



May 24, 2023

New Mexico Oil Conservation Division

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

Re: Closure Request

Bandit 15 Federal Com 002

Incident Number NAPP2307544597

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 assessment, excavation, and soil sampling activities performed at the Bandit 15 Federal Com 002 (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water and crude oil into an unlined earthen storage tank containment. Based on the excavation activities and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2307544597.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 15, Township 20 South, Range 33 East, in Lea County, New Mexico (32.5710°, -103.6489°) and is associated with oil and gas exploration and production operations on Federal land managed by the Bureau of Land Management (BLM).

On March 2, 2023, a corrosion hole in a storage tank resulted in the release of approximately 18.7 barrels (bbls) of produced water and 0.19 bbls of crude oil into the unlined earthen secondary containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 16.83 bbls of produced water and 0.17 bbls of crude oil were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on March 16, 2023. The release was assigned Incident Number NAPP2307544597.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

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

COG Operating, LLC Closure Request Bandit 15 Federal Com 002

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on a recent boring drilled for determination of regional goundwater depth. On April 12, 2023, a borehole (BH01) was advanced to a depth of 108 feet bgs via hollow stem auger drill rig. The borehole was located approximately 257 feet northwest of the Site and is depicted on Figure 1. A field geologist logged and described soils continuously. The borehole lithologic/soil sampling log is included in Appendix A. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed that groundwater beneath the Site is greater than 100 feet bgs. The borehole was properly abandoned using drill cuttings and hydrated bentonite chips. All wells used for depth to groundwater determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 2.5 miles west of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and less than 300 feet from an occupied residence, school, hospital, institution, or church. The site is greater than 300 feet from a wetland. The Site is greater than 1,000 feet from a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On April 3, 2023, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine assessment soil samples (SS01 through SS09) were collected within and around the release extent at a depth of approximately 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and 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 strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): 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.



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Closure Request
Bandit 15 Federal Com 002

Laboratory analytical results for soil samples SS06 through SS09, collected around the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for soil sample SS03, collected within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for soil samples SS01, SS02, SS04, and SS05, collected within the release extent, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for the soil samples, excavation of impacted soil was warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between April 24, 2023, and May 3, 2023, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by field screening activities and laboratory analytical results for soil samples SS01, SS02, SS04, and SS05. Excavation activities were performed via back-hoe, hydrovac, hand shoveling, and transport vehicles. To direct excavation activities, soil was field screened for VOCs and chloride as described above. The excavation was completed to depths ranging from 1-foot bgs to 1.25 feet bgs. Photographic documentation is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavation extent. 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. Due to the shallow depth of the excavation, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS07 were collected from the floor of the excavation at a depth of 1-foot bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results for excavation soil samples FS01, FS02, and FS04 through FS07, indicated all COC concentrations were compliant with the Site Closure Criteria and met the most stringent Table I Closure Criteria. Laboratory analytical results for excavation soil sample FS03 indicated all COC concentrations were compliant with the Site Closure Criteria but exceeded the most stringent Table I Closure Criteria. Additional soil was removed in the vicinity of floor sample FS03 and subsequent floor sample FS03A, collected at a depth of 1.25 feet bgs, met the most stringent Table I Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation measured approximately 1,288 square feet in aerial extent. A total of approximately 60 cubic yards of impacted soil was removed during the excavation activities. The soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. The excavation was secured with fencing once the excavation was complete.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the March 2, 2023, produced water and crude oil release. Laboratory analytical results for the excavation soil samples indicated all COC concentrations were compliant with the Site Closure Criteria and met the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 100 feet bgs and no other sensitive receptors were identified near



COG Operating, LLC Closure Request Bandit 15 Federal Com 002

the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2307544597. The Final C-141 is included in Appendix E.

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

Aimee Cole

Sincerely, **Ensolum, LLC**

Hadlie Green Project Geologist

Project Geologist Senior Managing Scientist

cc: Jacob Laird, COG Operating, LLC Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

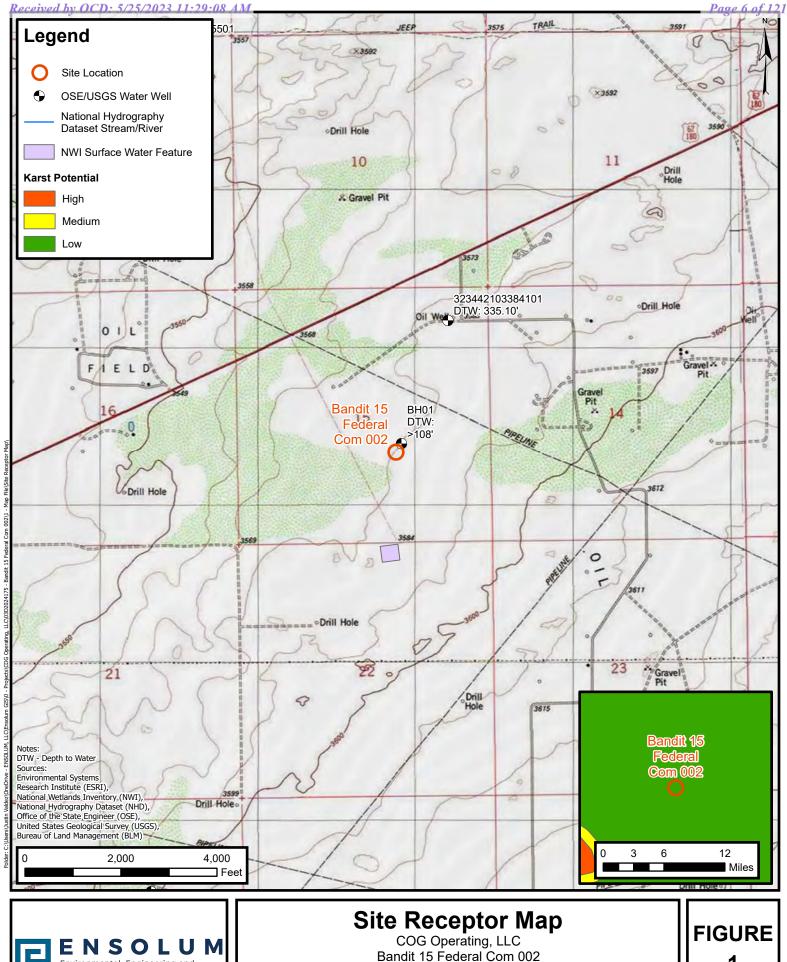
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Notifications

Appendix E Final C-141



FIGURES





Bandit 15 Federal Com 002 Incident Number: NAPP2307544597 Unit J, Sec 15, T20S, R33E Lea County, New Mexico

Released to Imaging: 8/11/2023 2:10:14 PM

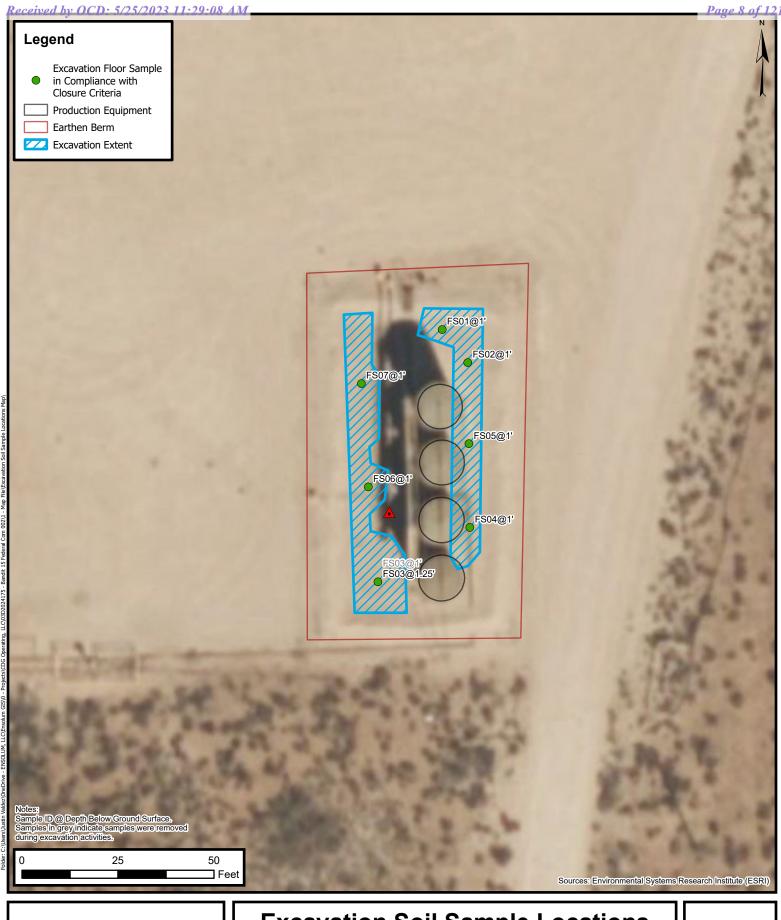




Preliminary Soil Sample LocationsCOG Operating, LLC

COG Operating, LLC
Bandit 15 Federal Com 002
Incident Number: NAPP2307544597
Unit J, Sec 15, T20S, R33E
Lea County, New Mexico

FIGURE 2





Excavation Soil Sample LocationsCOG Operating, LLC

COG Operating, LLC Bandit 15 Federal Com 002 Incident Number: NAPP2307544597 Unit J, Sec 15, T20S, R33E Lea County, New Mexico FIGURE 3



TABLES

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Bandit 15 Federal Com 002

COG Operating, LLC
Lea County, New Mexico

Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	y Assessment Sc	oil Samples				
SS01	04/03/2023	0.5	0.00223	0.00485	<249	10,400	1,270	10,400	11,700	11,000
SS02	04/03/2023	0.5	<0.00200	<0.00399	<49.9	514	80.5	514	595	23,100
SS03	04/03/2023	0.5	<0.00200	<0.00401	<49.8	57.6	<49.8	57.6	57.6	19,800
SS04	04/03/2023	0.5	<0.00199	<0.00398	<49.9	2,070	516	2,070	2,590	29,700
SS05	04/03/2023	0.5	<0.00199	<0.00398	<249	16,100	2,360	16,100	18,500	13,400
SS06	04/03/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	255
SS07	04/03/2023	0.5	<0.00201	<0.00402	<49.8	<49.8	98.7	<49.8	98.7	65.3
SS08	04/03/2023	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	131
SS09	04/03/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	115
				Exc	avation Soil Sam	ples				
FS01	04/24/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	419
FS02	04/24/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	174
FS03	04/24/2023	1	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	705
FS03A	05/03/2023	1.25	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	278
FS04	04/24/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	455
FS05	04/24/2023	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	214
FS06	04/24/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	81.8
FS07	04/24/2023	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	217

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

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 I Closure Criteria or reclamation standard where applicable.

Grey text represents samples that have been excavated



APPENDIX A

Referenced Well Records

								Sample Name: BH01 Date: 4/12/2023		
	7		N		OL			Site Name: Bandit 15 Federal Com 002H		
						_ 0		Incident Number:		
								Job Number: 03D2024108		
		LITHOL	OGI	C / SOIL S	SAMPLING	LOG		Logged By: Peter Van Patten Method: Air Rotary		
Coordi	nates: 32	2.340567	,-103.	639398				Hole Diameter: Total Depth: 108'		
Comm	Comments:									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
Dry	-	-	N	-	- 1	0	SP-SM	Sand (surface sample): dark tan, brown, fine grain, poorly graded, few gravel, no stain, no odor		
Dry	-	-	N	-	- 1	10	СННЕ	Caliche: off white, light tan, pinkish tan, no stain, no odor		
Dry	-	-	N	-	- - -	20	СННЕ	SAA (Same as above)		
Dmp	-	-	N	-		30 	SP-SM	Sand: light tan, tan, fine grain, poorly graded, few gravel, slightly damp, no stain, no odor		
Dry	-	-	N	-	- - -	- _ 40 -	SP-SM	Sand/Silt (Red Beds): brownish red, very fine - clay grain, poorly graded, low plasticity, cohesive, no stain, no odor		
Dry	-	-	N	-	- - -	50 -	SP-SM	Sand/Silt: reddish brown, gray banding, very fine- silt grain, slightly cohesive, no stain no odor		
Dry	-	-	N	-	 - -	60 -	SP-SM	SAA		
Dry	-	-	N	-	 - -	70 - 70	SP-SM	SAA		
Dry	-	-	N	-	 - -	80 -	SP-SM	SAA		
Dry	-	-	N	-	 - -	- _ 90 -	SP-SM	Sand/Silt: reddish tan, gray, rusty red, very fine grain, poorly graded, non cohesive, no stain, no odor		
Dry	-	-	N	-	 - -	100	SP-SM			
					- - -	110		TD at 108' below ground surface		
					_	- 120				

WELL RECORD & LOG OFFICE OF THE STATE ENGINEER www.ose.state.nm.us

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1.0	i		TOWNSHIP 20S 1					, ,				
	LICENSE NO		NAME OF LICENSEI		COD EDIECCEN	,			NAME OF WELL D			
	DRILLING S		DRILLING ENDED		COB FRIESSEN		DODE HOL	LE DEPTH (FT)	DEPTH WATER FI		GURD	
	DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE 2-8-21 2-8-21 105							105	DEPIH WAIEKFII		0	
	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINE)							· · · · · · · · · · · · · · · · · · ·	STATIC WATER LE			LL (FT)
NO											0	
(AT	DRILLING FLUID: AIR MUD ADDITIVES - SPECIFY:											
OR	DRILLING M		ROTARY	HAMMER	CABLE TO		OTHE	R SPECIFY:				
SINI	DEPTH FROM	(feet bgl)	BOKE HOLE	CASING N	MATERIAL AND/ GRADE				CASING		SING WALL	SLOT
SINC	FROM	10	DIAM (inches)		ach casing string, a	and	T	YPE	INSIDE DIAM. (inches)	"	HICKNESS (inches)	SIZE (inches)
2. DRILLING & CASING INFORMATION	-1	99	4.5		LANK PVC			AD 2.375	2	+	.187	
ING.	99	105	4.5	SC	CREEN PVC		THRE	AD 2.375	2		.187	.02
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2. DF				 		\rightarrow				+		
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	DEPTH	(feet bgl)	BORE HOLE	LIS	T ANNULAR SEA	AL MAT	TRIAL A	ND	AMOUNT		метно	D.OF
AL	FROM	то	DIAM. (inches)	1	EL PACK SIZE-F				(cubic feet)		PLACEM	
rer	0	99	4.5		GRO	UT			8		POUR	ED
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PAGE 2 OF 2

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	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTE INCLUDE WATER-BEARING CAVITIES OR FRACTU (attach supplemental sheets to fully describe all	JRE ZONES	WATER BEARING? (YES/NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	2	2	TOPSOIL		Y VN	
	2	21	19	CALICHE		Y VN	
	21	48	27	SAND	Y VN		
	48	66	18	RED CLAY		Y VN	
	66	77	11	SAND		Y VN	
دا	77	89	12	RED CLAY	:	Y VN	
VEL	89	105	16	BLUE CLAY		Y VN	
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VISI	MISCELLA	NEOUS INF	ORMATION:				
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EST	PPINT NAA	Æ(S) OF D	DILL DIC CURED	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF W	VELL CONCEDIA	CTION OTHER TH	AN LICENSEE.
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6. SIGN	2		5-	JACOB FRIESSEN		7-13-21	
		SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
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LOCATION



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USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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

USGS 323442103384101 20S.33E.15.22143

Available data for this site SUMMARY OF ALL AVAILABLE DATA ➤ GO

Well Site

DESCRIPTION:

Latitude 32°34'42", Longitude 103°38'41" NAD27

Lea County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,583 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1955-04-20	1955-04-20	1

Unavailable (site:0) (timeseries:0)

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=323442103384101

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

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Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 323442103384101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 323442103384101 20S.33E.15.22143

Lea County, New Mexico
Latitude 32°34'42", Longitude 103°38'41" NAD27
Land-surface elevation 3,583 feet above NAVD88
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

Output formats

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

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1955-04-20		D	62610		3246.35	NGVD29	1	Z			А
1955-04-20		D	62611		3247.90	NAVD88	1	Z			А
1955-04-20		D	72019	335.10			1	Z			Α

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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

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APPENDIX B

Photographic Log



Photographic Log

COG Operating, LLC
Bandit 15 Federal Com 002
Incident Number NAPP2307544597





Date:

4/3/2023

Date: 4/25/2023

Photograph: 1 Date: 3/2/2023

Description: Initial release extent

View: Southeast

Photograph: 2

Description: Initial assessment activities

View: Northwest





Photograph: 3 Date: 4/25/2023

Description: Excavation activities

View: South

Photograph: 4

Description: Excavation activities

View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green

Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 4/18/2023 10:25:06 AM Revision 1

JOB DESCRIPTION

Bandit 15 Federal Com #2 SDG NUMBER 03D2024175

JOB NUMBER

890-4462-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 4/18/2023 10:25:06 AM Revision 1

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

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Client: Ensolum
Project/Site: Bandit 15 Federal Com #2
Laboratory Job ID: 890-4462-1
SDG: 03D2024175

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Definitions/Glossary

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2

SDG: 03D2024175

Qualifiers

GC VOA Qualifier

Qualifier Description *+ LCS and/or LCSD is outside acceptance limits, high biased. S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL **Practical Quantitation Limit**

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

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Case Narrative

Client: Ensolum

Job ID: 890-4462-1 SDG: 03D2024175 Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4462-1

REVISION

The report being provided is a revision of the original report sent on 4/11/2023. The report (revision 1) is being revised due to Per client email, requesting TPH re run.

