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 9/27/2022 1:32:58 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 signature.

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

Laboratory Job ID: 890-2985-1 SDG: Lea County NM

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	Definitions/Glossary	
Client: Ensolum Project/Site: Ea	n Job ID: 890-2985-1 ata Fajita B CTB SDG: Lea County NM	2
Qualifiers	·	3
GC VOA		
Qualifier	Qualifier Description	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	5
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA Qualifier	Qualifier Description	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		9
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	9
Glossary		
Abbreviation	These commonly used abbreviations may or may not be present in this report.	
<u>n</u>	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)	13
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	

RL RPD

TEF

TEQ

TNTC

Reporting Limit or Requested Limit (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

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

4

Job ID: 890-2985-1 SDG: Lea County NM

#### Job ID: 890-2985-1

Client: Ensolum

#### Laboratory: Eurofins Carlsbad

Project/Site: Eata Fajita B CTB

#### Narrative

Job Narrative 890-2985-1

#### Receipt

The samples were received on 9/15/2022 4:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-2985-1), BH01A (890-2985-2), BH01B (890-2985-3), BH01C (890-2985-4), BH01D (890-2985-5), (LCS 880-35201/1-A), (LCSD 880-35201/2-A), (890-2967-A-1-E), (890-2967-A-1-C MS) and (890-2967-A-1-D MSD). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

Method 8015MOD\_NM: The method blank for preparation batch 880-34747 and analytical batch 880-34755 contained Gasoline Range Organics (GRO)-C6-C10 and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-34747/2-A) and (LCSD 880-34747/3-A). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

<0.00200 U

<0.00200 U

<0.00200 U

<0.00399 U

<0.00200 U

<0.00399 U

RL

0.00200

0.00200

0.00200

0.00399

0.00200

0.00399

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

D

Prepared

09/22/22 15:58

09/22/22 15:58

09/22/22 15:58

09/22/22 15:58

09/22/22 15:58

09/22/22 15:58

Job ID: 890-2985-1 SDG: Lea County NM

#### **Client Sample ID: BH01**

Date Collected: 09/15/22 09:50 Date Received: 09/15/22 16:49

Project/Site: Eata Fajita B CTB

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

#### Lab Sample ID: 890-2985-1 Matrix: Solid

Analyzed

09/26/22 22:51

09/26/22 22:51

09/26/22 22:51

09/26/22 22:51

09/26/22 22:51

09/26/22 22:51

Dil Fac

1

1

1

1

5

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130			09/22/22 15:58	09/26/22 22:51	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/22/22 15:58	09/26/22 22:51	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fotal BTEX	<0.00399	U	0.00399	mg/Kg			09/27/22 14:06	1
Method: 8015 NM - Diesel Rang	e Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
otal TPH	<49.9	U	49.9	mg/Kg			09/20/22 09:06	1
Method: 8015B NM - Diesel Ran	ige Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:02	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			09/19/22 08:27	09/19/22 18:02	1
p-Terphenyl	86		70 - 130			09/19/22 08:27	09/19/22 18:02	1
		Soluble						
Method: 300.0 - Anions, Ion Chr	romatography -	Joiuble						
		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			<b>RL</b> 4.99	Unit mg/Kg	<u> </u>	Prepared	Analyzed 09/21/22 07:27	Dil Fac
Analyte Chloride	Result				<u> </u>			1
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55	Result				<u> </u>		09/21/22 07:27	1
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49	Result				<u> </u>		09/21/22 07:27	1 2985-2
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49 ample Depth: 1'	Result 11.7	Qualifier			<u> </u>		09/21/22 07:27	1 2985-2
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49 ample Depth: 1' Method: 8021B - Volatile Organi	ic Compounds (	Qualifier			<u>D</u>		09/21/22 07:27	1 2985-2
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49 ample Depth: 1' Method: 8021B - Volatile Organi Analyte	ic Compounds (	Qualifier (GC) Qualifier	4.99	mg/Kg		Lab San	09/21/22 07:27 nple ID: 890-2 Matri	1 2985-2 x: Solid
Analyte Chloride lient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49 ample Depth: 1' Method: 8021B - Volatile Organi Analyte Benzene	ic Compounds (	Qualifier (GC) Qualifier U	4.99	mg/Kg		Lab San	09/21/22 07:27 nple ID: 890-2 Matri	1 2985-2 x: Solid Dil Fac
Method: 300.0 - Anions, Ion Chr Analyte Chloride Ilient Sample ID: BH01A ate Collected: 09/15/22 09:55 ate Received: 09/15/22 16:49 ample Depth: 1' Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene	ic Compounds ( <u>Result</u> <u>Result</u> <0.00199	Qualifier GC) Qualifier U U	4.99	mg/Kg		Lab San Prepared 09/22/22 15:58	09/21/22 07:27  nple ID: 890-2 Matri:  Analyzed 09/26/22 23:17	1 2985-2 x: Solid Dil Fac

#### Toluene Ethylbenzene m-Xylene & p <0.00199 U 0.00199 09/26/22 23:17 o-Xylene mg/Kg 09/22/22 15:58 1 Xylenes, Total <0.00398 U 0.00398 09/22/22 15:58 09/26/22 23:17 mg/Kg 1 %Recovery Qualifier Limits Prepared Surrogate Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 161 S1+ 70 - 130 09/22/22 15:58 09/26/22 23:17

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**Released to Imaging: 4/19/2023 2:40:24 PM** 

#### **Client Sample Results**

Job ID: 890-2985-1 SDG: Lea County NM

#### Lab Sample ID: 890-2985-2

Matrix: Solid

5

Date Collected: 09/15/22 09:55 Date Received: 09/15/22 16:49

Project/Site: Eata Fajita B CTB

**Client Sample ID: BH01A** 

Sample Depth: 1'

Client: Ensolum

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	72		70 - 130			09/22/22 15:58	09/26/22 23:17	1
Method: Total BTEX - Total BTEX	Colouistion							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX			0.00398			Flepaleu	09/27/22 14:06	
IOTAL BIEX	<0.00398	0	0.00398	mg/Kg			09/2//22 14.00	
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			09/20/22 09:06	1
Method: 8015B NM - Diesel Rang					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/19/22 08:27	09/19/22 18:23	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/19/22 08:27	09/19/22 18:23	
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/19/22 08:27	09/19/22 18:23	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130			09/19/22 08:27	09/19/22 18:23	
o-Terphenyl	91		70 - 130			09/19/22 08:27	09/19/22 18:23	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15.1		5.02	mg/Kg			09/21/22 07:42	1
lient Sample ID: BH01B						Lab Sar	nple ID: 890-	2985-3
ate Collected: 09/15/22 10:00							•	x: Solid
ate Received: 09/15/22 16:49								
ample Depth: 2'								
• •								
Method: 8021B - Volatile Organic	: Compounds (	(GC)						
		GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			RL 0.00199	Unit mg/Kg	<u>D</u>	Prepared 09/22/22 15:58	Analyzed	
Analyte	Result	Qualifier			<u>D</u>	· · · · · · · · · · · · · · · · · · ·		
Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene	Result <0.00199	Qualifier U U	0.00199	mg/Kg	<u>D</u>	09/22/22 15:58	09/26/22 23:43	Dil Fac 1 1 1

<0.00199 U

<0.00398 U

169 S1+

74

Result Qualifier

U

Result Qualifier

<49.9 U

Qualifier

%Recovery

<0.00398

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Xylenes, Total

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

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#### Released to Imaging: 4/19/2023 2:40:24 PM

Method: Total BTEX - Total BTEX Calculation

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

0.00199

0.00398

Limits

70 - 130

70 - 130

RL

RL

49.9

0.00398

mg/Kg

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

09/22/22 15:58

09/22/22 15:58

Prepared

09/22/22 15:58

09/22/22 15:58

Prepared

Prepared

D

D

09/26/22 23:43

09/26/22 23:43

Analyzed

09/26/22 23:43

09/26/22 23:43

Analyzed

09/27/22 14:06

Analyzed

09/20/22 09:06

1

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

#### **Client Sample Results**

Job ID: 890-2985-1 SDG: Lea County NM

#### **Client Sample ID: BH01B**

Project/Site: Eata Fajita B CTB

Date Collected: 09/15/22 10:00 Date Received: 09/15/22 16:49

Sample Depth: 2'

Client: Ensolum

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:44	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:44	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 18:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			09/19/22 08:27	09/19/22 18:44	1
o-Terphenyl	89		70 - 130			09/19/22 08:27	09/19/22 18:44	1

#### 5.04 09/21/22 07:46 Chloride 16.7 mg/Kg

#### **Client Sample ID: BH01C**

#### Date Collected: 09/15/22 10:15 Date Received: 09/15/22 16:49

Sample Depth: 4'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/22/22 15:58	09/27/22 00:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	70 - 130			09/22/22 15:58	09/27/22 00:09	1
1,4-Difluorobenzene (Surr)	67	S1-	70 - 130			09/22/22 15:58	09/27/22 00:09	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			09/27/22 14:06	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/20/22 09:06	1
Method: 8015B NM - Diesel Range	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 19:05	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/19/22 08:27	09/19/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			09/19/22 08:27	09/19/22 19:05	1

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		Clien	t Sample Re	sults				
Client: Ensolum		-					Job ID: 890	)-2985-1
Project/Site: Eata Fajita B CTB							SDG: Lea Co	
Client Sample ID: BH01C						Lab Sar	nple ID: 890-	2985-4
Date Collected: 09/15/22 10:15								ix: Solid
Date Received: 09/15/22 16:49								
Sample Depth: 4'								
—								
Method: 300.0 - Anions, Ion Chro	• • • •				_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	114		4.97	mg/Kg			09/21/22 08:01	1
Client Sample ID: BH01D						Lab Sar	nple ID: 890-	2985-5
Date Collected: 09/15/22 10:20							-	ix: Solid
Date Received: 09/15/22 16:49								
Sample Depth: 8'								
	_							
Method: 8021B - Volatile Organic		GC) Qualifier	В	11-14		Dremered	Analyzad	
Analyte Benzene	- <u>- &lt;0.00200</u>		RL	Unit mg/Kg	D	Prepared 09/22/22 15:58	Analyzed 09/27/22 00:34	Dil Fac
Toluene	<0.00200		0.00200	mg/Kg		09/22/22 15:58	09/27/22 00:34	1
Ethylbenzene	<0.00200		0.00200	mg/Kg		09/22/22 15:58	09/27/22 00:34	1
m-Xylene & p-Xylene	< 0.00399		0.00399	mg/Kg		09/22/22 15:58	09/27/22 00:34	
o-Xylene	< 0.00200		0.00200	mg/Kg		09/22/22 15:58	09/27/22 00:34	1
Xylenes, Total	< 0.00399		0.00399	mg/Kg		09/22/22 15:58	09/27/22 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/22/22 15:58	09/27/22 00:34	1
1,4-Difluorobenzene (Surr)	68	S1-	70 _ 130			09/22/22 15:58	09/27/22 00:34	1
Method: Total BTEX - Total BTEX		Qualifiar	Ы	Unit	D	Bronorod	Applyrod	Dil Ecc
Analyte Total BTEX		Qualifier	RL	Unit mg/Kg		Prepared	Analyzed 09/27/22 14:06	Dil Fac
	<0.00399	0	0.00399	iiig/itg			09/27/22 14:00	
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			09/20/22 09:06	1
- Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg		09/19/22 08:27	09/19/22 19:26	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/19/22 08:27	09/19/22 19:26	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/19/22 08:27	09/19/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane		Quanner				09/19/22 08:27	09/19/22 19:26	1
o-Terphenyl	90		70 - 130			09/19/22 08:27	09/19/22 19:26	1
_								
Method: 300.0 - Anions, Ion Chro					_	<b>_</b> .		<b>.</b>
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	100		4.95	mg/Kg			09/21/22 08:06	1

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-2967-A-1-C MS	Matrix Spike	139 S1+	84		
890-2967-A-1-D MSD	Matrix Spike Duplicate	158 S1+	76		6
890-2985-1	BH01	159 S1+	75		
890-2985-2	BH01A	161 S1+	72		
890-2985-3	BH01B	169 S1+	74		
890-2985-4	BH01C	164 S1+	67 S1-		8
890-2985-5	BH01D	139 S1+	68 S1-		
LCS 880-35201/1-A	Lab Control Sample	145 S1+	77		0
LCSD 880-35201/2-A	Lab Control Sample Dup	145 S1+	81		3
MB 880-35201/5-A	Method Blank	105	73		
Surrogate Legend					

#### rogate Legent

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

latrix:	Solid	
-		

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-2984-A-1-B MS	Matrix Spike	84	78
890-2984-A-1-C MSD	Matrix Spike Duplicate	84	78
890-2985-1	BH01	86	86
890-2985-2	BH01A	90	91
890-2985-3	BH01B	90	89
890-2985-4	BH01C	90	89
890-2985-5	BH01D	90	90
LCS 880-34747/2-A	Lab Control Sample	166 S1+	176 S1+
LCSD 880-34747/3-A	Lab Control Sample Dup	186 S1+	200 S1+
MB 880-34747/1-A	Method Blank	91	98

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

#### Prep Type: Total/NA

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#### Job ID: 890-2985-1 SDG: Lea County NM

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Project/Site: Eata Fajita B CTB Method: 8021B - Volatile Organic Compounds (GC)

#### Lab Sample ID: MB 880-35201/5-A

Matrix: Solid Analysis Batch: 35400

Client: Ensolum

Analysis Batch: 35400							Prep Batcl	n: <b>35201</b>
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/22 15:58	09/26/22 16:21	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			09/22/22 15:58	09/26/22 16:21	1
1,4-Difluorobenzene (Surr)	73		70 - 130			09/22/22 15:58	09/26/22 16:21	1

#### Lab Sample ID: LCS 880-35201/1-A Matrix: Solid

#### Analysis Batch: 35400

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.09437		mg/Kg		94	70 - 130
Toluene	0.100	0.09120		mg/Kg		91	70 - 130
Ethylbenzene	0.100	0.08650		mg/Kg		86	70 - 130
m-Xylene & p-Xylene	0.200	0.1779		mg/Kg		89	70 - 130
o-Xylene	0.100	0.08829		mg/Kg		88	70 - 130

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	77		70 - 130

#### Lab Sample ID: LCSD 880-35201/2-A

#### Matrix: Solid

Analysis Batch: 35400					Pre				ep Batch: 35201		
	Spike	LCSD	LCSD				%Rec		RPD		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		
Benzene	0.100	0.1045		mg/Kg		104	70 - 130	10	35		
Toluene	0.100	0.09825		mg/Kg		98	70 - 130	7	35		
Ethylbenzene	0.100	0.09410		mg/Kg		94	70 - 130	8	35		
m-Xylene & p-Xylene	0.200	0.1928		mg/Kg		96	70 - 130	8	35		
o-Xylene	0.100	0.09350		mg/Kg		94	70 - 130	6	35		

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

#### Lab Sample ID: 890-2967-A-1-C MS

#### Matrix: Solid

Analysis Batch: 35400									Prep	o Batch: 35201
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09418		mg/Kg		94	70 - 130	
Toluene	<0.00199	U	0.0998	0.09072		mg/Kg		91	70 - 130	

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

#### Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 35201

9/27/2022

Lab Sample ID: 890-2967-A-1-C MS

#### **QC Sample Results**

MS MS

Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

Result

0.08468

0.1721

0.08290

Spike

Added

0.0998

0.200

0.0998

Limits

70 - 130

70 - 130

70 - 130

70 - 130

Client: Ensolum Project/Site: Eata Fajita B CTB

Matrix: Solid

Analyte

o-Xylene

Surrogate

Matrix: Solid

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 35400

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

Sample Sample

<0.00199

%Recovery

<0.00398 U

<0.00199 U

139 S1+

84

**Result Qualifier** 

U

MS MS

158 S1+

76

Qualifier

%Rec

Limits

70 - 130

70 - 130

70 - 130

**Client Sample ID: Matrix Spike Duplicate** 

**Client Sample ID: Method Blank** 

Analvzed

09/19/22 12:04

09/19/22 12:04

09/19/22 12:04

Analyzed

09/19/22 12:04

09/19/22 12:04

Client Sample ID: Lab Control Sample

Prepared

Prepared

Prep Type: Total/NA

Prep Batch: 34747

Dil Fac

1

1

1

1

1

Dil Fac

Prep Type: Total/NA

%Rec

85

86

83

D

## **Client Sample ID: Matrix Spike** Prep Type: Total/NA Prep Batch: 35201

Lab Sample ID: 890-2967-A-1-D MSD

#### Analysis Batch: 35400

4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Analysis Batch: 35400									Prep	Batch:	35201
	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	0.1195		mg/Kg		119	70 - 130	24	35
Toluene	<0.00199	U	0.100	0.1144		mg/Kg		114	70 - 130	23	35
Ethylbenzene	<0.00199	U	0.100	0.1108		mg/Kg		110	70 - 130	27	35
m-Xylene & p-Xylene	<0.00398	U	0.201	0.2260		mg/Kg		113	70 - 130	27	35
o-Xylene	<0.00199	U	0.100	0.1100		mg/Kg		110	70 - 130	28	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								

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

#### Lab Sample ID: MB 880-34747/1-A Matrix: Solid Analysis Batch: 34755 MB MB Result Qualifier RL Unit D Analyte <50.0 U 50.0 09/19/22 08:27 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 50.0 09/19/22 08:27 <50.0 U mg/Kg C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 09/19/22 08:27 mg/Kg MB MB %Recovery Qualifier Limits Surrogate 1-Chlorooctane 91 70 - 130 09/19/22 08:27 98 70 - 130 09/19/22 08:27 o-Terphenyl

