



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

Treasure Island Federal 001H Incident Number NAPP2310337528 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 and soil sampling activities performed at the Treasure Island Federal 001H (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following small a crude oil flare fire at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, COG is submitting this *Closure Request*, requesting closure for Incident Number NAPP2310337528.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 23, Township 24 South, Range 32 East, in Lea County, New Mexico (32.1961°, -103.6383°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On March 31, 2023, an oil dump malfunction caused approximately 0.01 barrels (bbls) of crude oil to be sent to the flare. The crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on March 31, 2023, and submitted a Release Notification Form C-141 (Form C-141) on April 13, 2023. The release was assigned Incident Number NAPP2310337528.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 55 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) C-04622, located approximately 0.68 miles east of the Site. The groundwater well was drilled during June 2022 to a total depth of 55 feet bgs, and no groundwater was encountered. All wells used for depth to groundwater determination are presented on Figure 1. The associated well records are included in Appendix A.

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

Treasure Island Federal 001H Closure Request COG Operating, LLC



The closest continuously flowing or significant watercourse to the Site is a wetland, located approximately 1.8 miles northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 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
- Total Petroleum Hydrocarbons (TPH): 2,500 mg/kg
- Chloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On April 28, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. No visible indications of the release or fire were observed. Four soil samples (SS01 through SS04) were collected around the flare stack at a depth of approximately 0.5 feet bgs to confirm the lateral extent of the release. One borehole was advanced via hand-auger beneath the flare stack to assess for the presence or absence of impacted soil resulting from the crude oil flare fire. Discrete soil samples SS05 and SS05A were collected from the borehole at depths of approximately 0.5 feet bgs and 1-foot bgs, respectively. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations for the borehole were logged on a lithologic soil sampling log, which is included in Appendix B. The 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 as Appendix C.

The soil samples were placed into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and placed on ice. The soil samples were transported under 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.

Laboratory analytical results for soil samples SS01 through SS04 and SS05/SS05A, collected within and around the flare stack, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix D.

CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the March 31, 2023, crude oil flare fire. Laboratory analytical results for the soil samples, collected within and around the flare stack, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria.

Treasure Island Federal 001H Closure Request COG Operating, LLC



Depth to groundwater has been estimated to be between 51 and 100 feet bgs and no other sensitive receptors were identified near the release extent. Based on soil sample laboratory analytical results compliant with the most stringent Table 1 Closure Criteria, no impacted soil was identified, and no excavation was warranted as a result of the small crude oil fire. As such, COG respectfully requests closure for Incident Number NAPP2310337528. The C-141 is included in Appendix F.

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

Sincerely, **Ensolum, LLC**

Peter Van Patten Project Geologist Aimee Cole Senior Managing Scientist

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

Appendices:

Figure 1 Site Receptor Map Figure 2 Soil Sample Locations

Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records
Appendix B Lithologic/Soil Sampling Log