Receipt

The samples were received on 4/3/2023 4:09 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4462-1), SS02 (890-4462-2), SS03 (890-4462-3), SS04 (890-4462-4), SS05 (890-4462-5), SS06 (890-4462-6), SS07 (890-4462-7), SS08 (890-4462-8) and SS09 (890-4462-9).

GC VOA

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-50805 and analytical batch 880-50769 recovered outside control limits for the following analytes: o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-4436-A-1-K). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS06 (890-4462-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS01 (890-4462-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-50535 and analytical batch 880-50654 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: SS05 (890-4462-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Client: Ensolum

Job ID: 890-4462-1

Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS01 Lab Sample ID: 890-4462-1 Date Collected: 04/03/23 09:20 Matrix: Solid Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.00223		0.00199	mg/Kg		04/10/23 10:30	04/11/23 03:38	
Toluene	0.00262		0.00199	mg/Kg		04/10/23 10:30	04/11/23 03:38	•
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 03:38	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 03:38	
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/10/23 10:30	04/11/23 03:38	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 03:38	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			04/10/23 10:30	04/11/23 03:38	
1,4-Difluorobenzene (Surr)	103		70 - 130			04/10/23 10:30	04/11/23 03:38	
Method: TAL SOP Total BTE	X - Total BTE	X Calcula	tion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.00485		0.00398	mg/Kg			04/11/23 10:21	-
Method: SW846 8015 NM - E Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	11700	Qualifier	249	mg/Kg		Fiepaieu	04/09/23 22:35	DII Fat
Method: SW846 8015B NM -	_	•	, , ,					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		04/05/23 16:03	04/07/23 18:06	
Diesel Range Organics (Over C10-C28)	10400		249	mg/Kg		04/05/23 16:03	04/07/23 18:06	ţ
Oll Range Organics (Over C28-C36)	1270		249	mg/Kg		04/05/23 16:03	04/07/23 18:06	ţ
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	100		70 - 130			04/05/23 16:03	04/07/23 18:06	
o-Terphenyl	185	S1+	70 - 130			04/05/23 16:03	04/07/23 18:06	
Method: EPA 300.0 - Anions	, Ion Chroma	tography -	- Soluble					

Client Sample ID: SS02 Lab Sample ID: 890-4462-2 Matrix: Solid

100

mg/Kg

11000

Date Collected: 04/03/23 09:25 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 03:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 03:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 03:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/10/23 10:30	04/11/23 03:59	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/10/23 10:30	04/11/23 03:59	1
Xylenes, Total	< 0.00399	U	0.00399	mg/Kg		04/10/23 10:30	04/11/23 03:59	1

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04/09/23 16:32

Client Sample Results

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS02

Da Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Total BTEX

Client Sample ID: SS02	Lab Sample ID: 890-4462-2
ate Collected: 04/03/23 09:25	Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	04/10/23 10:30	04/11/23 03:59	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/10/23 10:30	04/11/23 03:59	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	;
Method: TAL SOP Total BTEX - 1	Total BTEX Calculat	ion						
1,4-Difluorobenzene (Surr)	91	70 - 130		(04/10/23 10:30	04/11/23 03:59	1	!

0.00399

mg/Kg

<0.00399 U

Method: SW846 8015 NM - Dies	sel Range C	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	595		49.9	mg/Kg			04/09/23 22:35	1

Method: SW846 8015B NM - Analyte	Result Qua		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9 U	49.9	mg/Kg	_ =	04/05/23 16:03		1
Diesel Range Organics (Over C10-C28)	514	49.9	mg/Kg		04/05/23 16:03	04/07/23 18:27	1
Oll Range Organics (Over C28-C36)	80.5	49.9	mg/Kg		04/05/23 16:03	04/07/23 18:27	1
Surrogate	%Recovery Qua	alifier Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzea	DII Fac
1-Chlorooctane	95	70 - 130	04/05/23 16:03	04/07/23 18:27	1
o-Terphenyl	99	70 - 130	04/05/23 16:03	04/07/23 18:27	1
<u> </u>					

method. Li A 300.0 - Amons, fon omonatography - Soluble							
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23100	250	mg/Kg			04/09/23 16:37	50

Client Sample ID: SS03 Lab Sample ID: 890-4462-3 Date Collected: 04/03/23 09:30 Matrix: Solid

Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		04/10/23 10:30	04/11/23 04:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			04/10/23 10:30	04/11/23 04:19	1
1,4-Difluorobenzene (Surr)	78		70 - 130			04/10/23 10:30	04/11/23 04:19	1

Method: IAL SOP Total BTEX - Total BTEX Calculation								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			04/11/23 10:21	1

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Client Sample Results

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Da Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Client Sample ID: SS03	Lab Sample ID: 890-4462-3
Date Collected: 04/03/23 09:30	Matrix: Solid

Method: SW846 8015 NM - Die Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57.6		49.8	mg/Kg			04/09/23 22:35	1
- Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/05/23 16:03	04/07/23 18:48	1
Diesel Range Organics (Over C10-C28)	57.6		49.8	mg/Kg		04/05/23 16:03	04/07/23 18:48	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/05/23 16:03	04/07/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			04/05/23 16:03	04/07/23 18:48	1
o-Terphenyl	100		70 - 130			04/05/23 16:03	04/07/23 18:48	1

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac 19800 249 mg/Kg 04/09/23 16:50 **Chloride** Lab Sample ID: 890-4462-4

Client Sample ID: SS04

Date Collected: 04/03/23 09:35 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 04:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			04/10/23 10:30	04/11/23 04:40	1
1,4-Difluorobenzene (Surr)	80		70 - 130			04/10/23 10:30	04/11/23 04:40	1
- Method: TAL SOP Total BT	EX - Total BTE	X Calculat	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/11/23 10:21	1
Method: SW846 8015 NM -	Diesel Range	Organics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	2590		49.9	mg/Kg			04/09/23 22:49	1
Method: SW846 8015B NM	- Diesel Range	Organics	(DRO) (GC)					

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04/06/23 15:38 04/09/23 05:01

04/06/23 15:38 04/09/23 05:01

04/06/23 15:38 04/09/23 05:01

49.9

49.9

49.9

mg/Kg

mg/Kg

mg/Kg

Matrix: Solid

<49.9 U

2070

516

Gasoline Range Organics

Diesel Range Organics (Over

Oll Range Organics (Over

(GRO)-C6-C10

C10-C28)

C28-C36)

Job ID: 890-4462-1

Client: Ensolum Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS04

Lab Sample ID: 890-4462-4

Date Collected: 04/03/23 09:35 Date Received: 04/03/23 16:09

Matrix: Solid

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/06/23 15:38	04/09/23 05:01	1
o-Terphenyl	93		70 - 130	04/06/23 15:38	04/09/23 05:01	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier Unit Prepared Analyzed Dil Fac 29700 253 04/09/23 16:55 Chloride mg/Kg

Client Sample ID: SS05 Lab Sample ID: 890-4462-5 Date Collected: 04/03/23 09:40 **Matrix: Solid**

Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
o-Xylene	< 0.00199	U *+	0.00199	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/10/23 10:30	04/11/23 05:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			04/10/23 10:30	04/11/23 05:00	1
1,4-Difluorobenzene (Surr)	105		70 - 130			04/10/23 10:30	04/11/23 05:00	1

Method: TAL SOP Total BTEX -	Total BTE	X Calculati	ion					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/11/23 10:21	1

Method: SW846 8015 NM - Diesel	Range	Organics (DI	RO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	18500		249	mg/Kg			04/09/23 22:49	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		04/06/23 15:38	04/09/23 04:40	5
Diesel Range Organics (Over C10-C28)	16100		249	mg/Kg		04/06/23 15:38	04/09/23 04:40	5
Oll Range Organics (Over C28-C36)	2360		249	mg/Kg		04/06/23 15:38	04/09/23 04:40	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	122	70 - 130	04/06/23 15:38 04/09/23 04:40	5
o-Terphenyl	281 S1+	70 - 130	04/06/23 15:38 04/09/23 04:40	5
-	1 01	0.1.1.1.		

Method: EPA 300.0 - Anions, I	on Chromatography - 🤅	Soluble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13400	100	mg/Kg			04/09/23 16:59	20

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS06 Lab Sample ID: 890-4462-6

Date Collected: 04/03/23 09:45 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/10/23 10:30	04/11/23 05:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			04/10/23 10:30	04/11/23 05:21	1
1,4-Difluorobenzene (Surr)	76		70 - 130			04/10/23 10:30	04/11/23 05:21	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg	<u> </u>		04/11/23 10:21	1
Charles I OMO 40 CO45 NM D		.	(DDO) (OO)					

Method: 544846 8015 NW - Dies	sei Range Orga	anics (DRO) (GC)					
Analyte	Result Qua	lifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			04/09/23 22:49	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 22:36	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 22:36	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			04/06/23 15:38	04/08/23 22:36	1

 Method: EPA 300.0 - Anions, Id	on Chromat	ography	Salubla					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	255		5.01	mg/Kg			04/09/23 17:04	1

70 - 130

105

Client Sample ID: SS07 Lab Sample ID: 890-4462-7

Date Collected: 04/03/23 09:50 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/10/23 10:30	04/11/23 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130			04/10/23 10:30	04/11/23 05:41	1

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04/06/23 15:38 04/08/23 22:36

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4462-1
Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS07 Lab Sample ID: 890-4462-7

Date Collected: 04/03/23 09:50

Date Received: 04/03/23 16:09

Matrix: Solid

Sample Depth: 0.5'

Surrogate	%Recovery Q	Qualifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	96	70 - 130	04/10/23 10:30	04/11/23 05:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg	_		04/11/23 10:21	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	98.7		49.8	mg/Kg			04/09/23 22:49	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		04/06/23 15:38	04/08/23 22:57	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		04/06/23 15:38	04/08/23 22:57	1
Oll Range Organics (Over C28-C36)	98.7		49.8	mg/Kg		04/06/23 15:38	04/08/23 22:57	1

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	95	70 - 130	04/06/23 15:38	04/08/23 22:57	1
o-Terphenyl	96	70 - 130	04/06/23 15:38	04/08/23 22:57	1

Method: EPA 300.0 - Anions,	Ion Chromatography - Soluble
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Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.3		5.00	mg/Kg			04/09/23 17:08	1

Client Sample ID: SS08

Lab Sample ID: 890-4462-8

Matrix: Solid

Date Collected: 04/03/23 09:55 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

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

Welliou. Swo40 ouz ib - ve	name Organic	Compoun	us (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
o-Xylene	<0.00202	U *+	0.00202	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/10/23 10:30	04/11/23 06:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130			04/10/23 10:30	04/11/23 06:01	1
1.4-Difluorobenzene (Surr)	93		70 - 130			04/10/23 10:30	04/11/23 06:01	1

Method: TAL SO	Total RTEY _	Total RTEY (Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total BTEX	<0.00403	П	0.00403	ma/Ka			04/11/23 10:21		

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Job ID: 890-4462-1

Client: Ensolum Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS08

Date Collected: 04/03/23 09:55 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Lab Sample ID: 890-4462-8

Matrix: Solid

04/09/23 17:13

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/09/23 22:49	1
Method: SW846 8015B NM - D	iesel Range	Organics	(DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 23:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 23:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/06/23 15:38	04/08/23 23:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			04/06/23 15:38	04/08/23 23:19	1
o-Terphenyl	106		70 - 130			04/06/23 15:38	04/08/23 23:19	1
Method: EPA 300.0 - Anions, I	on Chromat	ography -	Soluble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS09 Lab Sample ID: 890-4462-9 **Matrix: Solid**

5.00

mg/Kg

131

Date Collected: 04/03/23 10:00 Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
m-Xylene & p-Xylene	< 0.00396	U	0.00396	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		04/10/23 10:30	04/11/23 06:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/10/23 10:30	04/11/23 06:22	1
1,4-Difluorobenzene (Surr)	81		70 - 130			04/10/23 10:30	04/11/23 06:22	1
Method: TAL SOP Total BTEX	(- Total BTE	X Calculat	ion					
				Unit	п	Droparod	Analyzod	Dil Eac
Analyte		Qualifier	ion <u>RL</u> 0.00396	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 04/11/23 10:21	Dil Fac
Analyte Total BTEX	Result <0.00396	Qualifier U	RL 0.00396		<u>D</u>	Prepared		Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di	Result <0.00396	Qualifier U Organics (RL 0.00396 DRO) (GC)	mg/Kg			04/11/23 10:21	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	Result <0.00396 esel Range (Result	Qualifier U Organics (Qualifier	RL 0.00396 DRO) (GC) RL	mg/Kg Unit	<u>D</u>	Prepared Prepared	04/11/23 10:21 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di	Result <0.00396	Qualifier U Organics (Qualifier	RL 0.00396 DRO) (GC)	mg/Kg			04/11/23 10:21	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte	Result <0.00396	Qualifier U Organics (Qualifier U	RL 0.00396 DRO) (GC) RL 49.9	mg/Kg Unit			04/11/23 10:21 Analyzed	1
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I	Result <0.00396 esel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U	RL 0.00396 DRO) (GC) RL 49.9	mg/Kg Unit			04/11/23 10:21 Analyzed	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH	Result <0.00396 esel Range (Result <49.9 Diesel Range	Qualifier U Organics (Qualifier U Organics (Qualifier U	RL 0.00396 DRO) (GC) RL 49.9	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/11/23 10:21 Analyzed 04/09/23 22:49	Dil Fac
Analyte Total BTEX Method: SW846 8015 NM - Di Analyte Total TPH Method: SW846 8015B NM - I Analyte Gasoline Range Organics	Result <0.00396 esel Range (Result <49.9 Diesel Range Result	Qualifier U Organics (Qualifier U Organics Qualifier U	RL 0.00396 DRO) (GC) RL 49.9 6 (DRO) (GC) RL	mg/Kg Unit mg/Kg Unit	<u>D</u>	Prepared Prepared	04/11/23 10:21 Analyzed 04/09/23 22:49 Analyzed 04/17/23 17:46	1