#### Lab Sample ID: LCS 880-34747/2-A Matrix: Solid - 1-

Analysis Batch: 34755							Prep Ba	atch: 34747
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	868.7		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	774.2		mg/Kg		77	70 - 130	
C10-C28)								

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Prep Type: Total/NA

#### **QC Sample Results**

Client: Ensolum Project/Site: Eata Fajita B CTB

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

	747/2 4				,		Olion	Comula		antral C	
Lab Sample ID: LCS 880-34 Matrix: Solid	/4// <b>Z-A</b>						Client	Sample	ID: Lab C		-
										Type: To	
Analysis Batch: 34755									Prep	Batch:	34/4/
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	176	S1+	70 - 130								
_ Lab Sample ID: LCSD 880-3	4747/3-A					Clier	nt San	nple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid										· Type: To	
Analysis Batch: 34755										Batch:	
			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	920.7		mg/Kg		92	70 - 130	6	20
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)			1000	834.1		mg/Kg		83	70 - 130	7	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	200	S1+	70 _ 130								
- Lab Sample ID: 890-2984-A-	-1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: To	tal/NA
Analysis Batch: 34755										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9		996	886.6		mg/Kg		87	70 - 130		
(GRO)-C6-C10						0 0					
Diesel Range Organics (Over	<49.9	U	996	711.5		mg/Kg		71	70 - 130		
C10-C28)											
	MS	MS									
Survey and the	%Recovery		Linsite								
Surrogate 1-Chlorooctane	<u>%Recovery</u> 84	Quaimer									
o-Terphenyl	78		70 - 130								
Lab Sample ID: 890-2984-A-	-1-C MSD					CI	ient S	ample IC	): Matrix S	oike Dup	licate
Matrix: Solid									Prep	Type: To	tal/NA
Analysis Batch: 34755										Batch:	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9		999	887.2		mg/Kg		87	70 - 130		20
(GRO)-C6-C10						5.15				-	_,
Diesel Range Organics (Over	<49.9	U	999	717.5		mg/Kg		72	70 - 130	1	20
C10-C28)											
	Men	MSD									
Surrogate	wsb %Recovery		Limits								

5

Job ID: 890-2985-1 SDG: Lea County NM

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84

78

1-Chlorooctane

o-Terphenyl

70 - 130

70 \_ 130

Project/Site: Eata Fajita B CTB

Client: Ensolum

#### **QC Sample Results**

Job ID: 890-2985-1 SDG: Lea County NM

#### Method: 300.0 - Anions, Ion Chromatography

· · · · · · · · · · · · · · · · · · ·														
Lab Sample ID: MB 880-34588/1-A											Client S	Sample ID:		
Matrix: Solid												Prep	Type: S	soluble
Analysis Batch: 34947														
	_	MB							_	_			<u>.</u>	
Analyte			Qualifier		RL		Uni	-	D	Pr	epared	Analy		Dil Fac
Chloride	•	<5.00	0		5.00		mg	кg				09/21/22	2 06:05	
Lab Sample ID: LCS 880-34588/2-A									Cli	ent	Sample	e ID: Lab C	ontrol S	ample
Matrix: Solid													Type: S	
Analysis Batch: 34947														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		251.9		mg/Kg			101	90 - 110		
												l als Carster		
Lab Sample ID: LCSD 880-34588/3 Matrix: Solid	-A							U	ient S	am	pie ID:	Lab Contro		
												Prep	Type: S	ιαυιο
Analysis Batch: 34947				Spike		LCSD	LCSD					%Rec		RP
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		252.7		mg/Kg			101	90 - 110	0	2
Lab Campia ID: 200 2025 4 MS												Client Se		
Lab Sample ID: 890-2985-1 MS Matrix: Solid												Client Sa	Type: S	
Analysis Batch: 34947												Fieh	Type. 3	olubi
Analysis Batch. 34347	Sample	Sami	ple	Spike		MS	мѕ					%Rec		
Analyte	Result			Added			Qualifier	Unit		D	%Rec	Limits		
Chloride	11.7			250		261.9		mg/Kg			100	90 - 110		
Lab Sample ID: 890-2985-1 MSD												<b>Client Sa</b>		
												Prep	Type: S	olubl
Matrix: Solid														
	Sample	Samj	ple	Spike		MSD	MSD					%Rec		RP
Matrix: Solid Analysis Batch: 34947 Analyte	Sample Result	-		Spike Added		MSD Result		Unit		D	%Rec	%Rec Limits	RPD	RPI Limi

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#### **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

5

8

#### Job ID: 890-2985-1 SDG: Lea County NM

**GC VOA** 

#### Prep Batch: 35201

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2985-1	BH01	Total/NA	Solid	5035	
890-2985-2	BH01A	Total/NA	Solid	5035	
890-2985-3	BH01B	Total/NA	Solid	5035	
890-2985-4	BH01C	Total/NA	Solid	5035	
890-2985-5	BH01D	Total/NA	Solid	5035	
MB 880-35201/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35201/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35201/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2967-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 35400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2985-1	BH01	Total/NA	Solid	8021B	35201
890-2985-2	BH01A	Total/NA	Solid	8021B	35201
890-2985-3	BH01B	Total/NA	Solid	8021B	35201
890-2985-4	BH01C	Total/NA	Solid	8021B	35201
890-2985-5	BH01D	Total/NA	Solid	8021B	35201
MB 880-35201/5-A	Method Blank	Total/NA	Solid	8021B	35201
LCS 880-35201/1-A	Lab Control Sample	Total/NA	Solid	8021B	35201
LCSD 880-35201/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35201
890-2967-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	35201
890-2967-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35201

#### Analysis Batch: 35524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2985-1	BH01	Total/NA	Solid	Total BTEX	
890-2985-2	BH01A	Total/NA	Solid	Total BTEX	
890-2985-3	BH01B	Total/NA	Solid	Total BTEX	
890-2985-4	BH01C	Total/NA	Solid	Total BTEX	
890-2985-5	BH01D	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

#### Prep Batch: 34747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2985-1	BH01	Total/NA	Solid	8015NM Prep	
890-2985-2	BH01A	Total/NA	Solid	8015NM Prep	
890-2985-3	BH01B	Total/NA	Solid	8015NM Prep	
890-2985-4	BH01C	Total/NA	Solid	8015NM Prep	
890-2985-5	BH01D	Total/NA	Solid	8015NM Prep	
MB 880-34747/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34747/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34747/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2984-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2984-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Lab Sample ID Client Sample ID Prep Type Matrix Method Prep Batch 890-2985-1 BH01 Total/NA 8015B NM Solid 34747 890-2985-2 BH01A Total/NA Solid 8015B NM 34747

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#### Released to Imaging: 4/19/2023 2:40:24 PM

#### **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

#### GC Semi VOA (Continued)

#### Analysis Batch: 34755 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2985-3	BH01B	Total/NA	Solid	8015B NM	34747
890-2985-4	BH01C	Total/NA	Solid	8015B NM	34747
890-2985-5	BH01D	Total/NA	Solid	8015B NM	34747
MB 880-34747/1-A	Method Blank	Total/NA	Solid	8015B NM	34747
LCS 880-34747/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	34747
LCSD 880-34747/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	34747
890-2984-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	34747
890-2984-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34747

#### Analysis Batch: 34897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2985-1	BH01	Total/NA	Solid	8015 NM	
890-2985-2	BH01A	Total/NA	Solid	8015 NM	
890-2985-3	BH01B	Total/NA	Solid	8015 NM	
890-2985-4	BH01C	Total/NA	Solid	8015 NM	
890-2985-5	BH01D	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 34588

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2985-1	BH01	Soluble	Solid	DI Leach	
890-2985-2	BH01A	Soluble	Solid	DI Leach	
890-2985-3	BH01B	Soluble	Solid	DI Leach	
890-2985-4	BH01C	Soluble	Solid	DI Leach	
890-2985-5	BH01D	Soluble	Solid	DI Leach	
MB 880-34588/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34588/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34588/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2985-1 MS	BH01	Soluble	Solid	DI Leach	
890-2985-1 MSD	BH01	Soluble	Solid	DI Leach	

#### Analysis Batch: 34947

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2985-1	BH01	Soluble	Solid	300.0	34588
890-2985-2	BH01A	Soluble	Solid	300.0	34588
890-2985-3	BH01B	Soluble	Solid	300.0	34588
890-2985-4	BH01C	Soluble	Solid	300.0	34588
890-2985-5	BH01D	Soluble	Solid	300.0	34588
MB 880-34588/1-A	Method Blank	Soluble	Solid	300.0	34588
LCS 880-34588/2-A	Lab Control Sample	Soluble	Solid	300.0	34588
LCSD 880-34588/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34588
890-2985-1 MS	BH01	Soluble	Solid	300.0	34588
890-2985-1 MSD	BH01	Soluble	Solid	300.0	34588

#### Job ID: 890-2985-1 SDG: Lea County NM

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Job ID: 890-2985-1 SDG: Lea County NM

#### Lab Sample ID: 890-2985-1 Matrix: Solid

Date Collected: 09/15/22 09:50 Date Received: 09/15/22 16:49

**Client Sample ID: BH01** 

Project/Site: Eata Fajita B CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35201	09/22/22 15:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35400	09/26/22 22:51	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35524	09/27/22 14:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34897	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 18:02	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	34588	09/19/22 11:40	SMC	EET MID
Soluble	Analysis	300.0		1			34947	09/21/22 07:27	СН	EET MID

#### **Client Sample ID: BH01A**

#### Date Collected: 09/15/22 09:55

Date Received: 09/15/22 16:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35201	09/22/22 15:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35400	09/26/22 23:17	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35524	09/27/22 14:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34897	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 18:23	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	34588	09/19/22 11:40	SMC	EET MID
Soluble	Analysis	300.0		1			34947	09/21/22 07:42	СН	EET MID

#### Client Sample ID: BH01B

#### Date Collected: 09/15/22 10:00

Date	Rece	ived:	09/15/22	16:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	35201	09/22/22 15:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35400	09/26/22 23:43	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35524	09/27/22 14:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34897	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 18:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	34588	09/19/22 11:40	SMC	EET MID
Soluble	Analysis	300.0		1			34947	09/21/22 07:46	СН	EET MID

#### **Client Sample ID: BH01C** Date Collected: 09/15/22 10:15 Date Received: 09/15/22 16:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35201	09/22/22 15:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35400	09/27/22 00:09	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35524	09/27/22 14:06	AJ	EET MID

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Matrix: Solid

#### Lab Sample ID: 890-2985-2 Matrix: Solid

1	3
-	

5 6

9

Matrix: Solid

Lab Sample ID: 890-2985-3

Lab Sample ID: 890-2985-4

#### Lab Chronicle

Job ID: 890-2985-1 SDG: Lea County NM

#### Lab Sample ID: 890-2985-4 Matrix: Solid

Lab Sample ID: 890-2985-5

Matrix: Solid

Date Collected: 09/15/22 10:15 Date Received: 09/15/22 16:49

Project/Site: Eata Fajita B CTB

**Client Sample ID: BH01C** 

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			34897	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 19:05	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	34588	09/19/22 11:40	SMC	EET MID
Soluble	Analysis	300.0		1			34947	09/21/22 08:01	CH	EET MID

#### Client Sample ID: BH01D Date Collected: 09/15/22 10:20

#### Date Received: 09/15/22 16:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35201	09/22/22 15:58	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35400	09/27/22 00:34	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35524	09/27/22 14:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			34897	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 19:26	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34588	09/19/22 11:40	SMC	EET MID
Soluble	Analysis	300.0		1			34947	09/21/22 08:06	CH	EET MID

#### Laboratory References:

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

2985-1 nty NM 2 985-4 3 : Solid 4 5

		Accreditation/C	ertification Summary		
Client: Ensolum Project/Site: Eata Fajita	a B CTB			Job ID: 890-2985-1 SDG: Lea County NM	2
Laboratory: Eurofi	ns Midland				
Unless otherwise noted, all a	nalytes for this laborator	y were covered under each acc	reditation/certification below.		
Authority		Program	Identification Number	Expiration Date	
Texas		NELAP	T104704400-22-24	06-30-23	
The following analytes a	are included in this repo	rt, but the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which	5
the agency does not off		· ·	, , , , ,		
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		
Total BTEX		Solid	Total BTEX		
					8
					9
					_
					10
					40
					13

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#### **Method Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

Job ID: 890-2985-1 SDG: Lea County NM

Vethod	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	MCAWW	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
OI Leach	Deionized Water Leaching Procedure	ASTM	EET MID
	STM International		
	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Mar	I I	
	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edit	tion, November 1986 And Its Updates.	
TAL SOP =	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> </ul>		
Laboratory Re			
EET MID =	Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440		

#### Protocol References:

#### Laboratory References:

Eurofins Carlsbad

#### **Sample Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-2985-1 SDG: Lea County NM

_ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
390-2985-1	BH01	Solid	09/15/22 09:50	09/15/22 16:49	0.5'	
390-2985-2	BH01A	Solid	09/15/22 09:55	09/15/22 16:49	1'	
390-2985-3	BH01B	Solid	09/15/22 10:00	09/15/22 16:49	2'	5
390-2985-4	BH01C	Solid	09/15/22 10:15	09/15/22 16:49	4'	
390-2985-5	BH01D	Solid	09/15/22 10:20	09/15/22 16:49	8'	
						8
						9
						12
						1:

Address:     3122 National Parks Hwy.     Address:       City, State ZIP:     Carlsbad, NM 88220     Email: Kiennings@ensolum.com       Proper     817-683-2503     Email: Kiennings@ensolum.com       Project Number:     03D2024075     Gautine     Routine     Routine     City, State ZIP:       Project Number:     03D2024075     Routine     Routine     Routine     Routine     Routine       Project Number:     03D2024075     Routine     NA     Due Date:     5 Day TAT       Samplers Name:     LC     TAT starts the day received by received b	Project Manager: Ka Company Name: Er	Kalei Jennings Ensolum		0 0	EL Paso. TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 Bill to: (if different) Company Name:	EL Paso, IX (915) 585-3443, Lubbock, IX (906) / 94-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199 fferent) Name:	(a.c.)	39	392-7550,	Hobbs, NM (5/5) 392-/550, Cansbad, NM (5/5) 966-3199 fferent) Name:
3122 National Parks Hwy.     Address:       Carlsbad, NM 88220     Email: Kiennings@ensolum.com       B17-683-2503     Email: Kiennings@ensolum.com       er:     03D2024075     Routine       on:     Lea County, NM     Due Date:     5 Day TAT       me:     Lea County, NM     Due Date:     5 Day TAT       me:     LC     TAT starts the day received by A 30pm     No       Viseals:     Yes No     Thermometer ID:     No       Yseals:     Yes No     Nile     Sampled     Sampled       BH01     S     9/15/22     955     1''     Grab/       BH01     S     9/15/22     1000     2''     Grab/     1       BH01     S     9/15/22     1000     2''     Grab/     1     x       BH01     S     9/15/22     1000     2''     Grab/     1     x       BH01     S     9/15/22     1020     8''     Grab/     1     x </td <td></td> <td>nsolum</td> <td></td> <td>0</td> <td>ompany Nam</td> <td>, ei</td> <td></td> <td></td> <td></td> <td></td>		nsolum		0	ompany Nam	, ei				
hone:       B17-683-2503       Email:       Kiennings@ensolum.com         roject Name:       Eata Fajita B CTB       Turn Around       Fish         roject Name:       03D2024075       © Routine       Routine       © Rush         amplers Name:       Lea County, NM       Due Date:       5 Day TAT         own       NA       Na       Ne Date:       5 Day TAT         own       NA       Due Date:       5 Day TAT         own       NA       Wet Ide:       Gas No         amples Received Intact:       (Tes) No       Thermometer ID:       No       Parameters         ample Custody Seals:       Yes No       (Nith Correction Factor:       -C		arisbad. NM 88220	· · · · · · · · · · · · · · · · · · ·	0	ity, State ZIP:					- I
Project Name:       Eata Fajita B CTB       Turn Around       main         Project Location:       Lea County, NM       Due Date:       5 Day TAT         Sampler's Name:       LC       Tatas the day received by received by received by a sopen programme in the lab. if received by a sopen program in the lab. If received by a sopen program in the lab. If received by a sopen program in the lab. If th		17-683-2503		Email: k	jennings@er	nnlost	.com		. 1	
Project Number:       03D2024075       Isoutine       Routine       Project Location:       Lea County, NM       Due Date:       5 Day TAT         Sampler's Name:       LC       TAT starts the day received by a 30pm       TAT starts the day received by 4 30pm       PO #:       NA       Wet Ice:       Gab       No       Wet Ice:       Gab       No       Sample Samples Received Infract:       TAT starts the day received by 4 30pm         Sample Received Infract:       (Tes)       No       Thermometer ID:       TAT starts the day received by 4 30pm         Cooler Custody Seals:       Yes       No       Thermometer ID:       TAT starts the day received by 4 30pm         Sample Custody Seals:       Yes       No       Thermometer ID:       TAT starts the day received by 4 30pm         Cooler Custody Seals:       Yes       No       Thermometer ID:       TAT starts the day received by 4 30pm         Cooler Custody Seals:       Yes       No       Marrix       Sampled       Sampled       Sampled Sampled       Sampled Sampled       Sampled Sampled Sampled       Sample Cont       Corrected Temperature:       Do       Do       Do       Parameters:       Do       Sample Sample Cont       Corrected Temperature:       Do       Do       Do       Sample Sample Sample Cont       Corrected Temperature:       Do	Project Name:	Eata Fajita B	СТВ	Turn A	vround					
Project Location:     Lea County, NM     Due Date:     5 Day TAT Samplers Name:       SAMPLE RECEIPT     Temp Blank:     Trans starts frage with any received by 4:30pm the lab, if received by 4:30pm to lab.       SAMPLE RECEIPT     Temp Blank:     The moneter ID: Total Containers:     Temp Blank:     The moneter ID: Total 200.7 / 6010     Temp Blank:     Date     Time Sampled     Depth     Comp Content and temp the source temp to the lab.       BH01     S     9/15/22     1015     4'     Grab/ Grab/     1'     X'       BH01     S     9/15/22     1020     8'     Grab/ Grab/     1'     X'       BH01     S     9/15/22     1020     8'     Grab/ Grab/     1'     X'       Circle Method(s) and Metal(s) to be analyzed     TCLP / SPLP 6010:     BRCRA     Sh As B       Circle Method(s) and telloguishment of samples constitutes a valial purchase order from client company to otherwish. Eurofins kance. A minimum charge of \$500 will be applied to ach project and a charge of \$5 for each sample samples and shall not assume any regrossibility for each sample samples ton	Project Number:	03D20240	75	-	Rush	Code			-	
The lab, if received by 4:30pm         Barnometer ID:       Date       Time       Depth       Grabl       Parameters         mperature Reading:       2       9       50       0.5;       Grabl       # of       Parameters         g/15/22       955       1       5;       Grabl       1       x       y         g/15/22       1000       2'       Grabl       1       x       y       y       15/22       1020       8'       Grabl       1       x       y       y       1       x       y       y       1       x       y       y       1       x       y       y       1       x       y       y       y       1       x       y       y       y       y       1       x       y       y       y       y       y       y       y       y       y       y       y       y       y       y       y <td< td=""><td>Sampler's Name:</td><td></td><td></td><td>TAT starts the c</td><td>day received by</td><td></td><td></td><td></td><td></td><td></td></td<>	Sampler's Name:			TAT starts the c	day received by					
SAMPLE RECEIPT       Temp Blank:       Top No       Wet loe:       Gas No       Wet loe:       Gas No       Parameter         Samples Received Intact:       (Tres)       No       Thermometer ID:       NA       Correction Factor:       NA       Gas No       Parameter         Sample Custody Seals:       Yes       No       NNA       Correction Factor:       NA       Gas No       Parameter         Total Containers:       Ves       No       Matrix       Sampled       Sampled       Sampled       Depth       Grab/       # of       Ford       Ford <td< td=""><td>PO#</td><td>N/A</td><td></td><td>the lab, if receiv</td><td>ved by 4:30pm</td><td>rs</td><td></td><td></td><td></td><td></td></td<>	PO#	N/A		the lab, if receiv	ved by 4:30pm	rs				
Samples Received Intact:       (Tres)       No       Thermometer ID:       The mometer I	SAMPLE RECEIPT	_	Res No	Wet Ice:		nete	.0)			
Cooler Custody Seals:       Yes       No       N/A       Correction Factor:       - D, Q       A       A         Sample Custody Seals:       Yes       No       N/A       Temperature Reading:       S	Samples Received Intac		Thermometer		14-187	aran	300			
Sample Custody Seals:       Yes       No. (V/W)       Temperature Reading:       Yes       Sample Identification       Matrix       Date Sampled       Time Sampled       Depth comp Cont       Grab/ and the perature is and the periture is and the	Cooler Custody Seals:	Yes No/			-0.2	Pa	PA:			
Total Containers:       Corrected Temperature:       D; C       Emperature:       D; C         Sample Identification       Matrix       Date Sampled       Time Sampled       Depth       Grab/ comp       for       Grab/ for       for       Grab/ for       for       Grab/ for       for       For <td>Sample Custody Seals:</td> <td>Yes No</td> <td></td> <td>Reading:</td> <td>5.2</td> <td></td> <td>S (EI</td> <td></td> <td></td> <td>1</td>	Sample Custody Seals:	Yes No		Reading:	5.2		S (EI			1
Sample Identification       Matrix       Date Sampled       Time Sampled       Depth Comp       Grab/ Comp       # of Comp       # of Comp <t< td=""><td>Total Containers:</td><td></td><td>Corrected Te</td><td>mperature:</td><td>30</td><td></td><td>IDE</td><td>015)</td><td>-</td><td>8021</td></t<>	Total Containers:		Corrected Te	mperature:	30		IDE	015)	-	8021
BH01       S       9/15/22       950       0.5;       Grab/       1       x       x         BH01A       S       9/15/22       955       1'       Grab/       1       x       x         BH01A       S       9/15/22       1000       2'       Grab/       1       x       x         BH01C       S       9/15/22       1000       2'       Grab/       1       x       x         BH01D       S       9/15/22       1015       4'       Grab/       1       x       x         BH01D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01D       S       9/15/22       1020       8'       Grab/       1       x       x         Colloc:       BH01D       S       9/15/22       1020       8'       Grab/       1       x       x         Colloc:       BH01D       200.8 / 6020:       BRCRA 13PPM       Texas 11       Al Sb As B       B         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCR	Sample Identifi						CHLOR	TPH (80		BTEX (
BH01A       S       9/15/22       955       1'       Grab/       1       x       x         BH01B       S       9/15/22       1000       2'       Grab/       1       x       x         BH01C       S       9/15/22       1015       4'       Grab/       1       x       x         BH01C       S       9/15/22       1015       4'       Grab/       1       x       x         BH01C       S       9/15/22       1020       8'       Grab/       1       x       x         BH01C       S       9/15/22       1020       8'       Grab/       1       x       x         BH01C       S       9/15/22       1020       8'       Grab/       1       x       x         BH01C       S       9/15/22       1020       8'       Grab/       1       x       x         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010       BRCRA Sb As       B       S       S         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010       BRCRA Sb As       S       S       S         Signature of this document and relinguishment of samples constitutes and shall not assume any responability for any lo	BH01	S	9/15/22				×	×	-	×
BH01 B       S       9/15/22       1000       2'       Grab/       1       x       x         BH01 C       S       9/15/22       1015       4'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As B       ECricle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As B         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As B         Office:       Signature of the output of the cost of samples constitutes a valid purchase order from client company to be analyzed of second samples constitutes a valid purchase of the sample submitted to a sample submitted to the sample submitted to the sample su	BH01		9/15/22				×	×		×
BH01 C       S       9/15/22       1015       4'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         S       9/15/22       1020       8'       Grab/       1       x       x         Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 Al Sb As B       BRCRA Sb As E       BRCRA Sh As E         Clicicle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As E       BRCRA Sh As E         Notice: Signature of this document any responsibility for any losses or of service. E work in the major of service and a charge of \$5 for each sample submitted to the service and a charge of \$5 for each sample submitted to the service and a charge of \$5 for each sample submitted to the service and a charge of \$5 for each sample submitted t	BH01		9/15/22				×	×		×
BH01 D       S       9/15/22       1020       8'       Grab/       1       x       x         Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 Al Sb As B.       Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As B.         Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to a diservice. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or of Eurofins Xenco. A minimum charge of \$55.00 will be applied to sach project and a charge of \$5 for each sample submitted to a scharge of \$5 for each sample submitted to a scharge of \$5 for each sample submitted to a scharge of \$5 for each sample submitted to the set of the set of \$5.00 will be applied to sach project and a charge of \$5 for each sample submitted to a scharge of \$5 for each sample submitted to the set of \$5.00 will be applied to sach project and a charge of \$5 for each sample submitted to the set of \$5.00 will be applied to by: (Signature)       Date/Tin         Relinquished for the cost of \$5.00 will be applied to by: (Signature)       Date/Tin	BH01 (		9/15/22				×	×	-	×
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Total 200.7 / 6010       200.8 / 6020:       8RCRA 13PPM Texas 11 Al Sb As B.         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       8RCRA Sb As B.         Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to or service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or of Eurofins Xenco. A minimum charge of \$85.00 will be applied to sach project and a charge of \$5 for each sample submitted to of Eurofine Xenco. A minimum charge of \$85.00 will be applied to sach project and a charge of \$5 for each sample submitted to a scharge of \$5 for each sample submitted to the sach project and a charge of \$5 for each sample submitted to the section of Eurofine Xenco. A minimum charge of \$85.00 will be applied to sach project and a charge of \$5 for each sample submitted to the section of Eurofine Xenco. A minimum charge of \$85.00 will be applied to sach project and a charge of \$5 for each sample submitted to the section of Eurofine Xenco. A minimum charge of \$85.00 will be applied to sach project and a charge of \$5 for each sample submitted to the section of Eurofine Xenco. A minimum charge of \$85.00 will be applied to the tota to the tota tota tota tota tota tota tota tot									_	+
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1 Duale Stal 9	Relinquished by (S	cument and relinquishmer will be liable only for the c wm charge of \$85.00 will b	a mphase as and a	hv: /Sinnatu	re)		Date/	!	12.5	
		cument and relinquishmer will be liable only for the c lum charge of \$85.00 will b (Signature)	Received	Dy. Vuguere		01.0		Time		

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

	Carlsba Phone	1089 N	Euro	
	Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199	1089 N Canal St.	<b>Eurofins Carlsbad</b>	
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## **Chain of Custody Record**

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Seurofins Environment Testing

<b>Received</b> b	y 0	CD:	10/10	/2022	9:37:2	8 AM
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Client Information (Sub Contract Lab)	Sampler			Lab PM	Lab PM Kramer Jessica	3					0	Carrier Tracking No(s)	rackin	g No(s	)					
	Phone:			E-Mail.	:	,		1			0	State of Origin	Origin					Page:		
Company				Dissar	Jessica Kramer@et.eurofinsus.com	Ier@e	Leuro	finsu	S COM		Ļ	New Mexico	exico	Γ				Page 1 of 1		
Eurofins Environment Testing South Centr				71	Accreditations Required (See note): NELAP - Texas	- Texa	Sl	(See )	ote):									Job #: 890-2985-1		
Address. 1211 W Florida Ave	Due Date Requested 9/21/2022	ă							Analys	isis F	Po	Requested	2					Preservation Codes	: <sup>3</sup>	
City Midland	TAT Requested (days)	iys)						-				-				-1	<u>Ju</u>	A HCL B NaOH	M - Hexane N - None O AsNaO2	ne VaO2
State Zip: TX 79701					<u></u>	TPH	<u></u>										R.	E NaHSO4	P - Na204S Q Na2SO3	Na2O4S Na2SO3
Phone 432-704-5440(Tel)	PO #:				i .	) Full	e											F - MeOH G Amchlor	K - NaZSZUS S H2SO4 T - TSP Dode	- Nazozos H2SO4 TSP Dodecahydrate
Email	WO #:				)	(MOE	hlorid	x									2.0,	_	V - MCAA	stone
Project Name:	Project #-				n No	Prep	H Cł	BTE									ers	J - DI Water K EDTA	V PH	pH 4-5
Eata Fajita B CTB	89000094			(s. 1)4	es o	_S_F	EAC	IOD)			<u> </u>					<u> </u>	tain	L EDA	Y - Trizma Z other (s	<ul> <li>Trizma other (specify)</li> </ul>
Site	SSOW#			2	SD (Y	015NM	D/DI_L	Calc (N	v								of cor	Other:		
			Sample IV Type (v	Matrix (W=water	m MS/M	DD_NM/8 DD_Calc	GFM_28	036FP_0	TEX_GC								umber			
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) BT=TI	<u>}</u>	Perf			8021	Total								Total	Special Ins	structi	necial Instructions/Note:
	X		Preservation Code:	Code:	$\widehat{X}$				0		an a	Salua C	14854 1774	2			X			
BH01 (890-2985-1)	9/15/22	Mountain		Solid		××	×	×	×											
BH01A (890-2985-2)	9/15/22	09 55 Mountain		Solid		××	×	×	×								-			
BH01B (890-2985-3)	9/15/22	10 00 Mountain		Solid		×××	×	×	×			-+				$\neg$	-			
BH01C (890-2985-4)	9/15/22	10 15 Mountain		Solid		××	×	×	×			-					4	<u>n-1.09.788</u>		
BH01D (890-2985-5)	9/15/22	10 20 Mountain		Solid		××	×	×	×	┝╍╍╍┨							_			
																	A			
						L											100 	<u></u>		
Note: Since laboratory accreditations are subject to change Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provide. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central LLC attention immediately. If all requested accreditations are current to date return the singed Chain of Custod vertices to accreditation accreditation of Custod vertices to accreditation are current to date return the singed Chain of Custod vertices to accreditation accreditation are current to date return the singed Chain of Custod vertices to accreditation are current to date return to date return to self compliance to accredit compliance to accreditation are current to date return the singed Chain of Custod vertices to accreditation are current to date return to date return to self compliance to accredit accreditation are current to date return to date return to self compliance to accredit accreditation are current to date return to date return to the self compliance to accredit accreditation are current to date return to self compliance to accredit accreditation are current to date return t	Testing South Centrive for analysis/tests/ tral LLC attention im	al LLC places th matrix being ana mediately If all	e ownership of me lyzed, the sample	ethod, analyt is must be st itations are c	e & accre lipped ba	ditation lick to th	e Euro	liance fins Er	upon o Nironm	n of C	iontrac sting S	labor outh C	itories entral	This	samp	le shij ory or	other	t is forwarded under ch r instructions will be pro	ain-of-cu vided	Any changes to
Possible Hazard Identification					Sam	Sample Disposal ( A fee	soos	A) le	feen	hay b	e ass	esse	difs	amp	es .	rera	tain	may be assessed if samples are retained longer than 1 month	month	
Unconfirmed					П	Retu	Return To Client	Clier				Disposal By Lab	Byt	ab .	i		Arci	Archive For	Мо	Months
Deliverable Requested   II III IV, Other (specify)	Primary Deliverable Rank	able Rank 2			Spec	Special Instructions/QC Re	tructic	ons/Q	C Re	equirements	nents	· [	ŀ							
Empty Kit Relinquished by		Date			Time /				>			Me	Method of Shipment:	fShip	nent:					
Relinquished by	Date/Time <sup>.</sup>		Company	pany			Pax.	2	7			┝		Dat	Date/Time	Ű			Company	iny
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Relinquished by	Date/Time		Company	pany	7	Received by	l by							Dat	Date/Time	œ			Company	ny
Custody Seals Intact. Custody Seal No			-			Cooler Temperature(s) °C and Other Remarks	ompera	iture(s	°Can	Othe	Rema	rks.		F					F	

Ver 06/08/2021

Job Number: 890-2985-1 SDG Number: Lea County NM

List Source: Eurofins Carlsbad

#### Login Sample Receipt Checklist

Client: Ensolum

#### Login Number: 2985 List Number: 1 Creator: Stutzman, Amanda

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

#### Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

Login Number: 2985 List Number: 2 Creator: Teel, Brianna

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

Received by OCD: 10/10/2022 9:37:28 AM

LINKS

Review your project results through

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#### Environment Testing America

#### **ANALYTICAL REPORT**

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

#### Laboratory Job ID: 890-2986-1

Laboratory Sample Delivery Group: Lea County NM Client Project/Site: Eata Fajita B CTB

#### For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

Attn: Kalei Jennings

RAMER

Authorized for release by: 9/26/2022 3:35:02 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 signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.
Laboratory Job ID: 890-2986-1 SDG: Lea County NM

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2

Client: Ensolum Project/Site: Eata Fajita B CTB Page 74 of 134

Job ID: 890-29	86-1
SDG: Lea County	/ NM

#### Qualifiers

	3
Qualifier Description	
LCS and/or LCSD is outside acceptance limits, low biased.	
LCS/LCSD RPD exceeds control limits.	5
MS and/or MSD recovery exceeds control limits.	
Indicates the analyte was analyzed for but not detected.	
Α	
Qualifier Description	
Surrogate recovery exceeds control limits, high biased.	
Indicates the analyte was analyzed for but not detected.	8
Qualifier Description	9
MS and/or MSD recovery exceeds control limits.	
Indicates the analyte was analyzed for but not detected.	
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	
Percent Recovery	
Contains Free Liquid	40
Colony Forming Unit	13
Contains No Free Liquid	
Duplicate Error Ratio (normalized absolute difference)	
	LCS and/or LCSD is outside acceptance limits, low biased.         LCS/LCSD RPD exceeds control limits.         MS and/or MSD recovery exceeds control limits.         Indicates the analyte was analyzed for but not detected.         A         Qualifier Description         Surrogate recovery exceeds control limits, high biased.         Indicates the analyte was analyzed for but not detected.         Qualifier Description         Surrogate recovery exceeds control limits, high biased.         Indicates the analyte was analyzed for but not detected.         Qualifier Description         MS and/or MSD recovery exceeds control limits.         Indicates the analyte was analyzed for but not detected.         Description         MS and/or MSD recovery exceeds control limits.         Indicates the analyte was analyzed for but not detected.         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         Percent Recovery         Contains Free Liquid         Colony Forming Unit         Contains No Free Liquid

 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

DL, INA, INL, IN	
DLC	Decision Level Concentration (Radiochemistry)

EDL	Estimated Detection Limit (Dioxin)
	Limit of Detection $(DoD/DOE)$

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)
- NDNot Detected at thNEGNegative / 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

#### Job ID: 890-2986-1 SDG: Lea County NM

#### Job ID: 890-2986-1

Client: Ensolum

#### Laboratory: Eurofins Carlsbad

Project/Site: Eata Fajita B CTB

#### Narrative

Job Narrative 890-2986-1

#### Receipt

The sample was received on 9/15/2022 4:49 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 5.0°C

#### GC VOA

Method 8021B: LCSD biased low. Since only an acceptable LCS is required per the method, the data has been qualified and reported. (LCSD 880-35199/2-A)

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35199 and analytical batch 880-35329 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: Surrogate recovery for the following samples were outside control limits: (LCS 880-34747/2-A) and (LCSD 880-34747/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD\_NM: The method blank for preparation batch 880-34747 and analytical batch 880-34755 contained Gasoline Range Organics (GRO)-C6-C10 and OII Range Organics (Over C28-C36) above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

#### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-34930 and 880-34930 and analytical batch 880-35027 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.