Appendix C Photographic Log

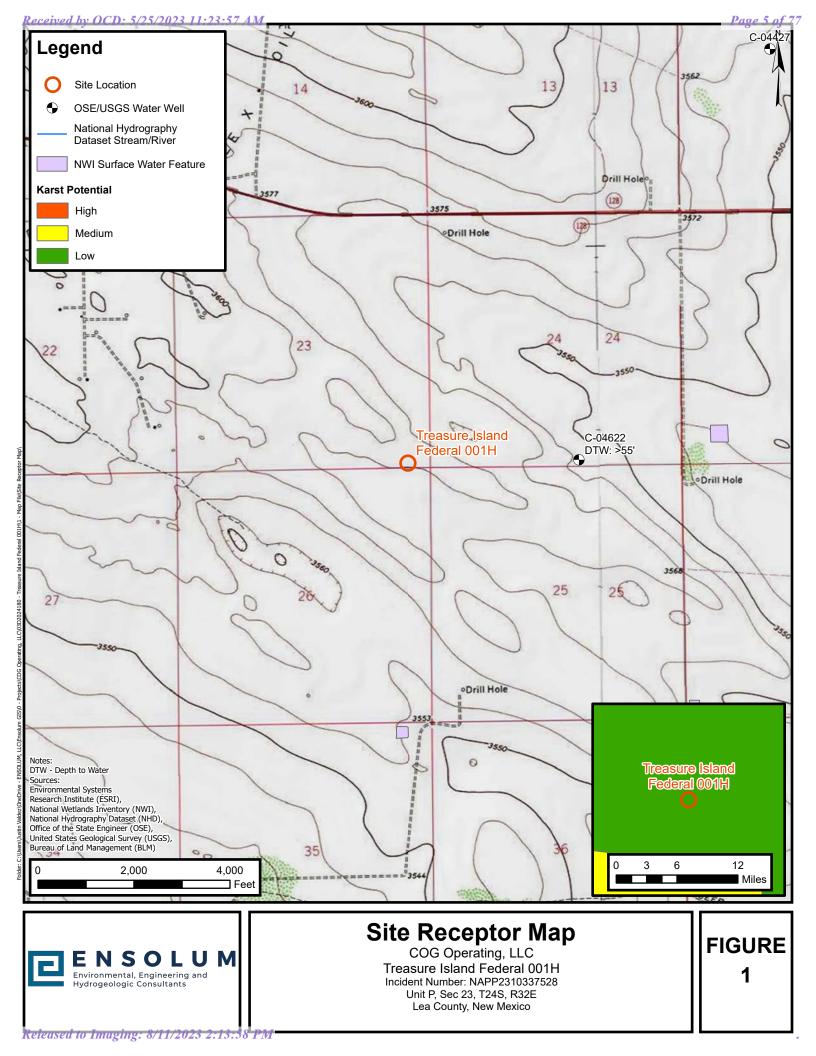
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

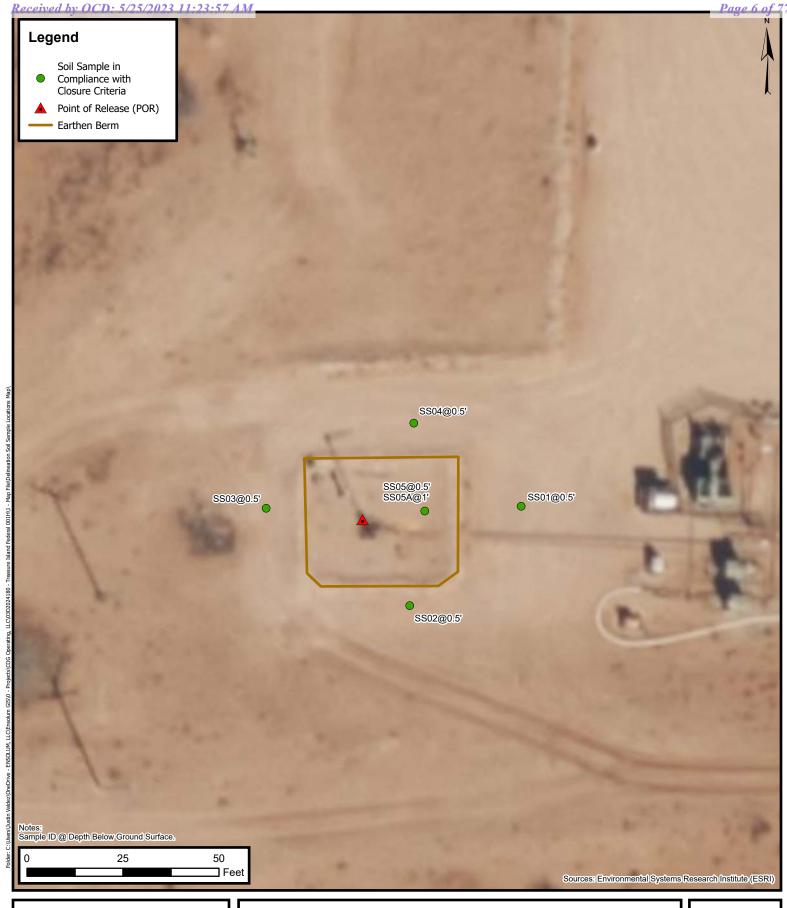
Appendix E NMOCD Notifications

Appendix F Final C-141



FIGURES







Soil Sample Locations COG Operating, LLC

Treasure Island Federal 001H
Incident Number: NAPP2310337528
Unit P, Sec 23, T24S, R32E
Lea County, New Mexico