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Client Sample Results

Client: Ensolum Job ID: 890-4462-1
Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS09 Lab Sample ID: 890-4462-9

Date Collected: 04/03/23 10:00 Matrix: Solid
Date Received: 04/03/23 16:09

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
1-Chlorooctane				04/17/23 09:25	04/17/23 17:46	1	
o-Terphenyl				04/17/23 09:25	04/17/23 17:46	1	
Method: EPA 300 0 - Anions Id	on Chromat	tography -	Soluble				

Method: EPA 300.0 - Anions, Id	on Chromat	ography - S	Soluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	115		4.98	mg/Kg			04/09/23 17:17	1

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Surrogate Summary

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

Puplicate (70-130) 99 0uplicate 103 111 112 102 100 98 142 S1+ 83	(70-130) 115 111 103 91 78 80 105 76 96	
99 Duplicate 103 111 112 102 100 98 142 S1+ 83	111 103 91 78 80 105 76	
111 112 102 100 98 142 S1+ 83	103 91 78 80 105 76	
112 102 100 98 142 S1+ 83	91 78 80 105 76	
102 100 98 142 S1+ 83	78 80 105 76	
100 98 142 S1+ 83	80 105 76	
98 142 S1+ 83	105 76	
142 S1+ 83	76	
83		
	06	
	90	
88	93	
97	81	
ample 120	110	
ample Dup 122	109	
80	96	
80	76	
aı	mple 120 mple Dup 122 80	mple 120 110 mple Dup 122 109 80 96

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

Matrix: Solid Prep Type: Total/NA

				ent Surrogate Rec
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26670-A-61-B MS	Matrix Spike	118	108	
880-26670-A-61-C MSD	Matrix Spike Duplicate	115	105	
880-26670-A-69-D MS	Matrix Spike	121	109	
880-26670-A-69-E MSD	Matrix Spike Duplicate	121	110	
890-4462-1	SS01	100	185 S1+	
890-4462-2	SS02	95	99	
890-4462-3	SS03	92	100	
890-4462-4	SS04	108	93	
890-4462-5	SS05	122	281 S1+	
890-4462-6	SS06	107	105	
890-4462-7	SS07	95	96	
890-4462-8	SS08	108	106	
890-4513-A-1-B MS	Matrix Spike	84	75	
890-4513-A-1-C MSD	Matrix Spike Duplicate	76	70	
LCS 880-50425/2-A	Lab Control Sample	104	109	
LCS 880-50535/2-A	Lab Control Sample	113	118	
LCS 880-51297/2-A	Lab Control Sample	98	97	
LCSD 880-50425/3-A	Lab Control Sample Dup	89	94	
LCSD 880-50535/3-A	Lab Control Sample Dup	100	104	
LCSD 880-51297/3-A	Lab Control Sample Dup	86	87	
MB 880-50425/1-A	Method Blank	101	113	
MB 880-50535/1-A	Method Blank	132 S1+	144 S1+	
MB 880-51297/1-A	Method Blank	108	120	
Surrogate Legend				

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Surrogate Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com #2

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Job ID: 890-4462-1

SDG: 03D2024175

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

Matrix: Solid Prep Type: Total/NA

Percent Surrogate	Recovery	(Acceptance	Limits)

1CO1 OTPH1

Lab Sample ID Client Sample ID

890-4462-9 SS09

Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-50536/5-B

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 50536

	MB MB							
Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200 U	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Toluene	<0.00200 l	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Ethylbenzene	<0.00200 l	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
m-Xylene & p-Xylene	<0.00400 l	U	0.00400	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
o-Xylene	<0.00200 l	U	0.00200	mg/Kg		04/10/23 09:30	04/10/23 11:54	1
Xylenes, Total	<0.00400 l	U	0.00400	mg/Kg		04/10/23 09:30	04/10/23 11:54	1

MB MB

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	80	70 - 130
1.4-Difluorobenzene (Surr)	96	70 - 130

04/10/23 09:30 04/10/23 11:54 Client Sample ID: Method Blank

04/10/23 09:30 04/10/23 11:54

Analyzed

Prepared

Prep Type: Total/NA

Prep Batch: 50805

Matrix: Solid Analysis Batch: 50769

Lab Sample ID: MB 880-50805/5-A

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Benzene 04/10/23 10:30 04/10/23 22:29 <0.00200 U 0.00200 mg/Kg Toluene mg/Kg 04/10/23 10:30 04/10/23 22:29 <0.00200 U 0.00200 Ethylbenzene mg/Kg 04/10/23 10:30 04/10/23 22:29 <0.00200 U 0.00200 04/10/23 10:30 04/10/23 22:29 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 04/10/23 10:30 04/10/23 22:29 Xylenes, Total <0.00400 U 0.00400 mg/Kg 04/10/23 10:30 04/10/23 22:29

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	04/10/23 10:30	1
1,4-Difluorobenzene (Surr)	76		70 - 130	04/10/23 10:30 04/10/23 22:29	1

Lab Sample ID: LCS 880-50805/1-A

Matrix: Solid

Analysis Batch: 50769

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

Prep Batch: 50805

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1165		mg/Kg	_	117	70 - 130	
Toluene	0.100	0.1127		mg/Kg		113	70 - 130	
Ethylbenzene	0.100	0.1194		mg/Kg		119	70 - 130	
m-Xylene & p-Xylene	0.200	0.2585		mg/Kg		129	70 - 130	
o-Xylene	0.100	0.1315	*+	mg/Kg		131	70 - 130	
			*+	0 0				

LCS LCS

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

Lab Sample ID: LCSD 880-50805/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 50769						Prep E	•		
•	Spike	LCSD LC	SD			%Rec		RPD	
Analyte	Added	Result Qu	ıalifier Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0 100	0.1147	ma/Ka		115	70 - 130	2	35	

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Dil Fac

QC Sample Results

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

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

Lab Sample ID: LCSD 880-50805/2-A

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 50805

LCSD LCSD **RPD** Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Toluene 0.100 0.1081 mg/Kg 108 70 - 130 4 35 Ethylbenzene 0.100 0.1150 mg/Kg 115 70 - 130 4 35 0.200 0.2470 123 70 - 130 5 35 m-Xylene & p-Xylene mg/Kg 0.100 35 o-Xylene 0.1252 mg/Kg 125 70 - 130 5

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	122		70 - 130
1,4-Difluorobenzene (Surr)	109		70 - 130

Lab Sample ID: 890-4436-A-1-I MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 50769

Prep Type: Total/NA

Prep Batch: 50805

Sample Sample Spike MS MS %Rec Result Qualifier Added Result Qualifier D %Rec Limits Analyte Unit Benzene <0.00200 U 0.0992 0.08995 91 70 - 130 mg/Kg Toluene <0.00200 U 0.0992 0.08088 mg/Kg 81 70 - 130 Ethylbenzene <0.00200 U 0.0992 0.07497 mq/Kq 76 70 - 130 <0.00399 U 0.198 73 m-Xylene & p-Xylene 0.1467 mg/Kg 70 - 130o-Xylene <0.00200 U *+ 0.0992 0.07380 mg/Kg 74 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Lab Sample ID: 890-4436-A-1-J MSD

Matrix: Solid

Analysis Batch: 50769

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50805

Spike MSD MSD %Rec **RPD** Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit Benzene <0.00200 U 0.0990 0.09116 mg/Kg 92 70 - 130 35 Toluene <0.00200 U 0.0990 0.08525 mg/Kg 86 70 - 130 5 35 Ethylbenzene <0.00200 U 0.0990 0.07591 mg/Kg 77 70 - 130 35 0.198 76 70 - 130 35 m-Xylene & p-Xylene <0.00399 U 0.1511 mg/Kg 3 70 - 130 o-Xylene <0.00200 U*+ 0.0990 76 35 0.07570 mq/Kq

MSD MSD

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

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

Lab Sample ID: MB 880-50425/1-A

Matrix: Solid

Analysis Batch: 50572

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

Prep Batch: 50425

MB MB Result Qualifier Unit Analyte RL Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/05/23 16:03 04/07/23 08:12

(GRO)-C6-C10

Client: Ensolum Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1

SDG: 03D2024175

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

Lab Sample ID: MB 880-50425/1-A **Matrix: Solid**

Analysis Batch: 50572

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 50425

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 08:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/05/23 16:03	04/07/23 08:12	1

MB MB

	Surrogate	%Recovery	Qualifier	Limits	Prepared Analyzed	Dil Fac
	1-Chlorooctane	101		70 - 130	04/05/23 16:03	1
l	o-Terphenyl	113		70 - 130	04/05/23 16:03 04/07/23 08:12	1

Client Sample ID: Lab Control Sample

Lab Sample ID: LCS 880-50425/2-A **Matrix: Solid** Prep Type: Total/NA Prep Batch: 50425 **Analysis Batch: 50572**

LCS LCS Spike %Rec Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 1132 70 - 130 mg/Kg 113 (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 844.1 84 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	109		70 - 130

Lab Sample ID: LCSD 880-50425/3-A Client Sample ID: Lab Control Sample Dup

LCSD LCSD

Spike

Matrix: Solid

Analysis Batch: 50572

Prep Type: Total/NA Prep Batch: 50425

> %Rec **RPD**

Analyte	A	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics		1000	970.1		mg/Kg		97	70 - 130	15	20
(GRO)-C6-C10										
Diesel Range Organics (Over		1000	765.4		mg/Kg		77	70 - 130	10	20
C10-C28)										

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	89	70 - 130
o-Terphenyl	94	70 - 130

Lab Sample ID: 880-26670-A-61-B MS

Matrix: Solid

Analysis Batch: 50572

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

Prep Batch: 50425

Sample Sample Spike MS MS %Rec **Analyte** Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 998 1027 99 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1176 mg/Kg 116 70 - 130

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	108		70 - 130

QC Sample Results

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

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

Lab Sample ID: 880-26670-A-61-C MSD

Matrix: Solid

Analysis Batch: 50572

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50425

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Analyte <49.9 U Gasoline Range Organics 997 1015 mg/Kg 98 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over 997 1136 112 70 - 130 <49.9 U mg/Kg 3 20

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	115		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: MB 880-50535/1-A **Client Sample ID: Method Blank**

Matrix: Solid

Analysis Batch: 50654

Prep Type: Total/NA Prep Batch: 50535

MB MB Analyte Result Qualifier RL Unit **Prepared** Dil Fac Analyzed Gasoline Range Organics <50.0 U 50.0 mg/Kg 04/06/23 15:38 04/08/23 20:26 (GRO)-C6-C10 04/06/23 15:38 04/08/23 20:26 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/06/23 15:38 04/08/23 20:26

MB MB Surrogate %Recovery Qualifier Limits Prepared 1-Chlorooctane 132 S1+ 70 - 130 04/06/23 15:38 04/08/23 20:26 70 - 130 04/06/23 15:38 04/08/23 20:26 o-Terphenyl 144 S1+

Lab Sample ID: LCS 880-50535/2-A

Matrix: Solid

Analysis Batch: 50654

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

Prep Batch: 50535

Analyzed

Spike LCS LCS %Rec Added Analyte Result Qualifier Limits Unit %Rec Gasoline Range Organics 1000 1127 mg/Kg 113 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 963.9 mg/Kg 96 70 - 130

C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	113	70 - 130
o-Terphenyl	118	70 - 130

Lab Sample ID: LCSD 880-50535/3-A

Matrix: Solid

Analysis Batch: 50654

Client Sample	ID:	Lab	Contro	l Sampl	e Dup
			Duam T	Tak	L-I/NIA

Prep Type: Total/NA Prep Batch: 50535

-	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	1091		mg/Kg		109	70 - 130	3	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	894.8		mg/Kg		89	70 - 130	7	20	
C10-C28)										

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Dil Fac

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2

Limits

70 - 130

70 - 130

SDG: 03D2024175

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

LCSD LCSD %Recovery Qualifier

100

104

Lab Sample ID: LCSD 880-50535/3-A

Matrix: Solid

Surrogate 1-Chlorooctane

o-Terphenyl

Analysis Batch: 50654

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 50535

Lab Sample ID: 880-26670-A-69-D MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 50654

Analysis Batch: 50654

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 50535

%Rec MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 1000 1108 mg/Kg 108 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 1000 1133 mg/Kg 110 70 - 130 C10-C28)

MS MS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 121 70 - 130 70 - 130 o-Terphenyl 109

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 50535 %Rec **RPD**

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec <49.9 U 70 - 130 Gasoline Range Organics 998 1015 mg/Kg 98 9 20 (GRO)-C6-C10 Diesel Range Organics (Over 998 <49.9 U 1127 mg/Kg 110 70 - 130 20 C10-C28)

MSD MSD

Lab Sample ID: 880-26670-A-69-E MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 121 70 - 130 o-Terphenyl 110 70 - 130

Lab Sample ID: MB 880-51297/1-A Client Sample ID: Method Blank **Matrix: Solid**

Analysis Batch: 51269

Prep Type: Total/NA

Prep Batch: 51297

Result Qualifier Unit **Analyte** RL Prepared Analyzed Gasoline Range Organics <50.0 U 50.0 04/17/23 09:25 04/17/23 10:10 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 04/17/23 09:25 04/17/23 10:10 Oll Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 04/17/23 09:25 04/17/23 10:10

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	04/17/23 09:25	04/17/23 10:10	1
o-Terphenyl	120		70 - 130	04/17/23 09:25	04/17/23 10:10	1

Client: Ensolum Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1 SDG: 03D2024175

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

Lab Sample ID: LCS 880-51297/2-A

Matrix: Solid

Analysis Batch: 51269

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 51297

Prep Type: Total/NA

Spike LCS LCS %Rec Added Result Qualifier Limits Analyte Unit D %Rec Gasoline Range Organics 1000 1066 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 1176 mg/Kg 118 70 - 130

C10-C28)

LCS LCS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl 97

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-51297/3-A **Matrix: Solid**

Analysis Batch: 51269

Prep Batch: 51297 LCSD LCSD Spike %Rec **RPD** Added Result Qualifier Limits **RPD** Limit Analyte Unit D %Rec Gasoline Range Organics 1000 1020 102 70 - 130 4 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1023 mg/Kg 102 70 - 130 14 20

C10-C28)

LCSD LCSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 86 70 - 130 o-Terphenyl 87 70 - 130

Client Sample ID: Matrix Spike Lab Sample ID: 890-4513-A-1-B MS **Prep Type: Total/NA**

Matrix: Solid

Prep Batch: 51297 **Analysis Batch: 51269** %Rec Spike MS MS Sample Sample Analyte Result Qualifier Added Unit %Rec Limits Result Qualifier