4

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

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

Result Qualifier

U \*-

Qualifier

Qualifier

U

Result Qualifier

<50.0 U

<0.00200 U \*1

<0.00200 U\*-

<0.00200 U\*-

<0.00200 U\*-

<0.00401 U\*-

98

102

Result

<0.00401

<0.00401

%Recovery

RL

0.00200

0.00200

0.00200

0.00401

0.00200

0.00401

Limits

70 - 130

70 - 130

RL

RL

50.0

0.00401

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

Unit

mg/Kg

mg/Kg

D

D

D

Prepared

09/22/22 15:49

09/22/22 15:49

09/22/22 15:49

09/22/22 15:49

09/22/22 15:49

09/22/22 15:49

Prepared

09/22/22 15:49

09/22/22 15:49

Prepared

Prepared

Job ID: 890-2986-1 SDG: Lea County NM

# **Client Sample ID: SS04**

Project/Site: Eata Fajita B CTB

Date Collected: 09/15/22 11:10 Date Received: 09/15/22 16:49

Sample Depth: 0.5'

Client: Ensolum

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Total TPH

Total BTEX

Ethylbenzene

Xylenes, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

# Lab Sample ID: 890-2986-1

Analyzed

09/25/22 00:06

09/25/22 00:06

09/25/22 00:06

09/25/22 00:06

09/25/22 00.06

09/25/22 00:06

Analyzed

09/25/22 00:06

09/25/22 00:06

Analyzed

09/26/22 15:58

Analyzed

09/20/22 09:06

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

5

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier Analyte RL Unit D Dil Fac Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/19/22 08:27 09/19/22 20:28 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 09/19/22 08:27 09/19/22 20:28 C10-C28) Oll Range Organics (Over C28-C36) <50.0 U 50.0 09/19/22 08:27 09/19/22 20:28 mg/Kg 1 Limits Dil Fac Surrogate %Recovery Qualifier Prepared Analyzed 09/19/22 08:27 09/19/22 20:28 1-Chlorooctane 86 70 - 130 81 09/19/22 08:27 o-Terphenyl 70 - 130 09/19/22 20:28 1 Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL D Dil Fac Unit Prepared Analyzed Chloride 91.7 4.95 mg/Kg 09/21/22 13:41 1

**Eurofins Carlsbad** 

Project/Site: Eata Fajita B CTB

#### Job ID: 890-2986-1 SDG: Lea County NM

Prep Type: Total/NA

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

#### Matrix: Solid

Client: Ensolum

_				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		5
890-2965-A-1-E MS	Matrix Spike	82	109		
890-2965-A-1-F MSD	Matrix Spike Duplicate	81	111		6
890-2986-1	SS04	98	102		
LCS 880-35199/1-A	Lab Control Sample	85	108		
LCSD 880-35199/2-A	Lab Control Sample Dup	84	101		
MB 880-35199/5-A	Method Blank	103	119		8
Surrogate Legend					
BFB = 4-Bromofluorober	nzene (Surr)				9

DFBZ = 1,4-Difluorobenzene (Surr)

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

## Matrix: Solid

		1CO1	OTPH1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-2984-A-1-B MS	Matrix Spike	84	78	
390-2984-A-1-C MSD	Matrix Spike Duplicate	84	78	
390-2986-1	SS04	86	81	
CS 880-34747/2-A	Lab Control Sample	166 S1+	176 S1+	
_CSD 880-34747/3-A	Lab Control Sample Dup	186 S1+	200 S1+	
MB 880-34747/1-A	Method Blank	91	98	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

#### Job ID: 890-2986-1 SDG: Lea County NM

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

Project/Site: Eata Fajita B CTB Method: 8021B - Volatile Organic Compounds (GC)

# Lab Sample ID: MB 880-35199/5-A

Matrix: Solid Analysis Batch: 35329

Client: Ensolum

Analysis Batch: 35329							Prep Batch	n: 35199
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/22/22 15:49	09/24/22 15:38	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			09/22/22 15:49	09/24/22 15:38	1
1,4-Difluorobenzene (Surr)	119		70 - 130			09/22/22 15:49	09/24/22 15:38	1

#### Lab Sample ID: LCS 880-35199/1-A Matrix: Solid

#### Analysis Batch: 35329

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1041		mg/Kg		104	70 - 130	
Toluene	0.100	0.08298		mg/Kg		83	70 - 130	
Ethylbenzene	0.100	0.07948		mg/Kg		79	70 - 130	
m-Xylene & p-Xylene	0.200	0.1620		mg/Kg		81	70 - 130	
o-Xylene	0.100	0.08134		mg/Kg		81	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	85		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

#### Lab Sample ID: LCSD 880-35199/2-A

#### Matrix: Solid

Analysis Batch: 35329							Prep	Batch:	35199
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07166	*1	mg/Kg		72	70 - 130	37	35
Toluene	0.100	0.05980	*_	mg/Kg		60	70 - 130	32	35
Ethylbenzene	0.100	0.05660	*_	mg/Kg		57	70 - 130	34	35
m-Xylene & p-Xylene	0.200	0.1165	*_	mg/Kg		58	70 - 130	33	35
o-Xylene	0.100	0.06050	*_	mg/Kg		60	70 - 130	29	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

# Lab Sample ID: 890-2965-A-1-E MS

# Matrix: Solid

Analysis Batch: 35329									Prep	o Batch: 35199
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	< 0.00202	U *1	0.0998	0.09137		mg/Kg		91	70 - 130	
Toluene	<0.00202	U *-	0.0998	0.07416		mg/Kg		73	70 - 130	

sbad

Prep Type: Total/NA

#### **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 35199

Eurofins	Carls

**Client Sample ID: Matrix Spike** 

# **QC Sample Results**

Client: Ensolum Project/Site: Eata Fajita B CTB

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

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Lab Sample ID: 890-2965-A-1-I Matrix: Solid	EMS								Client		ype: To	otal/NA
Analysis Batch: 35329	<b>.</b> .	-		• •							Batch:	35199
	Sample			Spike		MS				%Rec		
Analyte	Result			Added		Qualifier	Unit		D %Rec	Limits		
Ethylbenzene	<0.00202	U *-		0.0998	0.06651	F1	mg/Kg		66	70 - 130		
m-Xylene & p-Xylene	<0.00404	U *-	F1	0.200	0.1323	F1	mg/Kg		65	70 - 130		
o-Xylene	<0.00202	U *-	F1	0.0998	0.06601	F1	mg/Kg		65	70 - 130		
	MS	MS										
Surrogate	%Recovery	Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	82			70 - 130								
1,4-Difluorobenzene (Surr)	109			70 - 130								
Lab Sample ID: 890-2965-A-1-I	F MSD							Clier	nt Sample II	): Matrix Sp	oike Du	plicate
Matrix: Solid										Prep T	ype: To	otal/NA
Analysis Batch: 35329											Batch:	
	Sample	Sam	ple	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qua	lifier	Added	Result	Qualifier	Unit		D %Rec	Limits	RPD	Limit
Benzene	<0.00202	U *1		0.100	0.09751		mg/Kg		96	70 - 130	7	35
Toluene	<0.00202	U *-		0.100	0.07203		mg/Kg		70	70 - 130	3	35
Ethylbenzene	<0.00202	U *-	F1	0.100	0.06391	F1	mg/Kg		63	70 - 130	4	35
m-Xylene & p-Xylene	<0.00404	U *-	F1	0.201	0.1265	F1	mg/Kg		62	70 - 130	5	35
o-Xylene	<0.00202			0.100	0.06225	F1	mg/Kg		61	70 - 130	6	35
	MSD	MSD	)									
Surrogate	%Recovery	Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	81			70_130								
1,4-Difluorobenzene (Surr)	111			70 - 130								
lethod: 8015B NM - Diese	I Range O	rgar	nics (DR	O) (GC)								
Lab Sample ID: MB 880-34747	/1- <b>A</b>								Client S	Sample ID: I	Method	Blank
Matrix: Solid											ype: To	
Analysis Batch: 34755											Batch:	
,,		мв	МВ									
Analyte	R	esult		R	L	Uni	t	D	Prepared	Analyz	ed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10		<50.0	U	50.	0	mg	/Kg		09/19/22 08:2	7 09/19/22	12:04	1
Diesel Range Organics (Over C10-C28)	•	<50.0	U	50.	0	mg	′Kg		09/19/22 08:2	7 09/19/22 <sup>·</sup>	12:04	1
Oll Range Organics (Over C28-C36)	c	<50.0	U	50.	0	mg	′Kg		09/19/22 08:2	7 09/19/22 <sup>-</sup>	12:04	1
		ΜВ	МВ									
Surrogate	%Reco	overy	Qualifier	Limits					Prepared	Analyz	ed	Dil Fac
Surrogate 1-Chlorooctane	%Reco	overy 91	Qualifier	<i>Limits</i> 70 _ 130	_			-	Prepared 09/19/22 08:2			Dil Fac 1

#### Lab Sample ID: LCS 880-34747/2-A Matrix: Solid Analysis Batch: 34755

Analysis Batch: 34755							Prep	Batch: 34747
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	868.7		mg/Kg		87	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	774.2		mg/Kg		77	70 - 130	
C10-C28)								

Eurofins Carlsbad

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

# **QC Sample Results**

Client: Ensolum Project/Site: Eata Fajita B CTB

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

Lab Sample ID: LCS 880-347	747/2-A						Client	t Sample	e ID: Lab C		
Matrix: Solid										Гуре: То	
Analysis Batch: 34755									Prep	Batch:	34747
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	176	S1+	70 - 130								
 Lab Sample ID: LCSD 880-34	4747/2 4					Clie	nt Con		Lob Contro	l Compl	o Dun
-	4/4// <b>3</b> -A					Cile	ni San	ipie iD.	Lab Contro		
Matrix: Solid										Type: To	
Analysis Batch: 34755			Spike	1.060	LCSD				%Rec	Batch:	34/4/ RPD
A			Spike			1114		0/ D			
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	920.7		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	834.1		mg/Kg		83	70 - 130	7	20
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	200	S1+	70 - 130								
Lab Sample ID: 890-2984-A-	1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep <sup>-</sup>	Гуре: То	tal/NA
Analysis Batch: 34755									Prep	Batch:	34747
-	Sample	Sample	Spike	MS	MS				%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	996	886.6		mg/Kg		87	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	711.5		mg/Kg		71	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	78		70 - 130								
Lab Sample ID: 890-2984-A-	1-C MSD					C	lient S	ample I	D: Matrix S	pike Dup	olicate
Matrix: Solid								- C.		Гуре: То	
Analysis Batch: 34755										Batch:	
· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9		999	887.2		mg/Kg		87	70 - 130	0	20
(GRO)-C6-C10 Diesel Bango Organics (Over	<49.9		999	717.5		ma/Ka		72	70 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	0	333	6.117		mg/Kg		12	70 - 130	I	20
	MSD	MSD									
Surrogate	%Recovery		Limits								

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	84		70 - 130
o-Terphenyl	78		70 - 130

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Job ID: 890-2986-1

SDG: Lea County NM

Project/Site: Eata Fajita B CTB

Client: Ensolum

# **QC Sample Results**

Job ID: 890-2986-1 SDG: Lea County NM

# Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-34930/1-A											Client S	ample ID:		
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 35027														
		MB	MB											
Analyte	Re	esult	Qualifier		RL		Unit	t	D	P	repared	Analyz	zed	Dil Fa
Chloride	<	\$.00	U		5.00		mg/	Kg				09/21/22	12:27	
Lab Sample ID: LCS 880-34930/2-A									Cli	ent	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 35027														
				Spike		LCS	LCS					%Rec		
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride				250		258.6		mg/Kg			103	90 - 110		
Lab Sample ID: LCSD 880-34930/3-	A							CI	ient S	am	ple ID: I	_ab Contro	ol Sampl	le Du
Matrix: Solid												Prep	Type: S	olubl
Analysis Batch: 35027														
-				Spike		LCSD	LCSD					%Rec		RPI
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride				250		240.8		mg/Kg		_	96	90 - 110	7	20
Lab Sample ID: 890-2983-A-1-E MS											Client	Sample ID	: Matrix	Spike
Matrix: Solid												Prep	Type: S	oluble
Analysis Batch: 35027														
	Sample	Sam	ple	Spike		MS	MS					%Rec		
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	150	F1		252		373.6	F1	mg/Kg		_	89	90 - 110		
Lab Sample ID: 890-2983-A-1-F MS	D								Clien	t Sa	mple ID	: Matrix S	pike Dur	olicat
Matrix: Solid													Type: S	
Analysis Batch: 35027														
-	Sample	Sam	ple	Spike		MSD	MSD					%Rec		RPI
Analyte	Result	Qual	ifier	Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi

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# **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-2986-1

SDG: Lea County NM

#### **GC VOA**

#### Prep Batch: 35199

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2986-1	SS04	Total/NA	Solid	5035	
MB 880-35199/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35199/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35199/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2965-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
890-2965-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 35329					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2986-1	SS04	Total/NA	Solid	8021B	35199
MB 880-35199/5-A	Method Blank	Total/NA	Solid	8021B	35199
LCS 880-35199/1-A	Lab Control Sample	Total/NA	Solid	8021B	35199
LCSD 880-35199/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35199
890-2965-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	35199
890-2965-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	35199
nalysis Batch: 35434					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2986-1	SS04	Total/NA	Solid	Total BTEX	

#### Prep Batch: 34747

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-2986-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-34747/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-34747/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-34747/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2984-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2984-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 34755

Client Sample ID	Prep Type	Matrix	Method	Prep Batch
SS04	Total/NA	Solid	8015B NM	34747
Method Blank	Total/NA	Solid	8015B NM	34747
Lab Control Sample	Total/NA	Solid	8015B NM	34747
Lab Control Sample Dup	Total/NA	Solid	8015B NM	34747
Matrix Spike	Total/NA	Solid	8015B NM	34747
Matrix Spike Duplicate	Total/NA	Solid	8015B NM	34747
	Method Blank Lab Control Sample Lab Control Sample Dup Matrix Spike	Method BlankTotal/NALab Control SampleTotal/NALab Control Sample DupTotal/NAMatrix SpikeTotal/NA	Method BlankTotal/NASolidLab Control SampleTotal/NASolidLab Control Sample DupTotal/NASolidMatrix SpikeTotal/NASolid	Method BlankTotal/NASolid8015B NMLab Control SampleTotal/NASolid8015B NMLab Control Sample DupTotal/NASolid8015B NMMatrix SpikeTotal/NASolid8015B NM

Total/NA

Solid

8015 NM

#### HPLC/IC

890-2986-1

#### Leach Batch: 34930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2986-1	SS04	Soluble	Solid	DI Leach	
MB 880-34930/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-34930/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-34930/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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SS04

Job ID: 890-2986-1 SDG: Lea County NM

# HPLC/IC (Continued)

#### Leach Batch: 34930 (Continued)

ach Batch: 34930 (C	on and out				
ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-2983-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
90-2983-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
alysis Batch: 35027					
ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
90-2986-1	SS04	Soluble	Solid	300.0	34930
B 880-34930/1-A	Method Blank	Soluble	Solid	300.0	34930
CS 880-34930/2-A	Lab Control Sample	Soluble	Solid	300.0	34930
CSD 880-34930/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34930
90-2983-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	34930
90-2983-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34930

		гіер іуре	IVIAUIA	Methou	Frep Batch
890-2986-1	SS04	Soluble	Solid	300.0	34930
MB 880-34930/1-A	Method Blank	Soluble	Solid	300.0	34930
LCS 880-34930/2-A	Lab Control Sample	Soluble	Solid	300.0	34930
LCSD 880-34930/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	34930
890-2983-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	34930
890-2983-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	34930

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Job ID: 890-2986-1 SDG: Lea County NM

## Lab Sample ID: 890-2986-1 Matrix: Solid

Date Collected: 09/15/22 11:10 Date Received: 09/15/22 16:49

**Client Sample ID: SS04** 

Project/Site: Eata Fajita B CTB

Client: Ensolum

	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	35199	09/22/22 15:49	MR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35329	09/25/22 00:06	MR	EET MID
Total/NA	Analysis	Total BTEX		1			35434	09/26/22 15:58	SM	EET MID
Total/NA	Analysis	8015 NM		1			34898	09/20/22 09:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	34747	09/19/22 08:27	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	34755	09/19/22 20:28	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	34930	09/20/22 10:20	KS	EET MID
Soluble	Analysis	300.0		1			35027	09/21/22 13:41	СН	EET MID

#### Laboratory References:

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

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		Accreditation/C	ertification Summary			
Client: Ensolum Project/Site: Eata Fajita	a B CTB			:	Job ID: 890-2986-1 SDG: Lea County NM	2
Laboratory: Eurofi Unless otherwise noted, all a		were covered under each acc	reditation/certification below.			
Authority		Program	Identification Number	Expiration Date		
Texas		NELAP	T104704400-22-24	06-30-23	-	5
• ,		but the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for wl	hich	
the agency does not of		Matrix				
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH			
Total BTEX		Solid	Total BTEX			
_						8
						9
						10
						11
						13

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#### **Method Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

Job ID: 890-2986-1 SDG: Lea County NM

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	EET MID
otal BTEX	Total BTEX Calculation	TAL SOP	EET MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
00.0	Anions, Ion Chromatography	MCAWW	EET MID
035	Closed System Purge and Trap	SW846	EET MID
015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET 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:

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

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# **Sample Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-2986-1 SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-2986-1	SS04	Solid	09/15/22 11:10	09/15/22 16:49	0.5'	4
						5
						8
						9
						12
						13

.

ny Name:     Ensolum     Company Name:       s:     31/22 National Parks Hwy:     Address:       s:     31/22 National Parks Hwy:     City, State ZiP:       s:     Carisbad, NM 69220     Enait Recently City, State ZiP:       Name:     Eal Folita B CTB     Tum Around       Name:     LC     Carisbad, NM 69220       Name:     La County, NM     Carisbad, NM company Name:       Name:     La County, NM     Carisbad, NM company Name:       Name:     LC     Carisbad, NM company Name:     AMALYSIS REQUINCOM       Streenvel tract:     NA     Tum Around     Tum Around       NA     LC     Dub Date:     5 Day TAT     Code Allow       Custody Seals:     Yes     No     Wei toe:     Code Allow       Custody Seals:     Yes     No     Wei toe:     Code Allow       Custody Seals:     Yes     No     No     Time       Custody Seals:     Yes     No     No     Correction Factor:     Code Allow       Custody Seals:     Yes     No     No     Correction Factor:     Code Code Code Code Code Code Code Code	Ó	nnin	Environment Testing Xenco 35		Hou Midian EL P Hobb	ston, TX ( d, TX (432 aso, TX (9 ps, NM (57 ps, NM (57	(281) 240 2) 704-54 915) 585- 75) 392-7	-4200, Da 40, San A 3443, Lub 550, Carts	Houston, TX (281) 240-4200, Daltas, 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 different)	Work Order No: www.xenco.com Work Order C	ork Order No www.xenco.com Work Order 1
Invane:     Ensolum     Company Name:       streer     3122 National Parts Hwy.     Address:       ale ZIP:     Carlisbad, MM 68220     Enait Karlings@ensolum.com       all ZIP:     Carlisbad, MM 68220     Enait Regit B CTB     Turn Avanta       Name:     Eala Falla B CTB     Turn Avanta     Mark Sign 200       Number:     G3D2024075     Reurine     Reurine     Reurine       Streenvold Intel:     US     No     No     Wet Ice:     Gig No       LC     Use No     No     No     Wet Ice:     Gig No     Parameters       Custody Seals:     Yes     No     Correction Factor:	Project Manager: Ki	Kalei Jennings			Bill to: (If different)	()					Work Order Comments
s.     3122 National Parks Hwy.     Address:       ale ZIP:     Carisbad, NM 69220     Email:     Identifies@Ensoluti.com       Name:     Eata Fajita B CTB     Tum Around     Pris.       Number:     0020224075     Bovine     Cade       Same:     LC     The Bank:     Vestor:     Cade       Number:     0020224075     Dub Date:     5 Day TAT       Same:     LC     The Bank:     Vestor:     Cade       Number:     0020224076     Torn Around     Pris.     Cade       Seceived Inact:     Loc     Thermometril:     Torn Bank:     Vestor:     Pris.       Seceived Inact:     Vestor:     Corrected Temperature Reading:     Pris.     Pris.       Custory Seals:     Vestor:     Sample     Sample     Corrected Temperature       Story     Source with white optore     Sample     Corrected Temperature     Pris.       Story     Source with a downer to any for the source teamperature     Source with a downer team of Cust       Story     Source with a downer teamperature     Sample     Cade     Pris.       Story     Source teamperature     Sample     Corrected Temperature     Sau       Story     Source teamperature     Sample     Corrected Temperature     Sau       Sour		insolum			Company Nam	<u>.</u>				Prog	51
ale ZIP:     Carrisbad. NM 88220     Email:     Ist mail:     Annue       Name:     Eata Fajita B CTB     Tum Around     ANALYSIS REQ       Number:     0302024075     Savine     Carlisbad. NM     Carlisbad. NM       Ist Received Intact:     LC     Num     Number:     0302024075     Savine     Carlisbad. NM     Carl		122 National Parks	Hwy.		Address:					Stat	State of Project:
Phone:       Inf 7 603-2503       Email: kiennings@enscium.com         Project Name:       Eala Fallta B CTB       Turn Around       Raufine       ANALYSIS REQ         Project Name:       03D2024075       ERutine       Raufine		arisbad, NM 88220			City, State ZIP:					Rep	Reporting: Level II  Level III  PST/UST  TRRP
Toget Name:         Eata Falta B CTB         Turn Around Object Location:         Lea County, NM         Due Date:         5 Day TAT Tat starts the day received by some three stamples Received Interact:         Eata County, NM         Due Date:         5 Day TAT Tat starts the day received by some three stamples Received Interact:         No         The Due Date:         5 Day TAT Tat starts the day received by some three stamples Received Interact:         No         The mometer ID:         Turn Around         Pre- code         Constant Some three stamples         Some term         So		17-683-2503		Email:	kjennings@ei	nsolum.c	com			D	Deliverables: EDD
Project Number:       03D2024075       Involute       Due Date:       S Day TAT bue Date:       S Day TAT Sampler's Name:         0.pt:       LC       That sats the day received by 430pm to Bampler's Name:       NA       Due Date:       S Day TAT Sampler's Name:         0.pt:       NA       NA       Due Date:       S Day TAT TAT sats the day received by 430pm to Bampler's Name:       NA       Due Date:       S Day TAT Sampler's Name:         3ampler Received Intact:       (CB)       NA       Wethce:       (CB)       NA         Sample Received Intact:       (VB)       (VB)       (VB)       (VB)       Parameters         Coald Containers:       Ves       NA       Temperature:       S.O.       Parameters         Sample Identification       Matrix       Sampled       Sampled       Depth       Comp       1       X       X         SSO4       S       9/15/22       1110       D.S.       Comp       1       X       X       X       Sec. Call of Call	Name:	Eata Fajita B	СТВ	Turn	Around				ANALYSIS RE	ĨČ	EST
Project Location:       Lea County, NM       Due Date:       S Day TAT         Sampler's Name:       UC       TAT starts the day received by 4:30m         Sampler Received Intact:       WA       The momenter ID:       The starts the day received by 4:30m         Sampler Received Intact:       Wa       Correction Factor:      O., 2         Sample Custody Seals:       Yes       No       The momenter ID:       The start the day received by 4:30m         Cooler Custody Seals:       Yes       No       Correction Factor:      O., 2       Parameters         Containers:       Sampled       Sampled       Sampled       Sampled Containers       Sampled Sampled       Sampled Containers       Sampled Sampled Sampled Sampled Containers       Parameters         Cold Containers:       SS04       S       9/15/22       1110       0.5;       Comp       1       x       x       x       Sampled Sameles Sampled Sampled Sameles Sampled Sampled Sampled Sameles Sample	Project Number:	03D20240	75	Routine	🗌 Rush	Pres. Code					
Sampler's Name:       LC       Tat starts the day received by the lab, freewed by Anome the lab, freewed by Correction Factor:       The momenter ID: The lab, freewed by Anome the lab, freewed by Correction Factor:       The momenter ID: The lab, freewed by Anome the lab, freewed by Correction Factor:       The momenter ID: The lab, freewed by Anome the lab, freewed by Correction Factor:       The momenter ID: The lab, free Anometric       The momenter ID: The lab, free Anometric       The lab, free Anometric       Correction Factor: The lab, free Anometric       Parameters Anometric         Sample Custody Seals:       Yes: No Corrected Temperature:       5: Corrected Temperature:       5: Corrected Temperature:       5: Corrected Temperature:       900-2966 Chain of Cu Bit Bit Anometric         Sample Custody Seals:       Sampled       Sampled       Sampled       Depth Sampled Corrected Temperature:       Corrected Temperature:       800-2966 Chain of Cu Bit Bit Anometric         Sample Identification       Matrix       Date       Sample Identification       Sample Identification       Sample Identification       800-2966 Chain of Cu Bit Bit Anometric       800-	Project Location:	Lea County	NM	Due Date:	5 Day TAT			-			
Op#.       N/A       Inter Blank:       Vest No.       Wet Ice:       Ice:       No.       No. <th< td=""><td>Sampler's Name:</td><td>۲C</td><td></td><td>TAT starts the</td><td>day received by</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Sampler's Name:	۲C		TAT starts the	day received by						
SAMPLE RECEIPT       Temp Blank:       (g) No       Wel loe:       (g) No       Wel loe:       (g) No       No       Thermometer ID:	PO #	N/A		the lab, if rece	lived by 4:30pm	ers	_	-			
Samples Received Intact:       (CB       No       Thermometer ID:       TIVeGrade       Paran         Cooler Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Yes       No       Addition Factor:      O       Paran       Sample Custody Seals:       Paran       Sample Custody Seals:       Paran       Sample Custody Seals:       Paran       Sample Custody Seals:       Sample Custody Seals:       Paran       Sample Custody Seals:       Paran       Sample Custody Seals:       Paran       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:       Paran       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:       Sample Custody Seals:	SAMPLE RECEIPT		( Ves No	Wet Ice:	Kes No	nete	.0)				
Cooler Custody Seals:       Yes       No       With       Correction Factor:	Samples Received Intai		Thermomete	er ID:	Theory	iran	300				
Sample Custody Seals:       Yes       No. Variat       Temperature Reading:       S.       S. <ths.< th="">       S.       <ths.< th=""></ths.<></ths.<>	Cooler Custody Seals:	Yes		actor:	-0.2	Pa	PA:			-	
Catal Containers:       Corrected Temperature:       S.C.       DBE         Sample Identification       Matrix       Date       Time       Depth       Grab/ # of       DEF         SS04       S       9/15/22       1110       0.5;       Comp       1       X       X       X         SS04       S       9/15/22       1110       0.5;       Comp       1       X <t< td=""><td>Sample Custody Seals:</td><td>Yes No</td><td></td><td>e Reading:</td><td></td><td>1</td><td></td><td>+</td><td>890-2986 Chain of C</td><td>st I</td><td></td></t<>	Sample Custody Seals:	Yes No		e Reading:		1		+	890-2986 Chain of C	st I	
Sample Identification       Matrix       Date Sampled       Time Sampled       Depth Comp       Grab/ Low       Ford       Comp       Comp <thcomp< th=""></thcomp<>	Total Containers:		Corrected T	emperature:	5.0					9	
SS04       S       9/15/22       1110       0.5;       Comp       1       x       x       i       i       i       i       i       i       x       x       i       i       i       x       x       i       i       i       x       x       i       i       x       x       x       i       i       x       x       x       i       i       i       x       x       x       i       i       i       x       x       x       i	Sample Identif			Time Sampled							
Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb N         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As Ba Be Cd Cr Co Cu Fe Pb N         Coltes: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It farryics. Eurofins Xenco, will be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms of the cost of samples constitutes a valid purchase order from client company to Eurofins Xenco, but not analyzed. These terms of the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are to Eurofins Xenco. A minimum charge of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms of the cost of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms of the cost of \$5.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be applied to each project and a charge of \$5.00 will be appl	SS04	S	9/15/22								
Total 200.7 / 6010       200.8 / 6020:       8RCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb N         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       8RCRA Sb As Ba Be Cd Cr Co Cu Fe Pb N         Volte: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. If Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$1 or each sample submitted to Eurofins Xenco, but not analyzed. These terms ver Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$1 or each sample submitted to Eurofins Xenco, but not analyzed. These terms ver Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$1 or each sample submitted to Eurofins Xenco, but not analyzed. These terms ver Eurofins Xenco. A minimum charge of \$86.00 will be applied by: (Signature)       Date/Time       Relinquished by: (Signature)						F	╞			+	
Total 200.7 / 6010       200.8 / 6020:       BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb N         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo N         Oifcle: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco. Its affiliates and subcontractors. If service. Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms vert Eurofins Xenco. A minimum charge of \$86.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms vert Eurofins Xenco. A minimum charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms vert Eurofins Xenco. A minimum charge of \$5 for each sample submitted to Eurofins Xenco. Second the client if such losses terms vert for Second by: (Signature)       Date/Time       Relinquished by: (Signature)								+++-			
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Total 200.7 / 6010       200.8 / 6020:       BRCRA       T3PPM       Texas 11       All Sb       As       Ba       Be       BC       Ca       Cr       Co       Cu       Fe       P         Circle Method(s) and Metal(s) to be analyzed       TCLP / SPLP 6010:       BRCRA       Sb       As       Ba       Be       Cd       Cr       Co       Cu       Pb       Mn       Mc         Circle Method(s) and Metal(s) to be analyzed       transport       State				111			·IL	'   -			
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9/26/2022

Released to Imaging: 4/19/2023 2:40:24 PM

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Ver 06/08/2021

## Login Sample Receipt Checklist

Client: Ensolum

#### Login Number: 2986 List Number: 1 Creator: Stutzman, Amanda

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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Job Number: 890-2986-1 SDG Number: Lea County NM

#### List Source: Eurofins Carlsbad

Job Number: 890-2986-1 SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 09/19/22 08:28 AM

#### Login Sample Receipt Checklist

Client: Ensolum

Login Number: 2986 List Number: 2 Creator: Teel, Brianna

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

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# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-3103-1

Laboratory Sample Delivery Group: 03D2024075 Client Project/Site: Eata Fajita B CTB Revision: 1

# For:

Ensolum 705 W. Wadley Suite 210 Midland, Texas 79701

# Attn: Hadlie Green

RAMER

Authorized for release by: 10/4/2022 12:15:18 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 signature.

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

SDG: 03D2024075

Laboratory Job ID: 890-3103-1

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	Definitions/Glossary		
Client: Ensolu	-	Job ID: 890-3103-1	
Project/Site: I	Eata Fajita B CTB	SDG: 03D2024075	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		8
U	Indicates the analyte was analyzed for but not detected.		
Glossary			g
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOQ	Limit of Quantitation (DoD/DOE)		
MCL	EPA recommended "Maximum Contaminant Level"		
MDA	Minimum Detectable Activity (Radiochemistry)		
MDC	Minimum Detectable Concentration (Radiochemistry)		
MDL	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		
NC	Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Negative / Absent		

**Eurofins Carlsbad** 

Positive / Present

Presumptive Quality Control

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

POS

PQL

QC RER

RL

RPD TEF

TEQ

TNTC

PRES

# **Case Narrative**

Client: Ensolum Project/Site: Eata Fajita B CTB

#### Job ID: 890-3103-1

#### Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3103-1

#### **REVISION**

The report being provided is a revision of the original report sent on 9/30/2022. The report (revision 1) is being revised due to Per client email, correcting sample depths.

Report revision history

#### Receipt

The samples were received on 9/28/2022 4:21 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-35720 and analytical batch 880-35814 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.

Job ID: 890-3103-1 SDG: 03D2024075

Client: Ensolum Project/Site: Eata Fajita B CTB

## **Client Sample ID: SS05** Date Collected: 09/28/22 13:15 Date Received: 09/28/22 16:21

Sample Depth: 0.5'

Method:         8021B - Volatile Organic Compounds (GC)           Analyte         Result         Qualifier         RL         Unit         D         Prepared         Analyzed           Benzene         <0.00201         U         0.00201         mg/Kg         09/29/22 15:53         09/30/22 17:22           Toluene         <0.00201         U         0.00201         mg/Kg         09/29/22 15:53         09/30/22 17:22           Ethylbenzene         <0.00201         U F1         0.00201         mg/Kg         09/29/22 15:53         09/30/22 17:22           m-Xylene & p-Xylene         <0.00402         U F1         0.00402         mg/Kg         09/29/22 15:53         09/30/22 17:22           o-Xylene         <0.00201         U F1         0.00402         mg/Kg         09/29/22 15:53         09/30/22 17:22           vylenes, Total         <0.00201         U F1         0.00402         mg/Kg         09/29/22 15:53         09/30/22 17:22           Surrogate         %Recovery Qualifier         Limits         Prepared         Analyzed	Dil Fac 1 1 1 1 1 1 1
Toluene<0.00201	1 1 1 1 1
Ethylbenzene<0.00201U F10.00201mg/Kg09/29/22 15:5309/30/22 17:22m-Xylene & p-Xylene<0.00402	1
m-Xylene & p-Xylene<0.00402U F10.00402mg/Kg09/29/2215:5309/30/2217:22o-Xylene<0.00201	1
o-Xylene         <0.00201         U F1         0.00201         mg/Kg         09/29/22         15:53         09/30/22         17:22           Xylenes, Total         <0.00402	1
Xylenes, Total         <0.00402         U F1         0.00402         mg/Kg         09/29/22         15:53         09/30/22         17:22	
	1
Surrogate %Recovery Qualifier Limits Prepared Analyzed	1
	Dil Fac
4-Bromofluorobenzene (Surr)         105         70 - 130         09/29/22 15:53         09/30/22 17:22	1
	1
 Method: Total BTEX - Total BTEX Calculation	
Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac
Total BTEX         <0.00402         U         0.00402         mg/Kg         09/30/22 20:54	1
Method: 8015 NM - Diesel Range Organics (DRO) (GC)	
Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac
Total TPH         836         49.8         mg/Kg         09/30/22 20:38	1
Method: 8015B NM - Diesel Range Organics (DRO) (GC)	
Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac
Gasoline Range Organics         <49.8         U         49.8         mg/Kg         09/30/22 08:47         09/30/22 11:37           (GRO)-C6-C10	1
Diesel Range Organics (Over         836         49.8         mg/Kg         09/30/22 08:47         09/30/22 11:37           C10-C28)         C10-C28         C10	1
OII Range Organics (Over C28-C36)         <49.8         U         49.8         mg/Kg         09/30/22 08:47         09/30/22 11:37	1
Surrogate %Recovery Qualifier Limits Prepared Analyzed	Dil Fac
1-Chlorooctane         97         70 - 130         09/30/22 08:47         09/30/22 11:37	1
o-Terphenyl 90 70 - 130 09/30/22 08:47 09/30/22 11:37	1
Method: 300.0 - Anions, Ion Chromatography - Soluble	
Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac
Chloride         292         5.04         mg/Kg         09/30/22 15:06	1
Client Sample ID: SS06 Date Collected: 09/28/22 13:05 Date Received: 09/28/22 16:21 Sample Depth: 0.5'	8103-2 c: Solid
Method: 8021B - Volatile Organic Compounds (GC)	
Analyte Result Qualifier RL Unit D Prepared Analyzed	Dil Fac
	1
Benzene <a></a> <0.00199	
	1