FIGURE 2



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Treasure Island Federal 001H
COG Operating, LLC
Lea County, New Mexico

				Lea	County, New Me	AICO				
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	10,000
				Preliminar	y Assessment Sc	oil Samples				
SS01	4/28/2023	0.5	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	73.8
SS02	4/28/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	76.9
SS03	4/28/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	59.0
SS04	4/28/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	73.6
SS05	4/28/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	72.7
SS05A	4/28/2023	1	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	76.7

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



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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	124				ackie D. Atkins							ering Associate	s, Inc.
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	6/7/2	022	6/7/2022	Tem	porary Well			±55				N/A	
Z	COMPLETE	O WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLOV	W (UNCONF	INED)	I		WATER LEVE PLETED WELL			IC MEASURED 3/2022
) I	DRILLING FI	LUID:	☐ AIR	☐ MUD	ADDITIVI	ES – SPECIF	Y:	- 1					
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	0	4	4	Sand, Fine-grained, poorly graded, 2.5 YR 3/6, Dark Red	Y ✓N	
	4	13	9	Caliche, with Fine-grained sand, 7.5 YR 7/4, Pink	Y √N	
	13	34	21	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7/6, Reddish Ye	ellow Y / N	
	34	55	21	Sand, Fine-grained, poorly graded, unconsolidated, 7.5 YR 7/6, Reddish Y	ellow Y ✓N	
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3					Y N	
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100					Y N	
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20					Y N	
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	PUMI	P DA	IR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	0.00
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-	CATION	100	24.32		1000	PAGE 2 OF 2
				THE TAG ID NO.		

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

726166

File Nbr:

C 04622

Well File Nbr: C 04622 POD1

Jun. 16, 2022

DALE WOODALL DEVON ENERGY 6488 7 RIVERS HWY ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/23/2022.

The Well Record was received in this office on 06/16/2022, stating that it had been completed on 06/07/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/23/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Amaral (575) 622-6521

drywell



2904 W 2nd St. Roswell, NM 88201 voice: 575.624.2420 fax: 575.624.2421 www.atkinseng.com

June 8, 2022

DII-NMOSE 1900 W 2nd Street Roswell, NM 88201

Hand Delivered to the DII Office of the State Engineer

Re: Well Record C-4622 Pod1 at Bell Lake 24 Fed 4

To whom it may concern:

Attached please find a well log & record and a plugging record, in duplicate, for a one (1) soil borings, C-4622 Pod1.

If you have any questions, please contact me at 575.499.9244 or lucas@atkinseng.com.

Sincerely,

Lucas Middleton

Enclosures: as noted above

Grean Middle

DSE DTI JUN 16:2022 PM3:09

PAGE 1 OF 2

WELL TAG ID NO.

OSE DTI JUL 9 2021 PM 1:52



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

05E 00 JUN 21 2021 PM10:14

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3	12	9	CALICHE	Y ✓N	
12	180	168	RED CLAY	Y ✓ N	
180	235	415	TAN SANDSTONE	Y ✓N	
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	PUMP []A	AIR LIFT	BAILER OTHER - SPECIFY:	WELL YIELD (gpm):	4.00
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MISCE	LLANEOUS IN	FORMATION:			
PRINT	NAME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	STRUCTION OTHER TH	IAN LICENSEE
THE U	ECT RECORD C	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING:	EF, THE FOREGOING IS ECORD WITH THE STA	A TRUE AND TE ENGINEER
THE U	ECT RECORD C	F THE ABOVE D	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R	EF, THE FOREGOING IS ECORD WITH THE STA 06/16/2021	A TRUE AND TE ENGINEER
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THE U	ECT RECORD OF THE PORMIT HO	of the above d older within 2	ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R 0 DAYS AFTER COMPLETION OF WELL DRILLING: Bryce Wallace R / PRINT SIGNEE NAME	ECORD WITH THE STA	TE ENGINEER

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



Well Site

DESCRIPTION:

Latitude 32°10'21.6", Longitude 103°40'18.9" NAD83

Lea County, New Mexico , Hydrologic Unit 13070001

Well depth: 367 feet

Land surface altitude: 3,499.00 feet above NGVD29.