Ū 1000 998.5 70 - 130 Gasoline Range Organics <50.0 98 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 1000 1165 113 70 - 130 mg/Kg C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130 75 70 - 130 o-Terphenyl

Lab Sample ID: 890-4513-A-1-C MSD

Matrix: Solid

Analysis Batch: 51269

Diesel Range Organics (Over

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

70 - 130

105

Prep Batch: 51297

Sample Sample Spike MSD MSD %Rec **RPD** Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec <50.0 U Gasoline Range Organics 998 1010 mg/Kg 100 70 - 130 20 (GRO)-C6-C10

1077

mg/Kg

998

C10-C28)

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

<50.0 U

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8

Project/Site: Bandit 15 Federal Com #2

Client: Ensolum

Job ID: 890-4462-1

SDG: 03D2024175

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

Lab Sample ID: 890-4513-A-1-C MSD

Matrix: Solid

Analysis Batch: 51269

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 51297

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

MSD MSD

Surrogate %Recovery Qualifier Limits o-Terphenyl 70 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50506/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 50741

MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 04/09/23 15:01 U mg/Kg

Lab Sample ID: LCS 880-50506/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

LCS LCS

Analysis Batch: 50741

Spike %Rec Added Limits Result Qualifier Analyte Unit D %Rec 250 Chloride 240.8 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-50506/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50741

LCSD LCSD **RPD** Spike %Rec Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 237.0 95 90 - 110 20 mg/Kg

Lab Sample ID: 890-4459-A-4-C MS **Client Sample ID: Matrix Spike**

Matrix: Solid

Analysis Batch: 50741

Spike MS MS Sample Sample %Rec **Analyte** Result Qualifier Added Result Qualifier Unit D %Rec Limits Chloride 305 252 538.1 mg/Kg 93 90 - 110

Lab Sample ID: 890-4459-A-4-D MSD

Matrix: Solid

Analysis Batch: 50741

MSD MSD **RPD** Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 305 252 536.0 mg/Kg 92 90 - 110

Client: Ensolum

Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1 SDG: 03D2024175

GC VOA

Prep Batch: 50536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-50536/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 50769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Total/NA	Solid	8021B	50805
890-4462-2	SS02	Total/NA	Solid	8021B	50805
890-4462-3	SS03	Total/NA	Solid	8021B	50805
890-4462-4	SS04	Total/NA	Solid	8021B	50805
890-4462-5	SS05	Total/NA	Solid	8021B	50805
890-4462-6	SS06	Total/NA	Solid	8021B	50805
890-4462-7	SS07	Total/NA	Solid	8021B	50805
890-4462-8	SS08	Total/NA	Solid	8021B	50805
890-4462-9	SS09	Total/NA	Solid	8021B	50805
MB 880-50536/5-B	Method Blank	Total/NA	Solid	8021B	50536
MB 880-50805/5-A	Method Blank	Total/NA	Solid	8021B	50805
LCS 880-50805/1-A	Lab Control Sample	Total/NA	Solid	8021B	50805
LCSD 880-50805/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	50805
890-4436-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	50805
890-4436-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	50805

Prep Batch: 50805

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Total/NA	Solid	5035	
890-4462-2	SS02	Total/NA	Solid	5035	
890-4462-3	SS03	Total/NA	Solid	5035	
890-4462-4	SS04	Total/NA	Solid	5035	
890-4462-5	SS05	Total/NA	Solid	5035	
890-4462-6	SS06	Total/NA	Solid	5035	
890-4462-7	SS07	Total/NA	Solid	5035	
890-4462-8	SS08	Total/NA	Solid	5035	
890-4462-9	SS09	Total/NA	Solid	5035	
MB 880-50805/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-50805/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-50805/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4436-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-4436-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 50894

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Total/NA	Solid	Total BTEX	
890-4462-2	SS02	Total/NA	Solid	Total BTEX	
890-4462-3	SS03	Total/NA	Solid	Total BTEX	
890-4462-4	SS04	Total/NA	Solid	Total BTEX	
890-4462-5	SS05	Total/NA	Solid	Total BTEX	
890-4462-6	SS06	Total/NA	Solid	Total BTEX	
890-4462-7	SS07	Total/NA	Solid	Total BTEX	
890-4462-8	SS08	Total/NA	Solid	Total BTEX	
890-4462-9	SS09	Total/NA	Solid	Total BTEX	

Client: Ensolum

Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

GC Semi VOA

Prep Batch: 50425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Total/NA	Solid	8015NM Prep	
890-4462-2	SS02	Total/NA	Solid	8015NM Prep	
890-4462-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-50425/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50425/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26670-A-61-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26670-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 50535

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-4	SS04	Total/NA	Solid	8015NM Prep	
890-4462-5	SS05	Total/NA	Solid	8015NM Prep	
890-4462-6	SS06	Total/NA	Solid	8015NM Prep	
890-4462-7	SS07	Total/NA	Solid	8015NM Prep	
890-4462-8	SS08	Total/NA	Solid	8015NM Prep	
MB 880-50535/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50535/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26670-A-69-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26670-A-69-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50572

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Total/NA	Solid	8015B NM	50425
890-4462-2	SS02	Total/NA	Solid	8015B NM	50425
890-4462-3	SS03	Total/NA	Solid	8015B NM	50425
MB 880-50425/1-A	Method Blank	Total/NA	Solid	8015B NM	50425
LCS 880-50425/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50425
LCSD 880-50425/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50425
880-26670-A-61-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50425
880-26670-A-61-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50425

Analysis Batch: 50654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-4	SS04	Total/NA	Solid	8015B NM	50535
890-4462-5	SS05	Total/NA	Solid	8015B NM	50535
890-4462-6	SS06	Total/NA	Solid	8015B NM	50535
890-4462-7	SS07	Total/NA	Solid	8015B NM	50535
890-4462-8	SS08	Total/NA	Solid	8015B NM	50535
MB 880-50535/1-A	Method Blank	Total/NA	Solid	8015B NM	50535
LCS 880-50535/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50535
LCSD 880-50535/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50535
880-26670-A-69-D MS	Matrix Spike	Total/NA	Solid	8015B NM	50535
880-26670-A-69-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50535

Analysis Batch: 50766

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Lab Sample ID 890-4462-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch
890-4462-2	SS02	Total/NA	Solid	8015 NM	
890-4462-3	SS03	Total/NA	Solid	8015 NM	

Client: Ensolum

Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

GC Semi VOA (Continued)

Analysis Batch: 50766 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-4	SS04	Total/NA	Solid	8015 NM	
890-4462-5	SS05	Total/NA	Solid	8015 NM	
890-4462-6	SS06	Total/NA	Solid	8015 NM	
890-4462-7	SS07	Total/NA	Solid	8015 NM	
890-4462-8	SS08	Total/NA	Solid	8015 NM	
890-4462-9	SS09	Total/NA	Solid	8015 NM	

Analysis Batch: 51269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-9	SS09	Total/NA	Solid	8015B NM	51297
MB 880-51297/1-A	Method Blank	Total/NA	Solid	8015B NM	51297
LCS 880-51297/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	51297
LCSD 880-51297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	51297
890-4513-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	51297
890-4513-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	51297

Prep Batch: 51297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-51297/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-51297/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-51297/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4513-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4513-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 50506

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Soluble	Solid	DI Leach	
890-4462-2	SS02	Soluble	Solid	DI Leach	
890-4462-3	SS03	Soluble	Solid	DI Leach	
890-4462-4	SS04	Soluble	Solid	DI Leach	
890-4462-5	SS05	Soluble	Solid	DI Leach	
890-4462-6	SS06	Soluble	Solid	DI Leach	
890-4462-7	SS07	Soluble	Solid	DI Leach	
890-4462-8	SS08	Soluble	Solid	DI Leach	
890-4462-9	SS09	Soluble	Solid	DI Leach	
MB 880-50506/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50506/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-50506/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4459-A-4-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4459-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-1	SS01	Soluble	Solid	300.0	50506
890-4462-2	SS02	Soluble	Solid	300.0	50506
890-4462-3	SS03	Soluble	Solid	300.0	50506
890-4462-4	SS04	Soluble	Solid	300.0	50506
890-4462-5	SS05	Soluble	Solid	300.0	50506

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Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

HPLC/IC (Continued)

Analysis Batch: 50741 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4462-6	SS06	Soluble	Solid	300.0	50506
890-4462-7	SS07	Soluble	Solid	300.0	50506
890-4462-8	SS08	Soluble	Solid	300.0	50506
890-4462-9	SS09	Soluble	Solid	300.0	50506
MB 880-50506/1-A	Method Blank	Soluble	Solid	300.0	50506
LCS 880-50506/2-A	Lab Control Sample	Soluble	Solid	300.0	50506
LCSD 880-50506/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50506
890-4459-A-4-C MS	Matrix Spike	Soluble	Solid	300.0	50506
890-4459-A-4-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50506

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Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS01 Lab Sample ID: 890-4462-1 Date Collected: 04/03/23 09:20 **Matrix: Solid**

Date Received: 04/03/23 16:09

	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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 03:38	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	50572	04/07/23 18:06	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	50741	04/09/23 16:32	SMC	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4462-2 Date Collected: 04/03/23 09:25 **Matrix: Solid**

Date Received: 04/03/23 16:09

	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	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 03:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50572	04/07/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	50741	04/09/23 16:37	SMC	EET MID

Client Sample ID: SS03 Lab Sample ID: 890-4462-3 Date Collected: 04/03/23 09:30 Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 04:19	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:35	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50425	04/05/23 16:03	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50572	04/07/23 18:48	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	50506	04/06/23 10:48	KS	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4462-4 Date Collected: 04/03/23 09:35 Matrix: Solid

50 mL

50 mL

50741

04/09/23 16:50 SMC

50

Date Received: 04/03/23 16:09

Analysis

300.0

Soluble

Date Received: 04/03/23 16:09

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 04:40	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID

Eurofins Carlsbad

EET MID

Date Received: 04/03/23 16:09

Job ID: 890-4462-1

Client: Ensolum Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS04 Lab Sample ID: 890-4462-4 Date Collected: 04/03/23 09:35

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50535	04/06/23 15:38	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50654	04/09/23 05:01	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		50	50 mL	50 mL	50741	04/09/23 16:55	SMC	EET MID

Lab Sample ID: 890-4462-5 **Client Sample ID: SS05**

Date Received: 04/03/23 16:09

Date Collected: 04/03/23 09:40 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 05:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50535	04/06/23 15:38	SM	EET MID
Total/NA	Analysis	8015B NM		5	1 uL	1 uL	50654	04/09/23 04:40	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		20	50 mL	50 mL	50741	04/09/23 16:59	SMC	EET MID

Lab Sample ID: 890-4462-6 **Client Sample ID: SS06 Matrix: Solid**

Date Collected: 04/03/23 09:45 Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	50805	04/10/23 10:30	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 05:21	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50535	04/06/23 15:38	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50654	04/08/23 22:36	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 17:04	SMC	EET MID

Client Sample ID: SS07 Lab Sample ID: 890-4462-7 Date Collected: 04/03/23 09:50 **Matrix: Solid**

Date Received: 04/03/23 16:09

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	50535 50654	04/06/23 15:38 04/08/23 22:57	SM SM	EET MID EET MID

Lab Chronicle

Client: Ensolum Job ID: 890-4462-1 Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Client Sample ID: SS07 Lab Sample ID: 890-4462-7

Matrix: Solid

Date Collected: 04/03/23 09:50 Date Received: 04/03/23 16:09

Batch Batch Dil Initial Batch Final Prepared **Prep Type** Method **Factor** Number or Analyzed Analyst Type Run **Amount** Amount Soluble DI Leach 50 mL 50506 04/06/23 10:48 EET MID Leach 5 g Soluble 300.0 04/09/23 17:08 SMC Analysis 50 mL 50 mL 50741 **EET MID** 1

Lab Sample ID: 890-4462-8 **Client Sample ID: SS08**

Date Collected: 04/03/23 09:55 **Matrix: Solid**

Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	50805	04/10/23 10:30	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 06:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50535	04/06/23 15:38	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50654	04/08/23 23:19	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 17:13	SMC	EET MID

Lab Sample ID: 890-4462-9 **Client Sample ID: SS09**

Date Collected: 04/03/23 10:00 **Matrix: Solid**

Date Received: 04/03/23 16:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	50805	04/10/23 10:30	MNR	EET MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	50769	04/11/23 06:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			50894	04/11/23 10:21	SM	EET MID
Total/NA	Analysis	8015 NM		1			50766	04/09/23 22:49	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	51297	04/17/23 09:25	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	51269	04/17/23 17:46	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50506	04/06/23 10:48	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50741	04/09/23 17:17	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4462-1
Project/Site: Bandit 15 Federal Com #2 SDG: 03D2024175

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analyte:	s are included in this rend	ort but the laboratory is r	not certified by the governing authority.	This list may include analytes for w
the agency does not	•	ore, but the laboratory is i	lot certified by the governing authority.	This list may include analytes for w
	•	Matrix	Analyte	This list may include analytes for w
the agency does not o	offer certification.	•	, , ,	This list may include analytes for w

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Method Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1

SDG: 03D2024175

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
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID
DI Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com #2

Job ID: 890-4462-1

SDG: 03D2024175

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4462-1	SS01	Solid	04/03/23 09:20	04/03/23 16:09	0.5'
890-4462-2	SS02	Solid	04/03/23 09:25	04/03/23 16:09	0.5'
890-4462-3	SS03	Solid	04/03/23 09:30	04/03/23 16:09	0.5'
890-4462-4	SS04	Solid	04/03/23 09:35	04/03/23 16:09	0.5'
890-4462-5	SS05	Solid	04/03/23 09:40	04/03/23 16:09	0.5'
890-4462-6	SS06	Solid	04/03/23 09:45	04/03/23 16:09	0.5'
890-4462-7	SS07	Solid	04/03/23 09:50	04/03/23 16:09	0.5'
890-4462-8	SS08	Solid	04/03/23 09:55	04/03/23 16:09	0.5'
890-4462-9	SS09	Solid	04/03/23 10:00	04/03/23 16:09	0.5'

Received by OCD: 5/25/2023 11:29:08 AM

Environment Testing Xenco

Chain of Custody

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

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

Work Orde	r No:	
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www.xenco.com

Project Manager:	H	adle	Green	1		Bill to: (if	different	t)								Work Orde	er Comments	
Company Name:	E	Ensolur	n LL	C		Company	Name:								Program: UST/PST [PRP	Brownfields RRC	Superfund[
Address:		27 Nu			lwy	Address:									State of Project:			
City, State ZIP:				38220)	City, State	e ZIP:		Cb4	rlsha	1,6	M	8822	C	_	_	PST/UST TRRP	Level IV
Phone:		2-55			Email:	ha	reer	00	ensoli	MIC	on				Deliverables: EDD		ADaPT Other:	
Project Name:	Bar	Wit 19	5 Feder	al Con #2	Turn	Around							ANA	LYSIS F	EQUEST		Preservative (Codes
Project Number:		3DZ07			Routine	Rush		Pres. Code									None: NO D	Water: H ₂ C
Project Location:				648373	Due Date:	50	M										Cool: Cool N	leOH: Me
Sampler's Name:		one Ha		<u> </u>	TAT starts the	day receive	ed by	1										INO 3: HN
PO #:			J		the lab, if rec	eived by 4:3	0pm	8					Henne	HOLOG.	Military from August Store	.	2 4 2	IaOH: Na
SAMPLE RECEIPT		Temp B	Blank:	Ves No	Wet Ice:	Res	No	Parameters					1111111111				H ₃ PO ₄ : HP	
Samples Received Inta	ct:	Yes		Thermomete	er ID:	The		aram									NaHSO 4: NABIS	
Cooler Custody Seals:		Yes No	N/A	Correction F	actor:	-0		i a					1111111111111111				Na ₂ S ₂ O ₃ : NaSO ₃	
Sample Custody Seals		Yes No	NA	Temperatur	e Reading:		3		×	I	,	-	890-446	2 Chair	of Custody		Zn Acetate+NaOH:	
Total Containers:				Corrected To	emperature:	3.	0		世	Hd,	5	T		1			NaOH+Ascorbic Acid	u: SAPC
Sample Identi	fication	1	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	25								Sample Com	ments
5501			5	4/3/23	0970	.51	6		X	X	Х							
5502				1	0925			1	1	1								
5503					0930		1									\rightarrow		
5504					0935													
5565					0940													
5506					0945													
5507					0950													
5508					0955													
5509			1	-	1000	1	V	1	V	T	4							
-													- 194	4/3/	3			
Total 200,7 / 601	0	200.8 / 6	5020:	81	RCRA 13PF	M Texa	s 11	Al Sb	As B	a Be	B Cd	Ca C	Co Cu	Fe Pb	Mg Mn Mo Ni K Se A	g SiO ₂ Na	a Sr Tl Sn U V Zn	

Hg: 1631 / 245.1 / 7470 / 7471 TCLP/SPLP6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Circle Method(s) and Metal(s) to be analyzed

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
· Pu Mu	Averaga Slet	4303160	2		
3			4		
5			6		Parised Date: 08/35/2020 Rev. 2020 2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4462-1

SDG Number: 03D2024175

Login Number: 4462 List Source: Eurofins Carlsbad

List Number: 1

Creator: Stutzman, Amanda

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

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4462-1 SDG Number: 03D2024175

Login Number: 4462 **List Source: Eurofins Midland** List Creation: 04/05/23 11:34 AM List Number: 2

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St.