# Dil Fac

Carlsbad

1 1

1

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Job ID: 890-3103-1 SDG: 03D2024075

# Lab Sample ID: 890-3103-1 Matrix: Solid

#### C C D S

Ethylbenzene	<0.00199	U	0.00199	mg/Kg	09/29/22 15:53	09/30/22 17:48
n-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg	09/29/22 15:53	09/30/22 17:48
o-Xylene	<0.00199	U	0.00199	mg/Kg	09/29/22 15:53	09/30/22 17:48
Kylenes, Total	<0.00398	U	0.00398	mg/Kg	09/29/22 15:53	09/30/22 17:48
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
I-Bromofluorobenzene (Surr)			70 - 130		09/29/22 15:53	09/30/22 17:48

Job ID: 890-3103-1 SDG: 03D2024075

# Client Sample ID: SS06 Date Collected: 09/28/22 13:05

Client: Ensolum

#### Date Received: 09/28/22 16:21 Sample Depth: 0.5'

Project/Site: Eata Fajita B CTB

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130			09/29/22 15:53	09/30/22 17:48	1
Method: Total BTEX - Tota	al BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	mg/Kg			09/30/22 20:54	1
Method: 8015 NM - Diesel								
Analyte	Result	s (DRO) (O Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Analyte Total TPH	Result 329	Qualifier	<b>RL</b> 49.9	Unit mg/Kg	D	Prepared	Analyzed 09/30/22 20:38	Dil Fac
Analyte Total TPH Method: 8015B NM - Diese	Result 329 el Range Organi	Qualifier	(GC)	mg/Kg			09/30/22 20:38	Dil Fac
	Result 329 el Range Organi	Qualifier	<b>RL</b> 49.9		D	Prepared Prepared		Dil Fac 1 Dil Fac

Diesel Range Organics (Over C10-C28)	329		49.9	mg/Kg	09/30/22 08:47	09/30/22 11:59	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg	09/30/22 08:47	09/30/22 11:59	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130		09/30/22 08:47	09/30/22 11:59	1
o-Terphenyl	73		70 - 130		09/30/22 08:47	09/30/22 11:59	1

Method: 300.0 - Anions, Ion Chro	omatograp	hy - Soluble						
Analyte	Result (	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	208		5.05	mg/Kg			09/30/22 15:10	1

## **Client Sample ID: SS07** Date Collected: 09/28/22 13:10 Date Received: 09/28/22 16:21

#### Lab Sample ID: 890-3103-3 Matrix: Solid

Sample Depth: 0.5' Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 09/29/22 15:53 09/30/22 18:14 1 Toluene <0.00200 U 0.00200 mg/Kg 09/29/22 15:53 09/30/22 18:14 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 09/29/22 15:53 09/30/22 18:14 1 m-Xylene & p-Xylene <0.00399 U 0.00399 mg/Kg 09/29/22 15:53 09/30/22 18:14 1 o-Xylene <0.00200 U 0.00200 mg/Kg 09/29/22 15:53 09/30/22 18:14 1 0.00399 Xylenes, Total <0.00399 U mg/Kg 09/29/22 15:53 09/30/22 18:14 1 Surrogate %Recoverv Qualifier Limits Prepared Analvzed Dil Fac 111 70 - 130 09/29/22 15:53 09/30/22 18:14 4-Bromofluorobenzene (Surr) 1 1,4-Difluorobenzene (Surr) 99 70 - 130 09/29/22 15:53 09/30/22 18:14 1 Method: Total BTEX - Total BTEX Calculation Analvte **Result Qualifier** RL Unit D Prepared Analyzed Dil Fac Total BTEX <0.00399 U 0.00399 mg/Kg 09/30/22 20:54 1 Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	310		49.9	mg/Kg			09/30/22 20:38	1

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Matrix: Solid

5

# Lab Sample ID: 890-3103-2

**Released to Imaging: 4/19/2023 2:40:24 PM** 

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Job ID: 890-3103-1 SDG: 03D2024075

Matrix: Solid

Lab Sample ID: 890-3103-3

# **Client Sample ID: SS07** Date Collected: 09/28/22 13:10 Date Received: 09/28/22 16:21

Project/Site: Eata Fajita B CTB

Sample Depth: 0.5'

**Client: Ensolum** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 12:20	1
Diesel Range Organics (Over C10-C28)	310		49.9	mg/Kg		09/30/22 08:47	09/30/22 12:20	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			09/30/22 08:47	09/30/22 12:20	1
o-Terphenyl	86		70 - 130			09/30/22 08:47	09/30/22 12:20	1

4	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	199		4.98	mg/l	<g< th=""><th></th><th>09/30/22 15:25</th><th>1</th></g<>		09/30/22 15:25	1

#### **Client Sample ID: FS01** Date Collected: 09/28/22 13:30 Date Received: 09/28/22 16:21

Sample Depth: 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/22 15:53	09/30/22 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/29/22 15:53	09/30/22 18:40	1
1,4-Difluorobenzene (Surr)	99		70 - 130			09/29/22 15:53	09/30/22 18:40	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			09/30/22 20:54	1
Method: 8015 NM - Diesel Rai	nge Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			09/30/22 20:38	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
-								
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 12:42	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0		50.0	mg/Kg mg/Kg		09/30/22 08:47 09/30/22 08:47	09/30/22 12:42 09/30/22 12:42	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U				09/30/22 08:47	09/30/22 12:42	·
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<50.0	U U	50.0	mg/Kg		09/30/22 08:47	09/30/22 12:42	1

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09/30/22 08:47 09/30/22 12:42

**Released to Imaging: 4/19/2023 2:40:24 PM** 

o-Terphenyl

70 - 130

101

		Client	Sample Re	esults				
Client: Ensolum Project/Site: Eata Fajita B CTB							Job ID: 890- SDG: 03D2	
Client Sample ID: FS01 Date Collected: 09/28/22 13:30 Date Received: 09/28/22 16:21 Sample Depth: 2'						Lab Samp	le ID: 890-3	
Method: 300.0 - Anions, Ion C Analyte		i <mark>phy - Solı</mark> Qualifier	uble RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	101		4.98	mg/Kg			09/30/22 15:30	1
Client Sample ID: FS02 Date Collected: 09/28/22 13:35 Date Received: 09/28/22 16:21 Sample Depth: 2'						Lab Samp	le ID: 890-3 Matrix	3 <b>103-5</b> :: Solid
Method: 8021B - Volatile Orga					_			
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200		0.00200	mg/Kg		09/29/22 15:53	09/30/22 19:06	1
Toluene	<0.00200		0.00200	mg/Kg		09/29/22 15:53	09/30/22 19:06	1
Ethylbenzene	<0.00200		0.00200	mg/Kg			09/30/22 19:06	1
m-Xylene & p-Xylene	<0.00399		0.00399	mg/Kg			09/30/22 19:06	1
o-Xylene	< 0.00200		0.00200	mg/Kg		09/29/22 15:53	09/30/22 19:06	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/22 15:53	09/30/22 19:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			09/29/22 15:53	09/30/22 19:06	1
1,4-Difluorobenzene (Surr)	93		70 - 130			09/29/22 15:53	09/30/22 19:06	1
Method: Total BTEX - Total B								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			09/30/22 20:54	1
Method: 8015 NM - Diesel Ra		s (DRO) ( Qualifier		11=14	<b>_</b>	Dranavad	Analyzad	
Analyte Total TPH		Quaimer		Unit mg/Kg	<u>D</u>	Prepared	Analyzed 09/30/22 20:38	Dil Fac
Method: 8015B NM - Diesel R Analyte	ange Organ	<mark>ics (DRO)</mark> Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 13:04	1
Diesel Range Organics (Over C10-C28)	198		50.0	mg/Kg		09/30/22 08:47	09/30/22 13:04	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			09/30/22 08:47	09/30/22 13:04	1
o-Terphenyl	101		70 - 130			09/30/22 08:47	09/30/22 13:04	1
Method: 300.0 - Anions, Ion C					_	David i	<b>A</b>	<b>D</b> 11 <b>-</b>
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1		4.99	mg/Kg			09/30/22 15:35	1

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Client: Ensolum Project/Site: Eata Fajita B CTB

#### **Client Sample ID: FS03** Date Collected: 09/28/22 13:40 Date Received: 09/28/22 16:21

Sample Depth: 2'

Method: 8021B - Volatile Orga Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Benzene	<0.00199		0.00199	mg/Kg		09/29/22 15:53		
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 19:32	
Ethylbenzene	<0.00199		0.00199	mg/Kg		09/29/22 15:53		
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/29/22 15:53	09/30/22 19:32	
o-Xylene	0.00403		0.00199	mg/Kg		09/29/22 15:53		
Xylenes, Total	0.00403		0.00398	mg/Kg		09/29/22 15:53	09/30/22 19:32	
Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	123		70 - 130			09/29/22 15:53		
1,4-Difluorobenzene (Surr)	99		70 - 130			09/29/22 15:53	09/30/22 19:32	
Method: Total BTEX - Total B1	TEX Calcula	tion						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00403		0.00398	mg/Kg			09/30/22 20:54	
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (G	iC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	142		50.0	mg/Kg			09/30/22 20:38	
Method: 8015B NM - Diesel Ra	ange Organi	ics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0		50.0	mg/Kg		09/30/22 08:47		
Diesel Range Organics (Over C10-C28)	142		50.0	mg/Kg		09/30/22 08:47	09/30/22 13:26	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 13:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	88		70 - 130			09/30/22 08:47		
o-Terphenyl	80		70 - 130			09/30/22 08:47	09/30/22 13:26	
Method: 300.0 - Anions, Ion C								
Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	65.8		4.96	mg/Kg			09/30/22 15:40	
lient Sample ID: FS04						Lab Samp	le ID: 890-3	3103-7
ate Collected: 09/28/22 13:45								k: Solid
ate Received: 09/28/22 16:21 ample Depth: 2'								
Method: 8021B - Volatile Orga Analyte		unds (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201		0.00201	mg/Kg	<u>·</u>	09/29/22 15:53		
Toluene	< 0.00201		0.00201	mg/Kg		09/29/22 15:53		
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/29/22 15:53	09/30/22 19:58	
	<0.00201 <0.00402		0.00201 0.00402	mg/Kg mg/Kg				
Ethylbenzene m-Xylene & p-Xylene o-Xylene		U				09/29/22 15:53		1 1 1

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Dil Fac

5

Job ID: 890-3103-1 SDG: 03D2024075

# Lab Sample ID: 890-3103-6 Matrix: Solid

Job ID: 890-3103-1 SDG: 03D2024075

Matrix: Solid

### **Client Sample ID: FS04** Date Collected: 09/28/22 13:45

Project/Site: Eata Fajita B CTB

Client: Ensolum

Date Received: 09/28/22 16:21 Sample Depth: 2'

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

Surrogate 1.4-Difluorobenzene (Surr)	<u>%Recovery</u> Qu 106	ualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Dilluoroberizerie (Suir)	100		10-130			09/29/22 15.55	09/30/22 19.30	1
Method: Total BTEX - Tota	al BTEX Calculatio	on						
Analyte	Result Qu	ualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U		0.00402	mg/Kg			09/30/22 20:54	1
Method: 8015 NM - Diesel	Range Organics (	(DRO) (G	C)					
Analyte	Result Qu		RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U		49.9	mg/Kg			09/30/22 20:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 13:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 13:48	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 13:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/22 08:47	09/30/22 13:48	1

#### Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte **Result Qualifier** RL Unit D Prepared

Analyte	Result Qualifi	ier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	156	5.03	mg/Kg			09/30/22 15:44	1
Client Sample ID: SW01				L	_ab Samp	ole ID: 890-3	103-8

# **Client Sample ID: SW01** Date Collected: 09/28/22 13:20

Date Received: 09/28/22 16:21 Sample Depth: 0 - 2'

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/29/22 15:53	09/30/22 20:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/29/22 15:53	09/30/22 20:24	1
1,4-Difluorobenzene (Surr)	96		70 - 130			09/29/22 15:53	09/30/22 20:24	1
_ Method: Total BTEX - Total	BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			09/30/22 20:54	1
_ Method: 8015 NM - Diesel F	Range Organic	s (DRO) (0	SC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			09/30/22 20:38	1

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Matrix: Solid

5

Client: Ensolum Project/Site: Eata Fajita B CTB

# Client Sample ID: SW01

Date Collected: 09/28/22 13:20 Date Received: 09/28/22 16:21

Sample Depth: 0 - 2'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 14:10	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 14:10	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		09/30/22 08:47	09/30/22 14:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			09/30/22 08:47	09/30/22 14:10	1
o-Terphenyl	100		70 - 130			09/30/22 08:47	09/30/22 14:10	1

### Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.3	5.00	mg/Kg			09/30/22 15:49	1

# Client Sample ID: SW02

#### Date Collected: 09/28/22 13:25 Date Received: 09/28/22 16:21 Sample Depth: 0 - 2'

Amelute	Decult	Qualifier	RL	11		Drenered	A malumaa'	Dil Fac
Analyte				Unit	D	Prepared	Analyzed	DIFac
Benzene	<0.00199		0.00199	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/29/22 15:53	09/30/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			09/29/22 15:53	09/30/22 20:50	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/29/22 15:53	09/30/22 20:50	1
Method: Total BTEX - Total B Analyte Total BTEX		Qualifier	<b>RL</b> 0.00398	Unit mg/Kg	D	Prepared	Analyzed 09/30/22 20:54	Dil Fac
Analyte	Result <0.00398	Qualifier U	0.00398		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX	Result <0.00398	Qualifier U	0.00398		D 	Prepared Prepared		Dil Fac 1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra	Result <0.00398	Qualifier U s (DRO) (C Qualifier	0.00398	mg/Kg		<u>.</u>	09/30/22 20:54	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte	Result           <0.00398	Qualifier U s (DRO) (C Qualifier U	0.00398 GC) RL 50.0	mg/Kg Unit		<u>.</u>	09/30/22 20:54	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH	Result <0.00398 nge Organic Result <50.0 ange Organ	Qualifier U s (DRO) (C Qualifier U	0.00398 GC) RL 50.0	mg/Kg Unit		<u>.</u>	09/30/22 20:54	1
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	Result <0.00398 nge Organic Result <50.0 ange Organ	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	09/30/22 20:54 Analyzed 09/30/22 20:38	1 Dil Fac
Analyte Total BTEX Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	Result <0.00398 nge Organic Result <50.0 ange Organ Result	Qualifier U s (DRO) (C Qualifier U ics (DRO) Qualifier U	0.00398 C) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	09/30/22 20:54  Analyzed 09/30/22 20:38  Analyzed	1 Dil Fac

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Job ID: 890-3103-1 SDG: 03D2024075

#### Lab Sample ID: 890-3103-8 Matrix: Solid

Matrix: Solid

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# Lab Sample ID: 890-3103-9 Matrix: Solid

		Client Sa	mple Re	esults					
Client: Ensolum Project/Site: Eata Fajita B CTB							Job ID: 890- SDG: 03D2		2
Client Sample ID: SW02 Date Collected: 09/28/22 13:25						Lab Samp	ple ID: 890-3 Matrix	3103-9 x: Solid	
Date Received: 09/28/22 16:21 Sample Depth: 0 - 2'									4
Method: 300.0 - Anions, Ion Chr Analyte		a <mark>phy - Soluble</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	17.2		5.00	mg/Kg		<u> </u>	09/30/22 15:54	1	
									8
									9
									13

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# **Surrogate Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

#### Method: 8021B - Volatile Organic Compounds (GC) Matrix: Solid

			Pe	rcent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3103-1	SS05	105	98		÷
890-3103-1 MS	SS05	100	92		
890-3103-1 MSD	SS05	110	114		2
890-3103-2	SS06	101	90		
890-3103-3	SS07	111	99		
890-3103-4	FS01	113	99		
890-3103-5	FS02	104	93		
890-3103-6	FS03	123	99		
890-3103-7	FS04	120	106		
890-3103-8	SW01	115	96		
890-3103-9	SW02	108	91		
LCS 880-35720/1-A	Lab Control Sample	103	103		
LCSD 880-35720/2-A	Lab Control Sample Dup	108	108		
MB 880-35720/5-A	Method Blank	70	92		
Surrenate Laward					
Surrogate Legend	onzono (Surr)				
BFB = 4-Bromofluorobe					
DFBZ = 1,4-Difluorobe	nzene (Surr)				

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

			Perc	cent Surrogat
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-19834-A-1-B MS	Matrix Spike	124	80	
880-19834-A-1-C MSD	Matrix Spike Duplicate	134 S1+	88	
890-3103-1	SS05	97	90	
890-3103-2	SS06	87	73	
890-3103-3	SS07	99	86	
890-3103-4	FS01	104	101	
890-3103-5	FS02	108	101	
890-3103-6	FS03	88	80	
890-3103-7	FS04	102	99	
890-3103-8	SW01	102	100	
890-3103-9	SW02	93	92	
LCS 880-35754/2-A	Lab Control Sample	101	98	
LCSD 880-35754/3-A	Lab Control Sample Dup	107	101	
MB 880-35754/1-A	Method Blank	115	108	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-3103-1 SDG: 03D2024075