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

Well completed in "Chinle Formation" (231CHNL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-18	2013-01-17	7
Revisions	Unavailable ((site:0) (times	eries: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

Released to Imaging: 8/11/2023 2:13:58 PM



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: SS05	Date: 4/28/2023
	7							Site Name: Treasure Island Feder	
			N	5	OI	_ U	M	Incident Number: NAPP2310337	
								Job Number: 03D2024180	520
		LITHOL	OGI	r / soli s	SAMPLING	LOG		Logged By: Ronni Hayes	Method: Hand Auger
Coord	inates:			C / GOIL C	, Liive			Hole Diameter:	Total Depth: 1'
		ld screen	ing co	nducted w	ith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respec	· ·
perfor	med with	n 1:4 dilut	tion fa	actor of soi	l to distilled	water. 40%	correctior	factors included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
Dry	ND	0.8	N	SS05	0.5 <u>-</u>	L 0 -	СННЕ	Caliche: off white, light tan	, no stain, no odor
Dry	173.8	0.7	N	SS05A	1 _	1	SP-SM	Sand: brown, tan, medium graded, some caliche grave TD at 1' bgs	to fine grain, poorly el, no stain, no odor
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					-	- 12			



APPENDIX C

Photographic Log



Photographic Log

COG Operating, LLC
Treasure Island Federal 001H
Incident Number: NAPP2310337528





Date: 4/18/2023

Photograph: 1 Date: 4/18/2023

Description: View of flare stack

View: Southwest

Photograph: 2

Description: View of flare stack

View: South





Photograph: 3 Date: 4/28/2023

Description: Site assessment activities

View: Southwest

Photograph: 4 Date: 4/28/2023

Description: Site assessment activities

View: Southwest



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kelly Lowery Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

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JOB DESCRIPTION

Treasure Island Fed 001H SDG NUMBER 03D2024180

JOB NUMBER

890-4597-1

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

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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: Treasure Island Fed 001H

Laboratory Job ID: 890-4597-1
SDG: 03D2024180

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Definitions/Glossary

Job ID: 890-4597-1 Client: Ensolum Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC Qualifier

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

Qualifier Description

Glossary

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

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

NC Not Calculated

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

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

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Job ID: 890-4597-1

Case Narrative

Client: Ensolum

Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Job ID: 890-4597-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4597-1

Receipt

The samples were received on 4/28/2023 3:09 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS05 (890-4597-1) and SS05A (890-4597-2).

GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS05 (890-4597-1) and (MB 880-52339/5-A). Evidence of matrix interferences is not obvious.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (MB 880-52362/8). Evidence of matrix interferences is not obvious

Method 8021B: The continuing calibration verification (CCV) associated with batch 880-52362 recovered above the upper control limit for Toluene. An acceptable CCV was ran within the 12 hour window therefore, the data have been reported. The associated sample is impacted: (CCV 880-52362/29).

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-52400/2-A) and (LCSD 880-52400/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-4592-A-5-D MS) and (890-4592-A-5-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS05A (890-4597-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52400 and analytical batch 880-52354 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.

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52486 and analytical batch 880-52596 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. The associated samples are: SS05 (890-4597-1), SS05A (890-4597-2), (890-4597-A-1-G MS) and (890-4597-A-1-H MSD).