Suite 400 Midland, Texas 79701

Generated 5/2/2023 10:13:38 AM

JOB DESCRIPTION

Bandit 15 Federal Com 002H SDG NUMBER 03D2024175

JOB NUMBER

890-4572-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

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

Authorization

Generated 5/2/2023 10:13:38 AM

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

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

Client: Ensolum
Project/Site: Bandit 15 Federal Com 002H

Laboratory Job ID: 890-4572-1 SDG: 03D2024175

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Definitions/Glossary

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

D2024175

Qualifiers

GC VOA

 Qualifier
 Qualifier Description

 S1 Surrogate recovery exceeds control limits, low biased.

 U
 Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

U Indicates the analyte was analyzed for but not detected.

Glossary

CNF

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit

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)

Contains No Free Liquid

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Ensolum

Project/Site: Bandit 15 Federal Com 002H

Job ID: 890-4572-1

SDG: 03D2024175

Job ID: 890-4572-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4572-1

Receipt

The samples were received on 4/25/2023 12:46 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 1.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4572-1), FS02 (890-4572-2), FS03 (890-4572-3), FS04 (890-4572-4), FS05 (890-4572-5), FS06 (890-4572-6) and FS07 (890-4572-7).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52079 recovered above the upper control limit for Benzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-52034 and analytical batch 880-52079 was outside the upper control limits.

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (CCV 880-52003/5) and (LCS 880-52031/2-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-52031 and analytical batch 880-52003 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS01 (890-4572-1) and (890-4569-A-11-A). 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: FS02 (890-4572-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: FS03 (890-4572-3), FS04 (890-4572-4), FS05 (890-4572-5), FS06 (890-4572-6) and FS07 (890-4572-7). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPI C/IC

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

Lab Sample ID: 890-4572-1

Client Sample Results

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS01

Date Collected: 04/24/23 11:35 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 16:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130			04/26/23 13:12	04/27/23 16:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130			04/26/23 13:12	04/27/23 16:08	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/28/23 10:05	1
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/00/00 47 00	
Mothod: CMO4C CO4ED NA Dis-							04/26/23 17:23	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)				04/26/23 17:23	1
Analyte	•	nics (DRO) Qualifier	(GC)	Unit	D	Prepared	04/26/23 17:23 Analyzed	1 Dil Fac
Analyte Gasoline Range Organics	•	Qualifier	• •	Unit mg/Kg	<u>D</u>	Prepared 04/26/23 11:22		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U	RL		<u>D</u>	<u>.</u>	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	FL 50.0	mg/Kg	<u>D</u>	04/26/23 11:22	Analyzed 04/26/23 16:52 04/26/23 16:52	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U	RL 50.0	mg/Kg	<u> </u>	04/26/23 11:22	Analyzed 04/26/23 16:52	Dil Fac
	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 <i>Prepared</i>	Analyzed 04/26/23 16:52 04/26/23 16:52 04/26/23 16:52 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	RL 50.0 50.0 50.0	mg/Kg	<u>D</u>	04/26/23 11:22 04/26/23 11:22 04/26/23 11:22	Analyzed 04/26/23 16:52 04/26/23 16:52 04/26/23 16:52	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 <i>Prepared</i>	Analyzed 04/26/23 16:52 04/26/23 16:52 04/26/23 16:52 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U Qualifier S1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u> </u>	04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 Prepared 04/26/23 11:22	Analyzed 04/26/23 16:52 04/26/23 16:52 04/26/23 16:52 Analyzed 04/26/23 16:52	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier S1+	RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg	<u>D</u>	04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 Prepared 04/26/23 11:22	Analyzed 04/26/23 16:52 04/26/23 16:52 04/26/23 16:52 Analyzed 04/26/23 16:52	Dil Fac

Client Sample ID: FS02

Date Collected: 04/24/23 11:40 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 17:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/26/23 13:12	04/27/23 17:51	1

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Lab Sample ID: 890-4572-2

Matrix: Solid

2

3

5

0

10

12

Lab Sample ID: 890-4572-2

Client Sample Results

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS02

Date Collected: 04/24/23 11:40 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	93	70 - 130	04/26/23 13:12	04/27/23 17:51	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/28/23 10:05	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/27/23 09:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 17:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 17:13	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 17:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	70 - 130	04/26/23 11:22	04/26/23 17:13	1
o-Terphenyl	131 S1+	70 - 130	04/26/23 11:22	04/26/23 17:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D)	Prepared	Analyzed	Dil Fac
Chloride	174		4.98	mg/	Kg			05/01/23 20:28	1

Client Sample ID: FS03 Lab Sample ID: 890-4572-3

Date Collected: 04/24/23 11:45 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

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

Mictiloa. Offoro COZ ID - Volat	ne organie comp	ounus (CC)	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/26/23 13:12	04/27/23 18:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			04/26/23 13:12	04/27/23 18:17	1
1 A-Diffuorobenzene (Surr)	07		70 130			04/26/23 13:12	04/27/23 18:17	1

1,4-Difluorobenzene (Surr)	97	70 - 130	04/26/23 13:12	04/27/23 18:17

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			04/28/23 10:05	1

Method: SW846 8015 NM - Diesel Range (Organics	(DRO) (GC)
method. Offoro out of the Pieser Range v	Organics .		

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			04/27/23 09:46	1

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Matrix: Solid

Lab Sample ID: 890-4572-3

Job ID: 890-4572-1

Client: Ensolum Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS03

Date Collected: 04/24/23 11:45 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		04/26/23 11:22	04/26/23 17:56	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		04/26/23 11:22	04/26/23 17:56	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/26/23 11:22	04/26/23 17:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			04/26/23 11:22	04/26/23 17:56	1
o-Terphenyl	131	S1+	70 - 130			04/26/23 11:22	04/26/23 17:56	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
				1114	_		A II	Dil Faa
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS04 Lab Sample ID: 890-4572-4 Date Collected: 04/24/23 09:40 Matrix: Solid

Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/26/23 13:12	04/27/23 18:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			04/26/23 13:12	04/27/23 18:42	1
1,4-Difluorobenzene (Surr)	93		70 - 130			04/26/23 13:12	04/27/23 18:42	1
Total BTEX Method: SW846 8015 NM - Diese		ics (DRO) (0		mg/Kg		Prepared	04/28/23 10:05	
- -	I Range Organ	ics (DRO) (C		mg/Kg Unit mg/Kg	<u>D</u>	Prepared	04/28/23 10:05 Analyzed 04/27/23 09:46	Dil Fac
Method: SW846 8015 NM - Diese Analyte	I Range Organ Result <	ics (DRO) (0 Qualifier	RL 50.0	Unit	D	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Dies	I Range Organ Result <	ics (DRO) ((Qualifier U)	RL 50.0	Unit mg/Kg			Analyzed 04/27/23 09:46	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	I Range Organ Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U nics (DRO) Qualifier U	RL 50.0	Unit mg/Kg		Prepared	Analyzed 04/27/23 09:46 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	I Range Organ Result <50.0 sel Range Orga Result <50.0	cics (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Uni	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 18:18	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/26/23 11:22 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 18:18 04/26/23 18:18	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	I Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 04/26/23 11:22 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 18:18 04/26/23 18:18	Dil Fac Dil Fac 1

Lab Sample ID: 890-4572-4

Job ID: 890-4572-1

Client: Ensolum Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS04

Date Collected: 04/24/23 09:40 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	455		5.00	mg/Kg			05/01/23 20:39	1		

Client Sample ID: FS05 Lab Sample ID: 890-4572-5 Matrix: Solid

Date Collected: 04/24/23 09:45 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 19:08	
Toluene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 19:08	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 19:08	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/26/23 13:12	04/27/23 19:08	,
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/26/23 13:12	04/27/23 19:08	•
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/26/23 13:12	04/27/23 19:08	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			04/26/23 13:12	04/27/23 19:08	
1,4-Difluorobenzene (Surr)	89		70 - 130			04/26/23 13:12	04/27/23 19:08	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/28/23 10:05	
Method: SW846 8015 NM - Diese Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			04/27/23 09:46	,
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 18:40	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 18:40	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/26/23 11:22	04/26/23 18:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	110		70 - 130			04/26/23 11:22	04/26/23 18:40	1
o-Terphenyl	131	S1+	70 - 130			04/26/23 11:22	04/26/23 18:40	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	214		5.05	mg/Kg			05/01/23 20:44	1

Lab Sample ID: 890-4572-6

Client Sample Results

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS06

Date Collected: 04/24/23 09:50 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
Toluene	< 0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 19:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/26/23 13:12	04/27/23 19:34	1
1,4-Difluorobenzene (Surr)	90		70 - 130			04/26/23 13:12	04/27/23 19:34	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			04/28/23 10:05	1
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (0	GC)					
Method: SW846 8015 NM - Diese Analyte	el Range Organ Result	ics (DRO) (C	GC)	Unit	<u>D</u>	Prepared	Analyzed	
: Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (C	GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0	ics (DRO) (0 Qualifier	RL 50.0	Unit	<u>D</u>	Prepared	Analyzed	
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (0 Qualifier	RL 50.0	Unit	D	Prepared Prepared	Analyzed	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <50.0 sel Range Organ	ics (DRO) (Qualifier U nics (DRO) Qualifier	RL 50.0	Unit mg/Kg	_ =		Analyzed 04/27/23 09:46	1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <50.0 sel Range Organ Result	Qualifier U nics (DRO) Qualifier U u nics (DRO) Qualifier U	RL 50.0 (GC)	Unit mg/Kg	_ =	Prepared	Analyzed 04/27/23 09:46 Analyzed	1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result Result <50.0 sel Range Orga Result <50.0	cos (DRO) (On Qualifier Unics (DRO) Qualifier Unics (DRO) Qualifier Unics Unic	GC) RL 50.0 (GC) RL 50.0	Unit mg/Kg Unit mg/Kg	_ =	Prepared 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 04/26/23 11:22 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01 04/26/23 19:01	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 04/26/23 11:22 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01 04/26/23 19:01	1 Dil Fac 1 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <50.0 sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 112	cos (DRO) (Control of the control of	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 Prepared	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01 04/26/23 19:01 Analyzed	Dil Fac 1 1 Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ	Company of the compan	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 Prepared 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01 04/26/23 19:01 Analyzed 04/26/23 19:01	1 Dil Fac 1 Dil Fac 1
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ	Company of the compan	GC) RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 04/26/23 11:22 04/26/23 11:22 04/26/23 11:22 Prepared 04/26/23 11:22	Analyzed 04/27/23 09:46 Analyzed 04/26/23 19:01 04/26/23 19:01 Analyzed 04/26/23 19:01	Dil Fac 1 1 1 Dil Fac 1

Client Sample ID: FS07

Date Collected: 04/24/23 09:55 Date Received: 04/25/23 12:46

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/26/23 13:12	04/27/23 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			04/26/23 13:12	04/27/23 20:00	1

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Lab Sample ID: 890-4572-7

Matrix: Solid

2

5

8

10

12

Client Sample Results

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS07

Date Collected: 04/24/23 09:55

217

Lab Sample ID: 890-4572-7

05/01/23 21:06

Matrix: Solid

Date Received: 04/25/23 12:46 Sample Depth: 1.0'

Chloride

<u>D</u>	Prepared Prepared Prepared	Analyzed 04/28/23 10:05 Analyzed 04/28/23 09:46	Dil Fac Dil Fac
<u>D</u>	Prepared	04/28/23 10:05 Analyzed	1
<u>D</u>	Prepared	04/28/23 10:05 Analyzed	1
		Analyzed	Dil Fac
			Dil Fac
			Dil Fac
<u>D</u>	Propared	04/27/23 09:46	1
<u>D</u>	Propaged		
		Analyzed	Dil Fac
D	Dropared		
	04/26/23 11:22	04/26/23 19:23	1
	04/26/23 11:22	04/26/23 19:23	1
	04/20/23 11.22	04/20/20 19.20	
	04/26/23 11:22	04/26/23 19:23	1
	Prepared	Analyzed	Dil Fac
	04/26/23 11:22	04/26/23 19:23	1
	04/26/23 11:22	04/26/23 19:23	1
		04/26/23 11:22 Prepared 04/26/23 11:22	04/26/23 11:22 04/26/23 19:23 Prepared Analyzed 04/26/23 11:22 04/26/23 19:23

4.98

mg/Kg

Surrogate Summary

Job ID: 890-4572-1 Client: Ensolum Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4564-A-1-C MS	Matrix Spike	94	86	
890-4564-A-1-D MSD	Matrix Spike Duplicate	117	94	
890-4572-1	FS01	125	98	
890-4572-2	FS02	110	93	
890-4572-3	FS03	126	97	
890-4572-4	FS04	121	93	
890-4572-5	FS05	111	89	
890-4572-6	FS06	118	90	
890-4572-7	FS07	116	97	
LCS 880-52034/1-A	Lab Control Sample	105	101	
LCSD 880-52034/2-A	Lab Control Sample Dup	110	80	
MB 880-52034/5-A	Method Blank	59 S1-	86	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4569-A-11-B MS	Matrix Spike	127	130	
890-4569-A-11-E MSD	Matrix Spike Duplicate	128	130	
890-4572-1	FS01	113	135 S1+	
890-4572-2	FS02	110	131 S1+	
890-4572-3	FS03	110	131 S1+	
890-4572-4	FS04	112	134 S1+	
890-4572-5	FS05	110	131 S1+	
890-4572-6	FS06	112	133 S1+	
890-4572-7	FS07	109	131 S1+	
LCS 880-52031/2-A	Lab Control Sample	114	135 S1+	
LCSD 880-52031/3-A	Lab Control Sample Dup	110	129	
MB 880-52031/1-A	Method Blank	124	147 S1+	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52034/5-A