Prep Type: Total/NA

# Prep Type: Total/NA

# **QC Sample Results**

Job ID: 890-3103-1 SDG: 03D2024075

Prep Type: Total/NA

**Prep Type: Total/NA** 

**Prep Type: Total/NA** 

Prep Batch: 35720

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

Page 105 of 134

Client: Ensolum Project/Site: Eata Fajita B CTB

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

#### Lab Sample ID: MB 880-35720/5-A Matrix: Solid Analysis Batch: 35814

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/29/22 15:53	09/30/22 16:57	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	70		70 - 130			09/29/22 15:53	09/30/22 16:57	1
1,4-Difluorobenzene (Surr)	92		70 - 130			09/29/22 15:53	09/30/22 16:57	1

#### Lab Sample ID: LCS 880-35720/1-A Matrix: Solid Analysis Batch: 35814

Analysis Batch: 35814							Prep Ba	tch: 35720
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	
Toluene	0.100	0.09873		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.1077		mg/Kg		108	70 - 130	
m-Xylene & p-Xylene	0.200	0.2162		mg/Kg		108	70 - 130	
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	

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

#### Lab Sample ID: LCSD 880-35720/2-A Matrix: Solid

#### Analysis Batch: 35814

Analysis Batch: 35814							Prep E	•	
-	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1096		mg/Kg		110	70 - 130	0	35
Toluene	0.100	0.1001		mg/Kg		100	70 - 130	1	35
Ethylbenzene	0.100	0.09889		mg/Kg		99	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2044		mg/Kg		102	70 - 130	6	35
o-Xylene	0.100	0.1077		mg/Kg		108	70 - 130	1	35

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

#### Lab Sample ID: 890-3103-1 MS Matrix: Solid

Analy	/sis	Batc	h: :	3581	4

Analysis Batch: 35814									Prep B	atch: 35720
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.07929		mg/Kg		79	70 - 130	
Toluene	<0.00201	U	0.100	0.07010		mg/Kg		70	70 - 130	

**Eurofins Carlsbad** 

**Client Sample ID: SS05** 

**Prep Type: Total/NA** 

#### Released to Imaging: 4/19/2023 2:40:24 PM

# QC Sample Results

Client: Ensolum Project/Site: Eata Fajita B CTB

Lab Sample ID: 890-3103-1 MS

Analysis Batch: 35814

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Matrix: Solid

Analyte

o-Xylene

Surrogate

Ethylbenzene

m-Xylene & p-Xylene

# Method: 8021B - Volatile Organic Compou

Sample Sample

MS MS

%Recovery Qualifier

100

92

<0.00201 U F1

<0.00402 UF1 <0.00201 UF1

**Result Qualifier** 

						SDG: 03D2024075	
inds (GC	c) (Conti	nued)					
					C	lient Sample ID: SS05 Prep Type: Total/NA Prep Batch: 35720	
Spike Added	-	MS Qualifier	Unit	D	%Rec	%Rec Limits	5
0.100	0.05866		mg/Kg		58	70 - 130	
0.201	0.1149	F1	mg/Kg		57	70 - 130	
0.100	0.05781	F1	mg/Kg		58	70 - 130	7
Limits							8

Lab Sample ID:	890-3103-1 MSD
Matrix: Solid	

#### Analysis Batch: 35814 Sample Sample Spike MSD MSD %Rec RPD Analyte **Result Qualifier** Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene <0.00201 U 0.0990 0.08129 82 70 - 130 2 35 mg/Kg Toluene <0.00201 U 0.0990 0.07007 71 70 - 130 35 mg/Kg 0 Ethylbenzene <0.00201 UF1 0.0990 0.05609 F1 mg/Kg 57 70 - 130 4 35 m-Xylene & p-Xylene <0.00402 UF1 0.198 0.1078 F1 mg/Kg 54 70 - 130 6 35 <0.00201 UF1 0.0990 0.05517 F1 56 o-Xylene mg/Kg 70 - 130 5 35 MSD MSD

70 - 130

70 - 130

	10/30	14130	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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

#### Lab Sample ID: MB 880-35754/1-A Matrix: Solid Analysis Batch: 35736

Analysis Batch: 35736							Prep Batch	35754
-	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 09:28	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/22 08:47	09/30/22 09:28	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	108		70 - 130

#### Lab Sample ID: LCS 880-35754/2-A Matrix: Solid Analysis Batch: 35736

Analysis Batch: 35736							Prep E	Batch: 35754
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	753.2		mg/Kg		75	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	962.9		mg/Kg		96	70 - 130	
C10-C28)								

Job ID: 890-3103-1

# **Client Sample ID: SS05**

Prep Type: Total/NA Prep Batch: 35720

**Client Sample ID: Method Blank** 

Analyzed

09/30/22 08:47 09/30/22 09:28

09/30/22 08:47 09/30/22 09:28

**Client Sample ID: Lab Control Sample** 

Dil Fac

1

1

Prepared

Prep Type: Total/NA

**Eurofins Carlsbad** 

Prep Type: Total/NA

Lab Sample ID: LCS 880-35754/2-A

# **QC Sample Results**

**Client: Ensolum** Project/Site: Eata Fajita B CTB

Matrix: Solid

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

#### Job ID: 890-3103-1 SDG: 03D2024075

Prep Type: Total/NA Prep Batch: 35754

Prep Type: Total/NA Prep Batch: 35754

RPD

4

4

**Client Sample ID: Lab Control Sample** 

**Client Sample ID: Lab Control Sample Dup** 

78

100

Unit

mg/Kg

mg/Kg

D %Rec %Rec

Limits

70 - 130

70 - 130

**Client Sample ID: Matrix Spike Duplicate** 

7

RPD

Limit

20

20

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

pe:	IOT	al/r	NA	
atc	h: 3	357	54	

	LCS	LCS			
Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	101		70 - 130		
o-Terphenyl	98		70 - 130		
Lab Sample ID: LCSD 88	30-35754/3-A				(
Matrix: Solid	30-35754/3-A				(
Matrix: Solid	30-35754/3-A		Spike	LCSD	LCSD
	30-35754/3-A		Spike Added		LCSD Qualifier
Matrix: Solid Analysis Batch: 35736	80-35754/3-A 		•		

C10-C28)			
	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	101		70 - 130

# Lab Sample ID: 880-19834-A-1-B MS

Diesel Range Organics (Over

Matrix: Solid Analysis Batch: 35736										be: Total/NA atch: 35754
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	1040		998	1890		mg/Kg		85	70 - 130	
Diesel Range Organics (Over C10-C28)	1690		998	2765		mg/Kg		108	70 - 130	

1000

998.5

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	124		70 - 130
o-Terphenyl	80		70 - 130

#### Lab Sample ID: 880-19834-A-1-C MSD Matrix: Solid Analysis Batch: 35736

Analysis Batch: 35736									Prep E	atch:	35754
-	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	1040		999	1986		mg/Kg		94	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	1690		999	2948		mg/Kg		126	70 - 130	6	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	134	S1+	70 - 130
o-Terphenyl	88		70 - 130

Client: Ensolum

# **QC Sample Results**

Job ID: 890-3103-1 SDG: 03D2024075

Project/Site: Eata Fajita B CTB Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-35792/ Matrix: Solid Analysis Batch: 35813	1-A						(	Clie	ent Sam	ple ID: M Prep Ty		
Analysis Batch. 00010		MB MB										
Analyte		ult Qualifier		RL	Unit		D	Pi	repared	Analyz	zed	Dil Fac
Chloride	<5	.00 U		5.00	mg/K	(g	_		•	09/30/22		1
Lab Sample ID: LCS 880-35792	/ <b>2-A</b>					Cli	ent	Sar	nple ID	: Lab Cor		
Matrix: Solid										Prep T	ype: So	oluble
Analysis Batch: 35813			Spike	1.09	LCS					%Rec		
Analyte			Added		Qualifier	Unit		D	%Rec	Limits		
Chloride			250	243.5		mg/Kg		-	97	90 - 110		
Matrix: Solid Analysis Batch: 35813			Spiko							Prep Ty	ype: So	
			Spike	_	LCSD					%Rec		RPD
Analyte			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Chloride			250	245.0		mg/Kg			98	90 - 110	1	20
Lab Sample ID: 890-3107-A-9-D	MS							CI	ient Sa	mple ID: I	Matrix	Spike
Matrix: Solid										Prep Ty	ype: So	oluble
Analysis Batch: 35813												
	Sample \$	•	Spike	-	MS			_		%Rec		
Analyte	Result	Qualifier	Added		Qualifier	Unit		D	%Rec	Limits		
Chloride	53.3		250	297.7		mg/Kg			98	90 - 110		
Lab Sample ID: 890-3107-A-9-E	MSD					Clien	t Sa	mp	le ID: N	latrix Spil	ke Dup	licate
Matrix: Solid										Prep T		
Analysis Batch: 35813												
	••••••••••	Sample	Spike	MSD	MSD					%Rec		RPD
	Sample \$	oumpie										
Analyte	Result	•	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit

**Eurofins Carlsbad**
## **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-3103-1

SDG: 03D2024075

5

## GC VOA

### Prep Batch: 35720

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3103-1	SS05	Total/NA	Solid	5035	
890-3103-2	SS06	Total/NA	Solid	5035	
890-3103-3	SS07	Total/NA	Solid	5035	
890-3103-4	FS01	Total/NA	Solid	5035	
890-3103-5	FS02	Total/NA	Solid	5035	
890-3103-6	FS03	Total/NA	Solid	5035	
890-3103-7	FS04	Total/NA	Solid	5035	
890-3103-8	SW01	Total/NA	Solid	5035	
890-3103-9	SW02	Total/NA	Solid	5035	
MB 880-35720/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-35720/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-35720/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-3103-1 MS	SS05	Total/NA	Solid	5035	
890-3103-1 MSD	SS05	Total/NA	Solid	5035	

### Analysis Batch: 35814

890-3103-7	FS04	Iotal/NA	Solid	5035		
890-3103-8	SW01	Total/NA	Solid	5035		8
890-3103-9	SW02	Total/NA	Solid	5035		
MB 880-35720/5-A	Method Blank	Total/NA	Solid	5035		9
LCS 880-35720/1-A	Lab Control Sample	Total/NA	Solid	5035		
LCSD 880-35720/2-A	Lab Control Sample Dup	Total/NA	Solid	5035		10
890-3103-1 MS	SS05	Total/NA	Solid	5035		
890-3103-1 MSD	SS05	Total/NA	Solid	5035		11
Analysis Batch: 358 <sup>,</sup>	14					40
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	12
890-3103-1	SS05	Total/NA	Solid	8021B	35720	4.9
890-3103-2	SS06	Total/NA	Solid	8021B	35720	13
890-3103-3	SS07	Total/NA	Solid	8021B	35720	
890-3103-4	FS01	Total/NA	Solid	8021B	35720	14
890-3103-5	FS02	Total/NA	Solid	8021B	35720	
890-3103-6	FS03	Total/NA	Solid	8021B	35720	
890-3103-7	FS04	Total/NA	Solid	8021B	35720	
890-3103-8	SW01	Total/NA	Solid	8021B	35720	
890-3103-9	SW02	Total/NA	Solid	8021B	35720	
MB 880-35720/5-A	Method Blank	Total/NA	Solid	8021B	35720	
LCS 880-35720/1-A	Lab Control Sample	Total/NA	Solid	8021B	35720	
LCSD 880-35720/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	35720	
890-3103-1 MS	SS05	Total/NA	Solid	8021B	35720	
890-3103-1 MSD	SS05	Total/NA	Solid	8021B	35720	

### Analysis Batch: 35858

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3103-1	SS05	Total/NA	Solid	Total BTEX	
890-3103-2	SS06	Total/NA	Solid	Total BTEX	
890-3103-3	SS07	Total/NA	Solid	Total BTEX	
890-3103-4	FS01	Total/NA	Solid	Total BTEX	
890-3103-5	FS02	Total/NA	Solid	Total BTEX	
890-3103-6	FS03	Total/NA	Solid	Total BTEX	
890-3103-7	FS04	Total/NA	Solid	Total BTEX	
890-3103-8	SW01	Total/NA	Solid	Total BTEX	
890-3103-9	SW02	Total/NA	Solid	Total BTEX	

## GC Semi VOA

### Analysis Batch: 35736

Lab Sample ID 890-3103-1	Client Sample ID SS05	Prep Type Total/NA	Matrix Solid	Method 8015B NM	Prep Batch 35754
890-3103-2	SS06	Total/NA	Solid	8015B NM	35754
890-3103-3	SS07	Total/NA	Solid	8015B NM	35754

**Eurofins Carlsbad** 

## **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

### GC Semi VOA (Continued)

### Analysis Batch: 35736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3103-4	FS01	Total/NA	Solid	8015B NM	35754
890-3103-5	FS02	Total/NA	Solid	8015B NM	35754
890-3103-6	FS03	Total/NA	Solid	8015B NM	35754
890-3103-7	FS04	Total/NA	Solid	8015B NM	35754
890-3103-8	SW01	Total/NA	Solid	8015B NM	35754
890-3103-9	SW02	Total/NA	Solid	8015B NM	35754
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015B NM	35754
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	35754
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	35754
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	35754
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	35754

### Prep Batch: 35754

Lab Sample ID 890-3103-1	Client Sample ID	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch	
890-3103-2	SS06	Total/NA	Solid	8015NM Prep		
890-3103-3	SS07	Total/NA	Solid	8015NM Prep		
890-3103-4	FS01	Total/NA	Solid	8015NM Prep		
890-3103-5	FS02	Total/NA	Solid	8015NM Prep		
890-3103-6	FS03	Total/NA	Solid	8015NM Prep		
890-3103-7	FS04	Total/NA	Solid	8015NM Prep		
890-3103-8	SW01	Total/NA	Solid	8015NM Prep		
890-3103-9	SW02	Total/NA	Solid	8015NM Prep		
MB 880-35754/1-A	Method Blank	Total/NA	Solid	8015NM Prep		
LCS 880-35754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep		
LCSD 880-35754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep		
880-19834-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep		
880-19834-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep		

### Analysis Batch: 35857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3103-1	SS05	Total/NA	Solid	8015 NM	
890-3103-2	SS06	Total/NA	Solid	8015 NM	
890-3103-3	SS07	Total/NA	Solid	8015 NM	
890-3103-4	FS01	Total/NA	Solid	8015 NM	
890-3103-5	FS02	Total/NA	Solid	8015 NM	
890-3103-6	FS03	Total/NA	Solid	8015 NM	
890-3103-7	FS04	Total/NA	Solid	8015 NM	
890-3103-8	SW01	Total/NA	Solid	8015 NM	
890-3103-9	SW02	Total/NA	Solid	8015 NM	

### HPLC/IC

### Leach Batch: 35792

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-3103-1	SS05	Soluble	Solid	DI Leach	
890-3103-2	SS06	Soluble	Solid	DI Leach	
890-3103-3	SS07	Soluble	Solid	DI Leach	
890-3103-4	FS01	Soluble	Solid	DI Leach	
890-3103-5	FS02	Soluble	Solid	DI Leach	
890-3103-6	FS03	Soluble	Solid	DI Leach	

### **Eurofins Carlsbad**

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Job ID: 890-3103-1 SDG: 03D2024075

## **QC Association Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB

## HPLC/IC (Continued)

### Leach Batch: 35792 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3103-7	FS04	Soluble	Solid	DI Leach	
890-3103-8	SW01	Soluble	Solid	DI Leach	
890-3103-9	SW02	Soluble	Solid	DI Leach	
MB 880-35792/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-35792/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-35792/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3107-A-9-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3107-A-9-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Analysis Batch: 35813

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3103-1	SS05	Soluble	Solid	300.0	35792
890-3103-2	SS06	Soluble	Solid	300.0	35792
890-3103-3	SS07	Soluble	Solid	300.0	35792
890-3103-4	FS01	Soluble	Solid	300.0	35792
890-3103-5	FS02	Soluble	Solid	300.0	35792
890-3103-6	FS03	Soluble	Solid	300.0	35792
890-3103-7	FS04	Soluble	Solid	300.0	35792
890-3103-8	SW01	Soluble	Solid	300.0	35792
890-3103-9	SW02	Soluble	Solid	300.0	35792
MB 880-35792/1-A	Method Blank	Soluble	Solid	300.0	35792
LCS 880-35792/2-A	Lab Control Sample	Soluble	Solid	300.0	35792
LCSD 880-35792/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	35792
890-3107-A-9-D MS	Matrix Spike	Soluble	Solid	300.0	35792
890-3107-A-9-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	35792

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Job ID: 890-3103-1 SDG: 03D2024075

Job ID: 890-3103-1 SDG: 03D2024075

Matrix: Solid

**Matrix: Solid** 

Matrix: Solid

Lab Sample ID: 890-3103-1

Lab Sample ID: 890-3103-2

Lab Sample ID: 890-3103-3

Lab Sample ID: 890-3103-4

### **Client Sample ID: SS05** Date Collected: 09/28/22 13:15 Date Received: 09/28/22 16:21

Project/Site: Eata Fajita B CTB

Client: Ensolum

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 17:22	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 11:37	AJ	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:06	СН	EET MID

### **Client Sample ID: SS06** Date Collected: 09/28/22 13:05

Date Received: 09/28/22 16:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 17:48	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 11:59	AJ	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:10	СН	EET MID

### **Client Sample ID: SS07** Date Collected: 09/28/22 13:10 Date Received: 09/28/22 16:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 18:14	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 12:20	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:25	СН	EET MID