Matrix: Solid Analysis Batch: 52079 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52034

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 11:49	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 11:49	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 11:49	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/26/23 13:12	04/27/23 11:49	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/26/23 13:12	04/27/23 11:49	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/26/23 13:12	04/27/23 11:49	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	59	S1-	70 - 130	04/26/23 13:12	04/27/23 11:49	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/26/23 13:12	04/27/23 11:49	1

Lab Sample ID: LCS 880-52034/1-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 52079

Prep Type: Total/NA

Prep Batch: 52034

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1181 mg/Kg 118 70 - 130 Toluene 0.100 0.1194 mg/Kg 119 70 - 130 0.100 106 Ethylbenzene 0.1061 mg/Kg 70 - 130 0.200 108 70 - 130 m-Xylene & p-Xylene 0.2168 mg/Kg 0.100 103 70 - 130 o-Xylene 0.1025 mg/Kg

LCS LCS

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

Lab Sample ID: LCSD 880-52034/2-A

Matrix: Solid

Analysis Batch: 52079

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 52034

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1131		mg/Kg		113	70 - 130	4	35	
Toluene	0.100	0.1153		mg/Kg		115	70 - 130	3	35	
Ethylbenzene	0.100	0.1026		mg/Kg		103	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2101		mg/Kg		105	70 - 130	3	35	
o-Xylene	0.100	0.1017		mg/Kg		102	70 - 130	1	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1.4-Difluorobenzene (Surr)	80		70 ₋ 130

Lab Sample ID: 890-4564-A-1-C MS

Matrix: Solid

Analysis Batch: 52079

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52034

	Sample	Sample	Spike	MS	MS			%Rec		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.1127		mg/Kg		113	70 - 130	
Toluene	< 0.00199	U	0.0998	0.1112		mg/Kg		111	70 - 130	

Prep Type: Total/NA

Prep Batch: 52034

QC Sample Results

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

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

Lab Sample ID: 890-4564-A-1-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 52079

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U	0.0998	0.09190		mg/Kg		92	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1859		mg/Kg		93	70 - 130	
o-Xylene	<0.00199	U	0.0998	0.09113		mg/Kg		91	70 - 130	

MS MS Surrogate %Recovery Qualifier

Limits 4-Bromofluorobenzene (Surr) 70 - 130 94 1,4-Difluorobenzene (Surr) 86 70 - 130

Client Sample ID: Matrix Spike Duplicate Lab Sample ID: 890-4564-A-1-D MSD Prep Type: Total/NA

Matrix: Solid Analysis Batch: 52079

								Prep	Batch:	52034
Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
<0.00199	U	0.0990	0.1092		mg/Kg		110	70 - 130	3	35
<0.00199	U	0.0990	0.1105		mg/Kg		112	70 - 130	1	35
<0.00199	U	0.0990	0.09275		mg/Kg		94	70 - 130	1	35
<0.00398	U	0.198	0.1889		mg/Kg		95	70 - 130	2	35
<0.00199	U	0.0990	0.09325		mg/Kg		94	70 - 130	2	35
	Result <0.00199 <0.00199 <0.00199 <0.00398	Sample Sample Result Qualifier <0.00199	Result Qualifier Added <0.00199	Result Qualifier Added Result <0.00199	Result Qualifier Added Result Qualifier <0.00199	Result Qualifier Added Result Qualifier Unit <0.00199	Result Qualifier Added Result Qualifier Unit D <0.00199	Result Qualifier Added Result Qualifier Unit D %Rec <0.00199	Sample Result Sample Qualifier Spike Added Result Qualifier MSD VIII MSD VIIII MSD VIII MSD VIII	Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD <0.00199

MSD MSD

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-52031/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 52031

Analysis Batch: 52003

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/26/23 08:00	04/26/23 08:12	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		04/26/23 08:00	04/26/23 08:12	1
C10-C28) Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/26/23 08:00	04/26/23 08:12	1

MB MB

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Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	04/26/23 08:	00 04/26/23 08:12	1
o-Terphenyl	147	S1+	70 - 130	04/26/23 08:	00 04/26/23 08:12	1

Lab Sample ID: LCS 880-52031/2-A

Matrix: Solid

Matrix: Solid							Prep Ty	pe: Total/NA
Analysis Batch: 52003							Prep E	Batch: 52031
	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1142		mg/Kg		114	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	915.6		mg/Kg		92	70 - 130	
C10-C28)								

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Client Sample ID: Lab Control Sample

Prep Batch: 52031

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 52031

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

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

Lab Sample ID: LCS 880-52031/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 52003

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	135	S1+	70 - 130

Lab Sample ID: LCSD 880-52031/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 52003							Prep	Batch:	52031
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1146		mg/Kg		115	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	891.5		mg/Kg		89	70 - 130	3	20

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 110 70 - 130 70 - 130 o-Terphenyl 129

Lab Sample ID: 890-4569-A-11-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 52003

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1005		mg/Kg		101	70 - 130	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	998	1055		mg/Kg		101	70 - 130	
C10-C28)	140.0	J	330	1033		mg/Ng		101	70 - 100	

	MS	MS				
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	127		70 - 130			
o-Terphenvl	130		70 - 130			

Lab Sample ID: 890-4569-A-11-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 52003									Prep	Batch:	52031
	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	<49.9	U	997	1031		mg/Kg		103	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1060		mg/Kg		102	70 - 130	0	20

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

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5/2/2023

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H

SDG: 03D2024175

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52095/1-A

Matrix: Solid

Analysis Batch: 52349

Prep Type: Soluble

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 05/01/23 19:19

Lab Sample ID: LCS 880-52095/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52349

Spike LCS LCS

мв мв

%Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 237.3 mg/Kg 95 90 - 110

Lab Sample ID: LCSD 880-52095/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52349

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 237.8 mg/Kg 90 - 110

Lab Sample ID: 890-4572-6 MS **Client Sample ID: FS06 Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52349

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 81.8 252 321.9 95 90 - 110 mg/Kg

Lab Sample ID: 890-4572-6 MSD

Matrix: Solid

Analysis Batch: 52349

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 252 81.8 322.2 mg/Kg 95 90 - 110 0 20

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Client Sample ID: FS06

Prep Type: Soluble

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

GC VOA

Prep Batch: 52034

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	5035	
890-4572-2	FS02	Total/NA	Solid	5035	
890-4572-3	FS03	Total/NA	Solid	5035	
890-4572-4	FS04	Total/NA	Solid	5035	
890-4572-5	FS05	Total/NA	Solid	5035	
890-4572-6	FS06	Total/NA	Solid	5035	
890-4572-7	FS07	Total/NA	Solid	5035	
MB 880-52034/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52034/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52034/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4564-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-4564-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52079

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	8021B	52034
890-4572-2	FS02	Total/NA	Solid	8021B	52034
890-4572-3	FS03	Total/NA	Solid	8021B	52034
890-4572-4	FS04	Total/NA	Solid	8021B	52034
890-4572-5	FS05	Total/NA	Solid	8021B	52034
890-4572-6	FS06	Total/NA	Solid	8021B	52034
890-4572-7	FS07	Total/NA	Solid	8021B	52034
MB 880-52034/5-A	Method Blank	Total/NA	Solid	8021B	52034
LCS 880-52034/1-A	Lab Control Sample	Total/NA	Solid	8021B	52034
LCSD 880-52034/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52034
890-4564-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	52034
890-4564-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52034

Analysis Batch: 52192

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	Total BTEX	
890-4572-2	FS02	Total/NA	Solid	Total BTEX	
890-4572-3	FS03	Total/NA	Solid	Total BTEX	
890-4572-4	FS04	Total/NA	Solid	Total BTEX	
890-4572-5	FS05	Total/NA	Solid	Total BTEX	
890-4572-6	FS06	Total/NA	Solid	Total BTEX	
890-4572-7	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	8015B NM	52031
890-4572-2	FS02	Total/NA	Solid	8015B NM	52031
890-4572-3	FS03	Total/NA	Solid	8015B NM	52031
890-4572-4	FS04	Total/NA	Solid	8015B NM	52031
890-4572-5	FS05	Total/NA	Solid	8015B NM	52031
890-4572-6	FS06	Total/NA	Solid	8015B NM	52031
890-4572-7	FS07	Total/NA	Solid	8015B NM	52031
MB 880-52031/1-A	Method Blank	Total/NA	Solid	8015B NM	52031
LCS 880-52031/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52031

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Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

GC Semi VOA (Continued)

Analysis Batch: 52003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-52031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52031
890-4569-A-11-B MS	Matrix Spike	Total/NA	Solid	8015B NM	52031
890-4569-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52031

Prep Batch: 52031

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	8015NM Prep	
890-4572-2	FS02	Total/NA	Solid	8015NM Prep	
890-4572-3	FS03	Total/NA	Solid	8015NM Prep	
890-4572-4	FS04	Total/NA	Solid	8015NM Prep	
890-4572-5	FS05	Total/NA	Solid	8015NM Prep	
890-4572-6	FS06	Total/NA	Solid	8015NM Prep	
890-4572-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-52031/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52031/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52031/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4569-A-11-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4569-A-11-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Total/NA	Solid	8015 NM	
890-4572-2	FS02	Total/NA	Solid	8015 NM	
890-4572-3	FS03	Total/NA	Solid	8015 NM	
890-4572-4	FS04	Total/NA	Solid	8015 NM	
890-4572-5	FS05	Total/NA	Solid	8015 NM	
890-4572-6	FS06	Total/NA	Solid	8015 NM	
890-4572-7	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52095

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Soluble	Solid	DI Leach	
890-4572-2	FS02	Soluble	Solid	DI Leach	
890-4572-3	FS03	Soluble	Solid	DI Leach	
890-4572-4	FS04	Soluble	Solid	DI Leach	
890-4572-5	FS05	Soluble	Solid	DI Leach	
890-4572-6	FS06	Soluble	Solid	DI Leach	
890-4572-7	FS07	Soluble	Solid	DI Leach	
MB 880-52095/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52095/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52095/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4572-6 MS	FS06	Soluble	Solid	DI Leach	
890-4572-6 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 52349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-1	FS01	Soluble	Solid	300.0	52095
890-4572-2	FS02	Soluble	Solid	300.0	52095
890-4572-3	FS03	Soluble	Solid	300.0	52095

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Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

HPLC/IC (Continued)

Analysis Batch: 52349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4572-4	FS04	Soluble	Solid	300.0	52095
890-4572-5	FS05	Soluble	Solid	300.0	52095
890-4572-6	FS06	Soluble	Solid	300.0	52095
890-4572-7	FS07	Soluble	Solid	300.0	52095
MB 880-52095/1-A	Method Blank	Soluble	Solid	300.0	52095
LCS 880-52095/2-A	Lab Control Sample	Soluble	Solid	300.0	52095
LCSD 880-52095/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52095
890-4572-6 MS	FS06	Soluble	Solid	300.0	52095
890-4572-6 MSD	FS06	Soluble	Solid	300.0	52095

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Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS01 Lab Sample ID: 890-4572-1

Date Collected: 04/24/23 11:35 Matrix: Solid Date Received: 04/25/23 12:46

	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	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 16:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/26/23 17:23	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 16:52	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:23	SMC	EET MID

Client Sample ID: FS02 Lab Sample ID: 890-4572-2

Date Collected: 04/24/23 11:40 Matrix: Solid Date Received: 04/25/23 12:46

Batch E	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 17:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 17:13	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	52095	04/27/23 10:13	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:28	SMC	EET MIC

Client Sample ID: FS03 Lab Sample ID: 890-4572-3

Date Collected: 04/24/23 11:45 **Matrix: Solid** Date Received: 04/25/23 12:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 18:17	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 17:56	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:34	SMC	EET MID

Client Sample ID: FS04 Lab Sample ID: 890-4572-4

Date Collected: 04/24/23 09:40 **Matrix: Solid** Date Received: 04/25/23 12:46

	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	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 18:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID

Lab

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS04

Date Collected: 04/24/23 09:40 Date Received: 04/25/23 12:46 Lab Sample ID: 890-4572-4

Matrix: Solid

Matrix: Solid

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 18:18	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:39	SMC	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-4572-5

Date Collected: 04/24/23 09:45 Date Received: 04/25/23 12:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 19:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 18:40	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:44	SMC	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-4572-6

Date Collected: 04/24/23 09:50 Date Received: 04/25/23 12:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 19:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52031	04/26/23 11:22	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52003	04/26/23 19:01	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 20:50	SMC	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-4572-7

Date Collected: 04/24/23 09:55 Date Received: 04/25/23 12:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	52034	04/26/23 13:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52079	04/27/23 20:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52192	04/28/23 10:05	SM	EET MID
Total/NA	Analysis	8015 NM		1			52061	04/27/23 09:46	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g 1 uL	10 mL 1 uL	52031 52003	04/26/23 11:22 04/26/23 19:23	AJ SM	EET MID EET MID

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Lab Chronicle

Client: Ensolum Job ID: 890-4572-1
Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Client Sample ID: FS07 Lab Sample ID: 890-4572-7

Date Collected: 04/24/23 09:55

Date Received: 04/25/23 12:46

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	52095	04/27/23 10:13	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52349	05/01/23 21:06	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4572-1 Project/Site: Bandit 15 Federal Com 002H SDG: 03D2024175

Laboratory: Eurofins Midland

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

Authority Texas		ogram	Identification Number	Expiration Date 06-30-23	
		ELAP	T104704400-22-25		
The following analytes the agency does not of	• •	it the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes fo	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

Method Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com 002H

Job ID: 890-4572-1

SDG: 03D2024175	

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com 002H

Job ID: 890-4572-1

SDG: 03D2024175

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4572-1	FS01	Solid	04/24/23 11:35	04/25/23 12:46	1.0'
890-4572-2	FS02	Solid	04/24/23 11:40	04/25/23 12:46	1.0'
890-4572-3	FS03	Solid	04/24/23 11:45	04/25/23 12:46	1.0'
890-4572-4	FS04	Solid	04/24/23 09:40	04/25/23 12:46	1.0'
890-4572-5	FS05	Solid	04/24/23 09:45	04/25/23 12:46	1.0'
890-4572-6	FS06	Solid	04/24/23 09:50	04/25/23 12:46	1.0'
890-4572-7	FS07	Solid	04/24/23 09:55	04/25/23 12:46	1.0'



Environment Testing Xenco

Chain of Custody

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

Work Order No:		

www.xenco.com

Project Manager:	er: Hadlie Green Bill			Bill to: (if different) Kalei Jennings					Work Order Comments																	
Company Name:	Ensol	lum, LLC				Compan	y Name	:	Ensol	um, LL	.C						Program: UST/PST PRP Brownfields RRC Superfund						ınd 🗌			
Address:	601 N	Marienfe	ld St S	uite 400		Address	:		601 N Marienfeld St Suite 400						State of Project:											
City, State ZIP:	Midla	nd, TX 79	701			City, Sta		Midland, TX 79701					_	Reporting: Level II Level III PST/UST TRRP Level IV						IVU						
Phone:	432-5	57-8895			Email:	il: hareen@ensolum.com, kjenninas@ensolum.com							Deliverables: EDD ADaPT Other:													
Project Name:	Ва	ındit 15 Fe	ederal C	om 002H	Turn	Turn Around			ANALYSIS RE					REQ	EQUEST					Preservative Codes			S			
Project Number:		03D	202417	5	☑ Routine	Rush	1	Pres. Code															None: NO		DI Water	H ₂ O
Project Location:		32.5710	,-103.6	4899	Due Date:																		Cool: Coo	1	MeOH: M	
		Peter Van Patten			rts the day received by														HCL: HC HNO₃: HN							
					the lab, if rec	eived by 4	eived by 4:30pm											H ₂ S0 ₄ : H ₂		NaOH: N	a					
SAMPLE RECEI	PT	Temp B	lank:	Yes No	Wet Ice:	Yes	No No	net	(0.			111	MI MI			WW							H₃PO₄: HI			
Samples Received In	ntact:		No	Thermometer	ID:	The	007	ara.	300.0)				WW	MW		MW)	mm	WW.					NaHSO₄:			
Cooler Custody Seal	s:	Yes No	(N/A)	Correction Fa	ctor:	-0.	1	à.	PA					MMM	W.W	Man	11 18818 /	11/11/1					Na ₂ S ₂ O ₃ :			
Sample Custody Sea	is:	Yes No	(N/A	Temperature			0		S (E	_	=	1	00-45	72 Ch	ain of	Custo	dy						Zn Acetate			.
Total Containers:		Corrected Temp			nperature: (. 4		4		ORIDE (8015)	015)	(8021)		890-4572 Chain of Cus								NaOH+Ascorbic Acid: SAPC			C		
Sample Iden	tificat	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES (EPA:	тРН (8	втех (San	ple C	Comments	3
FS0	1		Soil	4/24/2023	1135	1.0'	Comp	1	х	×	×									_			1			
FS0	2		Soil	4/24/2023	1140	1.0'	Comp	1	х	х	x							_	_	-	-	-				
FS0	3		Soil	4/24/2023	1145	1.0'	Comp	1	х	х	X								-	-		-				
FS0	4		Soil	4/25/2023	940	1.0'	Comp	1	х	х	X							_	-	-	-	-				
FS0	5		Soil	4/25/2023	945	1.0'	Comp	1	х	х	х								_			1				
FS0	6		Soil	4/25/2023	950	1.0'	Comp	1	х	х	×	\sqcup						_		-	_					
FS0	7		Soil	4/25/2023	955	1.0'	Comp	1_	X	. х	_X_							_	<u> </u>	-		_				
					7	21																				
				Ref	Va	-	/													-	-	 				
				Set																			<u> </u>			

Total	200.7	6010	200.8 / 6020:	

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U Hg: 1631 / 245.1 / 7470 / 7471

Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions

of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
It Valeta	Jaren a Stuf	4/25/23/2	46		
			4		
			6		

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4572-1 SDG Number: 03D2024175

Login Number: 4572 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

MS/MSDs

<6mm (1/4").

 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
 True

tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. N/A Refer to Job Narrative for details. Sample bottles are completely filled. True N/A Sample Preservation Verified.

True

N/A

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4572-1

SDG Number: 03D2024175

Login Number: 4572 **List Source: Eurofins Midland** List Number: 2

List Creation: 04/26/23 11:11 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400

Midland, Texas 79701 Generated 5/11/2023 8:33:02 AM

JOB DESCRIPTION

Bandit 15 Federal Com 002 SDG NUMBER 03D2024175

JOB NUMBER

890-4624-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

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

Client: Ensolum Project/Site: Bandit 15 Federal Com 002 Laboratory Job ID: 890-4624-1 SDG: 03D2024175

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Definitions/Glossary

Job ID: 890-4624-1 Client: Ensolum Project/Site: Bandit 15 Federal Com 002

SDG: 03D2024175

Qualifiers

GC VOA

Qualifier **Qualifier Description** LCS and/or LCSD is outside acceptance limits, high biased. U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

Compound was found in the blank and sample.

Glossary

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

CFL Contains Free Liquid CFU Colony Forming Unit CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Bandit 15 Federal Com 002

Job ID: 890-4624-1

SDG: 03D2024175

Job ID: 890-4624-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4624-1

Receipt

The sample was received on 5/4/2023 1:26 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.6°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS03A (890-4624-1).

GC VOA

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52692 recovered above the upper control limit for Ethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: (CCV 880-52692/2), (CCV 880-52692/20) and (CCV 880-52692/33).

Method 8021B: The laboratory control sample duplicate (LCSD) for preparation batch 880-52673 and analytical batch 880-52692 recovered outside control limits for the following analytes: Benzene. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

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

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-53015 and analytical batch 880-52997 was outside the upper control limits.

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: FS03A (890-4624-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

Method 300_ORGFM_28D: The method blank associated with preparation batch 880-52848 and 880-52848 and analytical batch 880-53032 contained Chloride greater than one-half the reporting limit (RL). The samples were not re-analyzed because all samples were greater than 10 times the detection of the Method Blank (MB). The sample results have been qualified and reported.FS03A (890-4624-1), (MB 880-52848/1-A) and (880-27940-A-81-D)

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52848 and analytical batch 880-53032 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-4624-1

Client Sample Results

Client: EnsolumJob ID: 890-4624-1Project/Site: Bandit 15 Federal Com 002SDG: 03D2024175

Client Sample ID: FS03A

Date Collected: 05/04/23 10:55 Date Received: 05/04/23 13:26

Sample Depth: 1.25'

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U *+	0.00200	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		05/05/23 12:00	05/05/23 23:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			05/05/23 12:00	05/05/23 23:03	1
1,4-Difluorobenzene (Surr)	94		70 - 130			05/05/23 12:00	05/05/23 23:03	1
Method: TAL SOP Total BTEX - To	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			05/08/23 16:06	1
Method: SW846 8015 NM - Diesel Analyte Total TPH	•	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/10/23 19:11	Dil Fac
Total TPH - -	<49.8	U	49.8	mg/Kg			05/10/23 19:11	1
Method: SW846 8015B NM - Diese	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		05/10/23 10:09	05/10/23 17:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		05/10/23 10:09	05/10/23 17:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		05/10/23 10:09	05/10/23 17:43	1
Total TPH	<49.8	U	49.8	mg/Kg		05/10/23 10:09	05/10/23 17:43	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate	70/Necovery							
Surrogate 1-Chlorooctane	135	S1+	70 - 130			05/10/23 10:09	05/10/23 17:43	1
	<u>-</u>	S1+	70 ₋ 130 70 ₋ 130			05/10/23 10:09 05/10/23 10:09	05/10/23 17:43 05/10/23 17:43	1 1
1-Chlorooctane	135 105		70 - 130					

5.04

mg/Kg

278 B

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05/09/23 17:56

Chloride

Surrogate Summary

Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
BFB1	DFBZ1	
(70-130)	(70-130)	
115	104	
120	93	
116	94	
110	102	
116	94	
102	105	
	(70-130) 115 120 116 110 116	(70-130) (70-130) 115 104 120 93 116 94 110 102 116 94

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4624-1	FS03A	135 S1+	105	
890-4629-A-1-E MS	Matrix Spike	107	77	
890-4629-A-1-F MSD	Matrix Spike Duplicate	101	74	
LCS 880-53015/2-A	Lab Control Sample	106	82	
LCSD 880-53015/3-A	Lab Control Sample Dup	119	91	
MB 880-53015/1-A	Method Blank	137 S1+	110	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52673/5-A

Matrix: Solid Analysis Batch: 52692 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52673

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/05/23 09:47	05/05/23 14:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/05/23 09:47	05/05/23 14:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/05/23 09:47	05/05/23 14:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/05/23 09:47	05/05/23 14:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/05/23 09:47	05/05/23 14:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/05/23 09:47	05/05/23 14:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	05/05/23 09:4	7 05/05/23 14:17	1
1,4-Difluorobenzene (Surr)	105		70 - 130	05/05/23 09:4	7 05/05/23 14:17	1

Lab Sample ID: LCS 880-52673/1-A

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 52673

ı		Spike	LCS	LCS				%Rec	
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Benzene	0.100	0.1186	-	mg/Kg		119	70 - 130	
	Toluene	0.100	0.1120		mg/Kg		112	70 - 130	
	Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	
	m-Xylene & p-Xylene	0.200	0.2075		mg/Kg		104	70 - 130	
	o-Xylene	0.100	0.09646		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery G	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: LCSD 880-52673/2-A

Matrix: Solid

Analysis Batch: 52692

Prep Type: Total/NA

Prep Batch: 52673

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1318	*+	mg/Kg		132	70 - 130	11	35	
Toluene	0.100	0.1133		mg/Kg		113	70 - 130	1	35	
Ethylbenzene	0.100	0.1114		mg/Kg		111	70 - 130	6	35	
m-Xylene & p-Xylene	0.200	0.2239		mg/Kg		112	70 - 130	8	35	
o-Xylene	0.100	0.1054		mg/Kg		105	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1.4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-28006-A-1-A MS

Matrix: Solid

Analysis Batch: 52692

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 52673

MS MS Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00202 U*+ 0.0998 102 70 - 130 Benzene 0.1014 mg/Kg Toluene <0.00202 U 0.0998 0.09321 mg/Kg 93 70 - 130

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Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

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

Lab Sample ID: 880-28006-A-1-A MS

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 52692

Prep Batch: 52673

Sample Sample Sample Spike MS MS

WRec

	Sample	Sample	Spike	IVIO	IVIO				70Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00202	U	0.0998	0.08961		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1773		mg/Kg		89	70 - 130
o-Xylene	<0.00202	U	0.0998	0.08705		mg/Kg		87	70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 115
 70 - 130

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

Lab Sample ID: 880-28006-A-1-B MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 52692 Prep Batch: 52673

Sample Sample Spike MSD MSD RPD RPD Limit Result Qualifier babbA Result Qualifier %Rec Limits Analyte Unit Benzene <0.00202 U*+ 0.0990 0.1018 mg/Kg 103 70 - 130 0 35 Toluene <0.00202 0.0990 0.09503 mg/Kg 96 70 - 130 2 35 Ethylbenzene <0.00202 0.0990 0.09147 92 70 - 130 2 35 U mg/Kg m-Xylene & p-Xylene <0.00403 U 0.198 0.1796 mg/Kg 91 70 - 130 35 <0.00202 U 0.0990 87 70 - 130 o-Xylene 0.08700 mg/Kg 0

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 120
 70 - 130

 1,4-Difluorobenzene (Surr)
 93
 70 - 130

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

Lab Sample ID: MB 880-53015/1-A

Matrix: Solid

Analysis Batch: 52997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 53015

MB MB

	INID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/10/23 08:09	05/10/23 09:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/10/23 08:09	05/10/23 09:04	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/10/23 08:09	05/10/23 09:04	1
Total TPH	<50.0	U	50.0	mg/Kg		05/10/23 08:09	05/10/23 09:04	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed 137 S1+ 70 - 130 05/10/23 08:09 05/10/23 09:04 1-Chlorooctane o-Terphenyl 110 70 - 130 05/10/23 08:09 05/10/23 09:04

Lab Sample ID: LCS 880-53015/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA

Analysis Batch: 52997

Spike LCS LCS %Rec %Rec

 Analyte
 Added Gasoline Range Organics
 Result 1000
 Unit 982.4
 Unit mg/Kg
 D
 %Rec klimits

(GRO)-C6-C10

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Client: Ensolum Job ID: 890-4624-1 SDG: 03D2024175 Project/Site: Bandit 15 Federal Com 002

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

Lab Sample ID: LCS 880-53015/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 52997 Prep Batch: 53015

-	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Diesel Range Organics (Over	1000	1028		mg/Kg		103	70 - 130
040,000)							

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	82		70 - 130

Lab Sample ID: LCSD 880-53015/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 52997 Prep Batch: 53015

Spike LCSD LCSD %Rec RPD Added Result Qualifier Limit Analyte Unit %Rec Limits RPD 1000 1012 101 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1085

mg/Kg

109

70 - 130

5

Prep Type: Total/NA

20

1000

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	119		70 - 130
o-Terphenyl	91		70 - 130

Lab Sample ID: 890-4629-A-1-E MS Client Sample ID: Matrix Spike

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 52997									Prep	Batch: 53015
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	870.1		mg/Kg		87	70 - 130	
Diesel Range Organics (Over	<49.9	U	996	780.5		mg/Kg		76	70 - 130	

C10-C28)

	mo mo					
Surrogate	%Recovery	Qualifier	Limits			
1-Chlorooctane	107		70 - 130			
o-Terphenyl	77		70 - 130			

Lab Sample ID: 890-4629-A-1-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52997

Analysis Batch: 52997									Prep	Batch:	53015
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	996	830.0		mg/Kg		83	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	745.3		mg/Kg		72	70 - 130	5	20
C10-C28)											

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	74		70 - 130

Job ID: 890-4624-1 Client: Ensolum Project/Site: Bandit 15 Federal Com 002

SDG: 03D2024175

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52848/1-A

Matrix: Solid

Analysis Batch: 53032

Client Sample ID: Method Blank

Prep Type: Soluble

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride 6.955 5.00 mg/Kg 05/09/23 15:59

Lab Sample ID: LCS 880-52848/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53032

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 254.9 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-52848/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53032

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 270.6 mg/Kg 108 90 - 110

Lab Sample ID: 880-27940-A-81-E MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 53032

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 259 В 251 495.8 90 - 110 mg/Kg

Lab Sample ID: 880-27940-A-81-F MSD

Matrix: Solid

Analysis Batch: 53032

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 251 259 B 508.9 mg/Kg 100 90 - 110 20

Client: Ensolum Project/Site: Bandit 15 Federal Com 002 Job ID: 890-4624-1

SDG: 03D2024175

GC VOA

Prep Batch: 52673

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	5035	
MB 880-52673/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52673/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52673/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-28006-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-28006-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	8021B	52673
MB 880-52673/5-A	Method Blank	Total/NA	Solid	8021B	52673
LCS 880-52673/1-A	Lab Control Sample	Total/NA	Solid	8021B	52673
LCSD 880-52673/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52673
880-28006-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	52673
880-28006-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52673

Analysis Batch: 52874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	8015B NM	53015
MB 880-53015/1-A	Method Blank	Total/NA	Solid	8015B NM	53015
LCS 880-53015/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	53015
LCSD 880-53015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	53015
890-4629-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	53015
890-4629-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	53015

Prep Batch: 53015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	8015NM Prep	
MB 880-53015/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-53015/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-53015/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4629-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4629-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 53071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52848

Released to Imaging: 8/11/2023 2:10:14 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Soluble	Solid	DI Leach	
MB 880-52848/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52848/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52848/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Client: Ensolum Job ID: 890-4624-1 Project/Site: Bandit 15 Federal Com 002

SDG: 03D2024175

HPLC/IC (Continued)

Leach Batch: 52848 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-27940-A-81-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-27940-A-81-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 53032

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4624-1	FS03A	Soluble	Solid	300.0	52848
MB 880-52848/1-A	Method Blank	Soluble	Solid	300.0	52848
LCS 880-52848/2-A	Lab Control Sample	Soluble	Solid	300.0	52848
LCSD 880-52848/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52848
880-27940-A-81-E MS	Matrix Spike	Soluble	Solid	300.0	52848
880-27940-A-81-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	52848