### **Client Sample ID: FS01** Date Collected: 09/28/22 13:30 Date Received: 09/28/22 16:21

	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	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 18:40	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID

**Eurofins Carlsbad** 

Matrix: Solid

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# Released to Imaging: 4/19/2023 2:40:24 PM

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Job ID: 890-3103-1 SDG: 03D2024075

Matrix: Solid

Matrix: Solid

# Lab Sample ID: 890-3103-4

Date Collected: 09/28/22 13:30 Date Received: 09/28/22 16:21

**Client Sample ID: FS01** 

Project/Site: Eata Fajita B CTB

**Client: Ensolum** 

	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			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 12:42	AJ	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:30	СН	EET MID

### **Client Sample ID: FS02** Date Collected: 09/28/22 13:35 Date Received: 09/28/22 16:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 19:06	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 13:04	AJ	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:35	CH	EET MID

### **Client Sample ID: FS03**

Date Collected: 09/28/22 13:40 Date Received: 09/28/22 16:21

	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	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 19:32	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 13:26	AJ	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:40	СН	EET MID

### **Client Sample ID: FS04** Date Collected: 09/28/22 13:45

Date	<b>Received:</b>	09/28/22 16:21	

<b>Prep Type</b> Total/NA Total/NA	Batch Type Prep Analysis	Batch Method 5035 8021B	Run	Dil Factor	Initial Amount 4.97 g 5 mL	Final Amount 5 mL 5 mL	Batch Number 35720 35814	Prepared or Analyzed 09/29/22 15:53 09/30/22 19:58	<mark>Analyst</mark> MNR AJ	Lab EET MID EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.02 g 1 uL	10 mL 1 uL	35754 35736	09/30/22 08:47 09/30/22 13:48	DM AJ	EET MID EET MID

**Eurofins Carlsbad** 

Matrix: Solid

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# Lab Sample ID: 890-3103-6

Lab Sample ID: 890-3103-7

Lab Sample ID: 890-3103-5

Matrix: Solid

Job ID: 890-3103-1 SDG: 03D2024075

Matrix: Solid

Matrix: Solid

Matrix: Solid

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Lab Sample ID: 890-3103-7

Lab Sample ID: 890-3103-8

Lab Sample ID: 890-3103-9

### **Client Sample ID: FS04** Date Collected: 09/28/22 13:45 Date Received: 09/28/22 16:21

Project/Site: Eata Fajita B CTB

**Client: Ensolum** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:44	СН	EET MID

### **Client Sample ID: SW01** Date Collected: 09/28/22 13:20 Date Received: 09/28/22 16:21

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 20:24	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 14:10	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:49	СН	EET MID

### Client Sample ID: SW02 Date Collected: 09/28/22 13:25 Date Received: 09/28/22 16:21

	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	35720	09/29/22 15:53	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	35814	09/30/22 20:50	AJ	EET MID
Total/NA	Analysis	Total BTEX		1			35858	09/30/22 20:54	AJ	EET MID
Total/NA	Analysis	8015 NM		1			35857	09/30/22 20:38	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	35754	09/30/22 08:47	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	35736	09/30/22 14:31	AJ	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	35792	09/30/22 10:35	SMC	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	35813	09/30/22 15:54	СН	EET MID

#### Laboratory References:

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

**Eurofins Carlsbad** 

## Released to Imaging: 4/19/2023 2:40:24 PM

**Accreditation/Certification Summary** 

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-3103-1 SDG: 03D2024075

### Laboratory: Eurofins Midland

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

uthority		ogram	Identification Number	Expiration Date
exas	NE	LAP	T104704400-22-24	06-30-23
The following analyte	are included in this reno	rt but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
the agency does not c	•			
• •	•	Matrix	Analyte	
the agency does not o	offer certification.		, , , , , ,	

**Eurofins Carlsbad** 

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Released to Imaging: 4/19/2023 2:40:24 PM

## **Method Summary**

Client: Ensolum Project/Site: Eata Fajita B CTB Job ID: 890-3103-1 SDG: 03D2024075

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

#### **Protocol References:**

ASTM = ASTM International

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:

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

## Sample Summary

Client: Ensolum Project/Site: Eata Fajita B CTB

ab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
90-3103-1	SS05	Solid	09/28/22 13:15	09/28/22 16:21	0.5'
90-3103-2	SS06	Solid		09/28/22 16:21	
90-3103-3	SS07	Solid		09/28/22 16:21	
90-3103-4	FS01	Solid	09/28/22 13:30	09/28/22 16:21	2'
90-3103-5	FS02	Solid	09/28/22 13:35	09/28/22 16:21	2'
90-3103-6	FS03	Solid	09/28/22 13:40	09/28/22 16:21	2'
90-3103-7	FS04	Solid	09/28/22 13:45	09/28/22 16:21	2'
90-3103-8	SW01	Solid		09/28/22 16:21	
90-3103-9	SW02	Solid	09/28/22 13:25	09/28/22 16:21	0 - 2'

Job ID: 890-3103-1 SDG: 03D2024075

		Environment Testing Xenco	esting	Mid	and, TX ( Paso, T)	idland, TX (432) 704-5440, San Antonio. TX (210) 509-33: EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	1-5440, S	, Lubbock	io, TX (2: , TX (806	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	4		4		Work Order No:		
				н	bbs, NM	(575) 39	2-7550,	Carlsbad,	NM (575	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	U U			www.xe	www.xenco.com	Page	of
Project Manager: Hadlig	Hadlie Green			Bill to: (if different)	rent)	Kalei	Kalei Jennings	s						Worl	Work Order Comments	mments	
	Ensolum, LLC			Company Name:	me:	Ensol	Ensolum, LLC					Program:	UST/P		Brownfl	Program: UST/PST 🗌 PRP 🗌 Brownfields 🗍 RRC 🗌	
	601 N Marienfeld St Suite 400	Suite 400		Address:		601 N	Marien	601 N Marienfeld St Suite 400	uite 400			State of Project:	roject:				
e ZIP:	Midland, TX 79701			City, State ZIP:		Midla	Midland, TX 79701	9701				Reporting	: Level I	Level		Reporting: Level II Level III PST/UST TRRP	
			Email:	Email: kjennings@ensolum.com, hgreen@ensolum.com	ensolur	n.com,	hgreei	)@ensc	lum.co	n		Deliverables: EDD	les: ED		ADaPT	Other:	ēr.
Project Name:	Eata Fajita B CTB	3 СТВ	Turr	Turn Around						ANALYSIS		REQUEST				Preser	Preservative Codes
Project Number:	03D2024075	075	Routine	Rush	Pres. Code				-						7	None: NO	DI Water: H <sub>2</sub> O
Project Location:			Due Date:	24 Hr											0	Cool: Cool	MeOH: Me
Sampler's Name:	Conner Shore	lore	TAT starts th	TAT starts the day received by	by				-	-	-	-	-	-	Ŧ	HCL: HC	HNO3: HN
PO #:			the lab, if red	the lab, if received by 4:30pm	-			_					=			H <sub>2</sub> S0 <sub>4</sub> : H <sub>2</sub>	NaOH: Na
SAMPLE RECEIPT	Temp Blank:	Res No	Wet Ice:	Cred No	nete	).0)									Ť	H3PO4: Hb	
Samples Received Intact:	(Mag No	Thermometer ID:	eter ID:	Frances	Р	300									7	NaHSO4: NABIS	SIB
Cooler Custody Seals:	Yes NO (NIA)		Factor:	0	10	EPA:			1088	890-3103 Chain	hain of Custody	stody			1 7	Na2S2U3: NASU3	503 S03
Sample Custody Seals: Total Containers:	Tes No Th	_	Corrected Temperature:	20	<u>_</u>	DES	15)	021	-	-	-	-	-	_	Z	NaOH+Ascorbic Acid: SAPC	bic Acid: S
Sample Identification	tion Matrix		Time Sampled	Depth Grab/ Comp	np Cont		TPH (80	BTEX (8								Sampl	Sample Comments
SS05	S	09.28.22	1315	0.5' G		×	×	×									
SS06	S	09.28.22	1305	0.5' G		×	×	×					+-				
SS07	s	09.28.22	1310	0.5' G	4.2	×	×	×	┢				┢			Incid	Incident Number
FS01	S	09.28.22	1330	2 <u>.</u> C	12	×	×	×	+				+-	1	+-	NAPP	NAPP2220244157
FS02	S	09.28.22	1335	2' C	130	×	×	×	-			<b> </b>	┢		┝		
FS03	S	09.28.22	1340	2 <u>.</u> C	120	×	×	×	-			-	┢		┢╴		
FS04	S	09.28.22	1345	2' C	14	×	×	×	$\left  \right $		-		╞				
SW01	s	00.28.22	1320	2 <u></u>	140	۲ ۲	*	*	$\left  \right $				$\dagger$				
SW02	S	09.28.22	1325	2 <sup>2</sup>	1505	×	×	×	-				-				
625					-			-	-								
Total 200.7 / 6010	200.8 / 6020:		8RCRA 13	13PPM Texas 11	11 A	Sb As	Ba	Be B Cd	ဂ္မ	Cr Co C	Cu Fe Pb I	Mg Mn Mo Ni K	Ao Ni	Se	Ag SiO <sub>2</sub> Na	Sr TI Sn U	U V Zn
Circle Method(s) and Metal(s) to be analyzed	stal(s) to be ana	alyzed	TCLP / S	TCLP / SPLP 6010: 8RCRA	8RCRA	Sp /	As Ba	Be Cd	Cd Cr Co	Cu Pb Mn	Mn Mo 7	Mo Ni Se Ag TI U	Ч С	I	g: 1631 / 2	Hg: 1631 / 245.1 / 7470 / 7471	) /7471
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiat	ent and relinquishm be liable only for the charge of \$85.00 will	ent of samples cost of samples be applied to ea	onstitutes a valid and shail not ass ch project and a	purchase order f ume any respon charge of \$5 for e	from client sibility for each samp	t compan any loss le submit	y to Euro es or exp tted to Eu	fins Xenco enses Incu rofins Xen	, its affilia irred by th co, but no	tes and sut he client if s it analyzed.	contra uch los These	ctors. It assigns standard terms and conditions ases are due to circumstances beyond the control terms will be enforced unless previously negotiated.	andard te umstance ced unles:	rms and cor s beyond the previously	ditions control negotiated.		
Relinquished by: (Signature)	nature)	Receiv	Received by: (Signature)	ature)		Date	Date/Time		Relinq	Relinquished by: (Si	/: (Sig	re)	Rec	eived by:	Received by: (Signature)		Date/Time
	97	marel	e a	Stert	191	28/22		1222									
				0				4									

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Chain of Custody

Job Number: 890-3103-1 SDG Number: 03D2024075

List Source: Eurofins Carlsbad

### Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

#### Login Number: 3103 List Number: 1 Creator: Stutzman, Amanda

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

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Job Number: 890-3103-1 SDG Number: 03D2024075

List Source: Eurofins Midland

List Creation: 09/30/22 10:28 AM

### Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

#### Login Number: 3103 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	

cia

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# APPENDIX E

**NMOCD** Notifications

From:	Nobui, Jennifer, EMNRD
То:	Kalei Jennings
Cc:	Bratcher, Mike, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	FW: [EXTERNAL] Containment Inspection - Eata Fajita B CTB (Incident Number NAPP2220244157)
Date:	Monday, August 22, 2022 11:24:27 AM
Attachments:	image001.png image002.png image003.png image004.png

### [ \*\*EXTERNAL EMAIL\*\*]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Monday, August 22, 2022 10:16 AM
To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD
<Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>;
Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD
<Nelson.Velez@state.nm.us>
Subject: Fw: [EXTERNAL] Containment Inspection - Eata Fajita B CTB (Incident Number
NAPP2220244157)

From: Kalei Jennings <<u>kjennings@ensolum.com</u>>
Sent: Monday, August 22, 2022 9:18 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@state.nm.us</u>>
Subject: [EXTERNAL] Containment Inspection - Eata Fajita B CTB (Incident Number
NAPP2220244157)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Below is a 48-hour email notification for liner inspection at ConocoPhillips (COP) Eata Fajita B CTB (Incident Number NAPP2220244157) / Spill Date 07/12/2022. This is a 48-hour notification that Ensolum is scheduled to inspect this lined containment on behalf of COP on Thursday August 25, 2022, at 8:30 MST. Please call with any questions or concerns.

GPS: 32.22607, -103.59196

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

From:	Nobui, Jennifer, EMNRD
То:	Kalei Jennings
Cc:	Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD; Harimon, Jocelyn, EMNRD
Subject:	FW: [EXTERNAL] COP- Sampling Notification (Week of 09/26/22-09/30/22)
Date:	Thursday, September 22, 2022 3:13:44 PM
Attachments:	image001.png image002.png image003.png image004.png
	image001.png image002.png

### [ \*\*EXTERNAL EMAIL\*\*]

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks, Jennifer Nobui

From: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> Sent: Thursday, September 22, 2022 2:08 PM To: Bratcher, Michael, EMNRD < mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>; Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: Fw: [EXTERNAL] COP- Sampling Notification (Week of 09/26/22-09/30/22)

From: Kalei Jennings <<u>kjennings@ensolum.com</u>> Sent: Thursday, September 22, 2022 2:07 PM To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>> **Subject:** [EXTERNAL] COP- Sampling Notification (Week of 09/26/22-09/30/22)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

COP plans to complete final sampling activities at the following sites the week of September 26, 2022.

Monday:

Windward 4H Flowline / NAPP2218850477

Tuesday:

Wednesday:

- Zia Hills 1A/B BTF / NAPP2216037138
- Eata Fajita / NAPP2220244157

Thursday:

• Zia Hills 1A/B BTF / NAPP2216037138

Friday:

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC



# APPENDIX F

Final C-141

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**Released to Imaging: 4/19/2023 2:40:24 PM** 

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

)

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Incident ID	NAPP2220244157
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### **Location of Release Source**

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: \_

## Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

#### 1 + 1

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

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

All free liquids and recoverable materials have been removed and managed appropriately.

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### Oil Conservation Division

Incident ID	NAPP2220244157
District RP	
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Application ID	

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

## **Initial Response**

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

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

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

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

Printed Name	Title:
Signature: _ Partiane Jospanger	Date:
email:	Telephone:
OCD Only	
Received by: Jocelyn Harimon	Date:07/21/2022

L48 S	pill Vo	ume E	Estimate	Form
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NAPP2220244157	
NAPP2220244157	118

<b>Received by OCD:</b>	10/10/	2022 9	:37:28 AM nber:	r: Eata fajita B								
			Asset Area:	Delaware basin eas	aware basin east north							
Release Discovery Date & Time:		7/12/2022 8:00AM										
Release Type:		Oil Mixture										
Provide any known details about the event:		Man way gasket or	back of KO faile	d								
					Spil	Calculation	- On Pad Surfac	e Pool Spill				
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)		Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	116.0	58.0	1.00	3	6728.000	0.028	33.266	0.001	33.312	25.00%	8.328	24.984
Rectangle B	52.0	55.0	2.00	3	2860.000	0.056	28.282	0.003	28.361	25.00%	7.090	21.271
Rectangle C				5)	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle D			8	9).	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle E			9	55	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle F	:			5.	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle G			9	5.	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle H	e			53	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle I			9	5)	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Released to Imagin	ng: 4/1	9/2023	2:40:24 PM	8	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
	0							Total Volume Release:	61.673		15.418	46.255

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

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

District III

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

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

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave	Action Number:	
Midland, TX 79701	127773	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	
CONDITIONS		

#### CONDITIONS

Created By		Condition Date
jharimon	None	7/21/2022

Action 127773

Received by OCD: 10/10/2022 9:37:28 AM Form C-141 State of New Mexico

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Oil Conservation Division

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

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- $\square$  Depth to water determination
- Determination of water sources and significant watercourses within <sup>1</sup>/<sub>2</sub>-mile of the lateral extents of the release
- $\boxtimes$  Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD: 10/1	0/2022 9:37:28 AM State of New Mexico			Page 132 of 13
			Incident ID	NAPP2220244157
Page 4	Oil Conservation Division	Conservation Division		
			Application ID	
regulations all operators public health or the envir failed to adequately inve addition, OCD acceptand and/or regulations. Printed Name:Ch Signature: <u>Charles</u> Z	information given above is true and complete to the are required to report and/or file certain release no ronment. The acceptance of a C-141 report by the estigate and remediate contamination that pose a th ce of a C-141 report does not relieve the operator of arles Beauvais	otifications and perform co OCD does not relieve the reat to groundwater, surfa of responsibility for compl	orrective actions for rele e operator of liability shi ce water, human health liance with any other fee onmental Engineer	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only Received by:Joc	elyn Harimon	Date:10,	/10/2022	

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Oil Conservation Division

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## Closure

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

<b><u>Closure Report Attachment Checklist</u>: Each of the following iter</b>	ns must be included in the closure report.
$\square$ A scaled site and sampling diagram as described in 19.15.29.11	-
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain n may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the cond accordance with 19.15.29.13 NMAC including notification to the OC Printed Name:Charles Beauvais T	C-141 report by the OCD does not relieve the operator of liability diate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in D when reclamation and re-vegetation are complete.
Signature: Charles R. Beauvais 99 D	Date:10/10/2022
email: <u>Charles.R.Beauvais@conocophillips.com</u> T	elephone:575-988-2043
OCD Only Jocelyn Harimon Received by:	10/10/2022 Date:
	I liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.
Closure Approved by: <u>Michael Buchanan</u>	Date:04/19/2023
Printed Name:Mike Buchanan	Title: Environmental Specialist

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

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District IV

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

## **State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	149779
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Closure Report Approved. Please implement 19.15.29.13 NMAC when completing P&A.	4/19/2023

Action 149779