Lab Chronicle

Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

Client Sample ID: FS03A

Date Collected: 05/04/23 10:55
Date Received: 05/04/23 13:26

Lab Sample ID: 890-4624-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	52673	05/05/23 12:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52692	05/05/23 23:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52874	05/08/23 16:06	AJ	EET MID
Total/NA	Analysis	8015 NM		1			53071	05/10/23 19:11	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	53015	05/10/23 10:09	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52997	05/10/23 17:43	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	52848	05/08/23 13:52	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	53032	05/09/23 17:56	SMC	EET MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

Laboratory: Eurofins Midland

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

Authority		Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	' '	but the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
8015 NM 8015B NM	8015NM Prep	Solid Solid		

1

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Method Summary

Client: Ensolum Job ID: 890-4624-1
Project/Site: Bandit 15 Federal Com 002 SDG: 03D2024175

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Carlsbad

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Sample Summary

Client: Ensolum

Project/Site: Bandit 15 Federal Com 002

Job ID: 890-4624-1 SDG: 03D2024175

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Depth

 890-4624-1
 FS03A
 Solid
 05/04/23 10:55
 05/04/23 13:26
 1.25'

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Environment Testing Xenco

Chain of Custody

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

Work Order No:	

5/11/2023

Page 18 of 20

Released to Imaging: 8/11/2023 2:10:14 PM

Company Name: Ensolum, LLC Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 City, State ZIP: Midland, TX 79701 Phone: 432-557-8895 Email: hgreen@ensolum.com, kjennings@ensolum.com Project Name: Bandit 15 Federal Com 002 Project Number: 03D2024175 Project Location: 32.5710,-103.6489 Due Date: TAT starts the day received by the lab, if received by 4:30pm PO #: SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: Namples Received Intact: Yes No Thermometer ID: Namples Received Intact: Yes No No No Thermometer ID: Namples Code Supposed Sample Custody Seals: Yes No	Project Manager:	Hadlie Green	n			Bill to: (if differ	ent)	Kale	i Jennir	nas				$\neg \vdash$			W	ork Ord	der Co	omments	
Address: 601 N Marienfeld St Suite 400 Address: 601 N Marienfeld St Suite 400 City, State ZIP: Midland, TX 79701 Collect Name: Project: Reporting: Level II													P	Program: UST/PST PRP Brownfields RRC Superfund							
City, State ZIP: Midland, TX 79701 Phone: 432-557-8895 Email: horeen@ensolum.com. kjennings@ensolum.com Project Name: Bandit 15 Federal Com 002 Turn Around Project Number: 03D2024175 Reporting: Level III																					
Project Name: Bandit 15 Federal Com 002 Turn Around Project Number: 03D2024175 Pang Blank: Rush Code Sampler's Name: Peter Van Patten Tarn starts the day received by the lab, if received by 4:30pm Samples Received Intact: Yes No Thermometer ID: Total Containers: Corrected Temperature: J. J. Sample Identification Matrix Date Sampled Sampled Depth Sampled Depth Grab/ Sample Communication Sample Communication Sampled Depth Grab/ Sample Communication Sample Communication Sampled Depth Grab/ Sampled Depth Grab/ Sample Communication Sampled Depth Samp											R	eporting:	Level II	Le	rel III 🗀] PST/l	UST [] TRRE	Level IV			
Project Name: Bandit 15 Federal Com 002 Turn Around Project Number: 03D2024175 Project Number: 03D2024175 Routine Rush Pres. Code None: No Di W Project Location: 32.5710,-103.6489 Due Date: Sampler's Name: Peter Van Patten TAT starts the day received by the lab, if received by 4:30pm the lab, if received by 4:30pm the lab, if received by 4:30pm SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: Yes No TAT Correction Factor: Sample Custody Seals: Yes No NATA Correction Factor: Pattern Time Sampled Sampled Sampled Depth Sampled Depth Sampled Depth Sampled Sampled Depth Sampled S											D										
Project Number: O3D2024175 Project Number: O3D2024175 Project Number: O3D2024175 Project Location: 32.5710,-103.6489 Due Date: TAT starts the day received by 4:30pm the lab, if													AL VCIC	DEOUE	CT					Droson	tive Codes
Project Number: O3DZ024175 Exclude Rost Code Project Location: 32.5710,-103.6489 Due Date: Sampler's Name: Peter Van Patten TAT starts the day received by 4:30pm the lab, if received by 4:30pm the lab, if received by 4:30pm SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Cooler Custody Seals: Yes No N/A Correction Factor: Sample Custody Seals: Yes No N/A Correction Factor: Sample Custody Seals: Yes No N/A Temperature Reading: Cooler Custody Seals: Yes No N/A Temperature Reading: Sample Identification Matrix Sampled Sampled Depth Sampled									T	T	ГТ	ANA	ALTOIO	REQUE	31	T -	T	ГТ			DI Water: H ₂ O
Sampler's Name: Peter Van Patten TAT starts the day received by 4:30pm PO #: SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Yes No Thermometer ID: Cooler Custody Seals: Yes No Not Temperature Reading: 2-8 Sample Custody Seals: Yes No Not Temperature: 2-8 Sample Identification Matrix Date Sampled Sampled Sampled Sampled Sampled Sampled Depth Due Date TAT starts the day received by 4:30pm TAT						□ Kusn	Code	•			-		+-+		-	+	-				MeOH: Me
Samples Received Intact: Yes No Thermometer ID: The Total Containers: Yes No No Notation Factor: Total Containers: Corrected Temperature: J. Comp Cont Sample Identification Matrix Date Sampled Sampled Sampled Sampled Sampled Depth Comp Cont Sample Containers: Sample Identification Sampled Sa	Sampler's Name:				TAT starts th							li tico nia	I Bliff (Bliff and						F	HCL: HC	MeOH: Me HNO₃: HN NaOH: Na
Samples Received Intact: Yes No Thermometer ID: The Cooler Custody Seals: Yes No MiA Correction Factor: D.	SAMPLE RECEI	IPT Tem	R Blank:	Yes No	Wet Ice:	(es No	nete	6												• •	
Total Containers: Corrected Temperature: Sample Identification Matrix Date Sampled Depth Comp Comp Comp Comp Comp Cont Sampled Depth Comp	Samples Received I			Thermometer	ID:	TMEE	7 5	98								lli –			1		
Total Containers: Corrected Temperature: Sample Identification Matrix Date Sampled Depth Comp Comp Comp Comp Comp Cont Sampled Depth Comp	Cooler Custody Sea	als: Yes No (N/A) Correction Fa			ctor:	-0.2		PA					888 (BIA 188) ,					- 1			
		als: Yes	No (NIX			2.8			_	8	€ 890	890-462	4 Chain o	f Custo	Custody			1			
	Total Containers:			Corrected Te	mperature:		2		3015	(802		- 1	1 1							VACHTASCOID	CACIO. SAFO
FS03A Soil 5/4/2023 1055 1.25' Comp 1 x x x x	Sample Ider	ntification	Matrix					를 일 H	TPH (8	ВТЕХ										Sample	Comments
	FS0	3A_	Soil	5/4/2023	1055	1.25' Con	1p 1	х	x	X					_		-		_		
						4	1					-		-		-			_		
					5 /	7															
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Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471																	Se /	Ag SiO	₂ Na 631 / 2	Sr Tl Sn U 245.1 / 7470	V Zn / 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 \$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 will be enforced unless previously negotiated.

Relinquished by: (Signature) Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Pate la Putz	An revala State	9/423 1320	2		
3			4		
5			6		Revised Date: 08/25/2020 Rev. 202

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4624-1 SDG Number: 03D2024175

Login Number: 4624 List Source: Eurofins Carlsbad

List Number: 1 Creator: Stutzman, Amanda

MS/MSDs

<6mm (1/4").

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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) True Sample containers have legible labels. Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. N/A Refer to Job Narrative for details. Sample bottles are completely filled. True N/A Sample Preservation Verified.

True

N/A

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There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4624-1

SDG Number: 03D2024175

List Source: Eurofins Midland List Creation: 05/05/23 10:46 AM

Creator: Rodriguez, Leticia

Login Number: 4624

List Number: 2

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

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<6mm (1/4").



APPENDIX D

NMOCD Notifications

From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

Subject: RE: [EXTERNAL] COG - Containment Inspection - Bandit 15 Federal Com 002 (Incident Number

NAPP2307544597)

Date: Friday, March 31, 2023 10:09:55 AM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com

Sent: Thursday, March 30, 2023 8:34 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COG - Containment Inspection - Bandit 15 Federal Com 002 (Incident Number

NAPP2307544597)

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 an email notification for liner inspection at COG Operating, LLC (COG) Bandit 15 Federal Com 002 (Incident Number NAPP2307544597) / Spill Date 3-2-2023. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of COG on Monday, April 3, 2023. Please call with any questions or concerns.

GPS: 32.5710, -103.6489

Thank you,



Hadlie Green

Project Manager 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 4/17/2023)

Date: Friday, April 14, 2023 10:36:57 AM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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 JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com

Sent: Thursday, April 13, 2023 8:51 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 4/17/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following sites the week of April 17, 2023.

- Wilder 28-1 / NAPP2301736973
 - Sampling Date: 4/17-19/2023 @ 10:00 AM MST
- Bandit 15 Federal Com 002H / NAPP2307544597
 - Sampling Date: 4/21/2023 @ 10:00 AM MST

Thank you,





Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC From: Enviro, OCD, EMNRD

To: Hadlie Green

Cc: <u>Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD</u>

Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 4/24/2023)

Date: Thursday, April 20, 2023 4:32:26 PM

Attachments: <u>image005.jpg</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com/

Sent: Thursday, April 20, 2023 2:33 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] COP - Sampling Notification (Week of 4/24/2023)

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

Αll,

ConocoPhillips Company (COP) plans to complete sampling activities at the following sites the week of April 24, 2023.

- Bandit 15 Federal Com 002H / NAPP2307544597
 - Sampling Date: 4/24-26/2023 @ 10:00 AM MST

- Jazzmaster 17 ST 3H / NAPP2306543550
 - Sampling Date: 4/27/2023 @ 10:00 AM MST
- Treasure Island Federal 1H / NAPP2310337528
 - Sampling Date: 4/28/2023 @ 10:00 AM MST

Thank you,





APPENDIX E

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2307544597
District RP	
Facility ID	fAPP2202651171
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2307544597
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

			Location	of R	elease Source)		
Latitude	32.571	0			Longitude1	03.6	489	
			(NAD 83 in dec	imal de	grees to 5 decimal places	5)		
Site Name		Bandit 15 F	ederal Com	002	Site Type	Tank	Battery	
Date Release	Discovered	March 2, 20)23		API# (if applicable)	30-02	25-37231	
Unit Letter	Section	Township	Range		County			
J	15	20S	33E		Lea			
			·		·			

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) 0.19	Volume Recovered (bbls) 0.17
Produced Water	Volume Released (bbls) 18.7	Volume Recovered (bbls) 16.83
	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

The release was caused by a hole in the bottom of a tank due to corrosion.

The release was on the pad within a unlined berm. A vacuum truck was dispatched to remove all freestanding fluids.

Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

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Incident ID	NAPP2307544597
District RP	
Facility ID	fAPP2202651171
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
Yes No		
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
■ All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
D 10.15.00.0 D (A) 3114	1101	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig addition, OCD acceptance o and/or regulations.	required to report and/or file certain release not ment. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thro- f a C-141 report does not relieve the operator of	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name Brittar	ny N. Esparza	Title: Environmental Technician
Signature:	ny N. Esparza	
Drittony Ecnar	za@ConocoPhillips.com	Date: 3/16/2023 Telephone: (432) 221-0398
email:	<u>'</u>	Telephone: (1997) — 1999
OCD Only		
	elyn Harimon	Date: 03/16/2023
Received by		Date: <u>03/16/2023</u>

Spill Calculation - Subsurface Spill - Rectangle									Remediation	Recommendation		
Convert monther chance	OCD: Length (ft.)	3/16/ Width (ft.)	2023 1 Waraga Depth (in.)	2:27:05 Pad (dropdown)	Soll Spilled-Fluid	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	NAPP2307544597 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.)	Total Estimated Contaminated Soil, uncompacted, 25% (yd ³ .)	Pager 3 of 14 of Thumb - RMR Handover Volume, (yd³.)
Rectangle A	86.0	47.0	3.0	On-Pad~	10.50%	179.87	18.89	1	0.19	18.70	46.78	
Rectangle B			1	On-PadY	10.50%	0.00	0.00		0.00	0.00	0.00	
Rectangle C				On-PadY	10.50%	0.00	0.00		0.00	0.00	0.00	
Rectangle D				~		0.00					0.00	
Rectangle E				×		0.00		1%			0.00	750
Rectangle F				V		0.00		170			0.00	/50
Rectangle G				~		0.00					0.00	
Rectangle H				~		0.00					0.00	
Released to 1	magir	10. 3/	16/202	8 3-21-4	6 PM	0.00					0.00	
Reclangleu	ining ii	81 50			0.4.204	0.00					0.00	
					Total St	ibsurface Volume Released:	18.89		0.19	18.70	46.78	BU

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

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

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

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

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

CONDITIONS

Action 197974

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	197974
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created		Condition Date
jharin	n None	3/16/2023

e of New Mexico

Incident ID	NAPP2307544597
District RP	
Facility ID	fAPP2202651171
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs 	ls.

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.

Topographic/Aerial maps

Photographs including date and GIS information

☐ Laboratory data including chain of custody

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	1 480 112 0/ 12
Incident ID	NAPP2307544597
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Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Printed Name:Jacob Laird	Title:Environmental Engineer				
Signature: Jacob Laird	Date:5/26/2023				
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482				
OCD Only					
Received by:	Date: <u>05/25/2023</u>				

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Incident ID	NAPP2307544597
District RP	
Facility ID	fAPP2202651171
Application ID	

Closure

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

Closure Report Attachmo	ent Checklist: Each of the following	items must be incl	uded in the closure report.
A scaled site and samp	oling diagram as described in 19.15.29.	.11 NMAC	
Photographs of the rer must be notified 2 days pri		s of the liner integr	ity if applicable (Note: appropriate OCD District office
□ Laboratory analyses of the second	f final sampling (Note: appropriate OD	C District office m	ust be notified 2 days prior to final sampling)
□ Description of remedia	ation activities		
and regulations all operators may endanger public health should their operations have human health or the environ compliance with any other frestore, reclaim, and re-vege accordance with 19.15.29.13 Printed Name:Jacob Lair Signature:Jacob Lair	s are required to report and/or file certa or the environment. The acceptance of failed to adequately investigate and re- ment. In addition, OCD acceptance of ederal, state, or local laws and/or regul	in release notification of a C-141 report by emediate contaminal for a C-141 report does lations. The responditions that exists OCD when reclamate Title: _Environment.	y knowledge and understand that pursuant to OCD rules ons and perform corrective actions for releases which the OCD does not relieve the operator of liability tion that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for sible party acknowledges they must substantially ed prior to the release or their final land use in tion and re-vegetation are complete. ental Engineer
OCD Only			
Received by:Joce	elyn Harimon	_ Date:	05/25/2023
remediate contamination tha		water, human heal	their operations have failed to adequately investigate and th, or the environment nor does not relieve the responsible
Closure Approved by:	Nelson Velez Nelson Velez		08/11/2023
Printed Name:	Nelson Velez	Title: _	Environmental Specialist – Adv

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

CONDITIONS

Action 220664

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	220664
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	8/11/2023