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

Matrix: Solid

Lab Sample ID: 890-4597-1

Client Sample Results

Client: Ensolum

Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Client Sample ID: SS05

Date Collected: 04/28/23 12:15 Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/23 16:00	05/03/23 01:24	
Toluene	< 0.00199	U	0.00199	mg/Kg		05/02/23 16:00	05/03/23 01:24	
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/02/23 16:00	05/03/23 01:24	
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/02/23 16:00	05/03/23 01:24	
o-Xylene	<0.00199	U	0.00199	mg/Kg		05/02/23 16:00	05/03/23 01:24	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/23 16:00	05/03/23 01:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	140	S1+	70 - 130			05/02/23 16:00	05/03/23 01:24	
1,4-Difluorobenzene (Surr)	88		70 - 130			05/02/23 16:00	05/03/23 01:24	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00398	U	0.00398	mg/Kg			05/03/23 11:14	
Total TPH	<50.0	U	50.0	mg/Kg			05/03/23 09:18	
Total TPH	<50.0	U	50.0	mg/Kg			05/03/23 09:18	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	_	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:22	
(GRO)-C6-C10	50.0		50.0			05/00/00 44 40	05/00/00 40 00	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:22	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:22	
Total TPH	<50.0		50.0	mg/Kg		05/02/23 11:49	05/02/23 16:22	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	90		70 - 130			05/02/23 11:49	05/02/23 16:22	
o-Terphenyl	72		70 - 130			05/02/23 11:49	05/02/23 16:22	
- -								
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
			RL					

Client Sample ID: SS05A Lab Sample ID: 890-4597-2

5.03

mg/Kg

72.7 F1

Date Collected: 04/28/23 12:30 Date Received: 04/28/23 15:09

Sample Depth: 1'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/02/23 16:00	05/03/23 01:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/02/23 16:00	05/03/23 01:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/02/23 16:00	05/03/23 01:50	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/02/23 16:00	05/03/23 01:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/02/23 16:00	05/03/23 01:50	1
Xylenes, Total	< 0.00403	U	0.00403	mg/Kg		05/02/23 16:00	05/03/23 01:50	1

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05/04/23 04:22

Matrix: Solid

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Matrix: Solid

Lab Sample ID: 890-4597-2

05/04/23 04:38

Client Sample Results

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS05A

Date Collected: 04/28/23 12:30 Date Received: 04/28/23 15:09

Chloride

%Recovery		Limits			Prepared	Analyzed	Dil Fac
130	- Guainioi	70 - 130			05/02/23 16:00	05/03/23 01:50	- Dil Tac
87		70 - 130			05/02/23 16:00	05/03/23 01:50	1
otal BTEX Cald	culation						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00403	U	0.00403	mg/Kg			05/03/23 11:14	1
Range Organ	ics (DRO) (GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg			05/03/23 09:18	1
el Range Orga	nics (DRO)	(GC)					
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:43	1
<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:43	1
<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:43	1
<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 16:43	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
86		70 - 130			05/02/23 11:49	05/02/23 16:43	
69	S1-	70 - 130			05/02/23 11:49	05/02/23 16:43	1
	Result <0.00403 Range Organ Result <50.0	Range Organics (DRO) (Result Qualifier <0.00403 U Range Organics (DRO) (Result Qualifier <50.0 U <50.0 U <50.0 U %Recovery Recovery 86	Result Qualifier RL	Result Qualifier RL Unit mg/Kg	Result Qualifier RL Unit D	Result Qualifier RL Unit D Prepared	Detail BTEX Calculation Result Qualifier RL Unit D Prepared Analyzed O5/03/23 11:14

4.98

mg/Kg

76.7

Surrogate Summary

Client: Ensolum Job ID: 890-4597-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

BFB1 DFBZ1
Lab Sample ID Client Sample ID (70-130) (70-130)
880-27759-A-1-C MS Matrix Spike 105 74
880-27759-A-1-D MSD Matrix Spike Duplicate 127 97
890-4597-1 SS05 140 S1+ 88
890-4597-2 SS05A 130 87
LCS 880-52339/1-A Lab Control Sample 106 75
LCSD 880-52339/2-A Lab Control Sample Dup 104 76
MB 880-52339/5-A Method Blank 68 S1- 83
MB 880-52362/8 Method Blank 69 S1- 78
Surrogate Legend BFB = 4-Bromofluorobenzene (Surr)

DED7 4.4 Diff

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4592-A-5-D MS	Matrix Spike	84	62 S1-
890-4592-A-5-E MSD	Matrix Spike Duplicate	85	62 S1-
890-4597-1	SS05	90	72
890-4597-2	SS05A	86	69 S1-
LCS 880-52400/2-A	Lab Control Sample	82	63 S1-
LCSD 880-52400/3-A	Lab Control Sample Dup	87	66 S1-
MB 880-52400/1-A	Method Blank	112	92

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52339/5-A

Lab Sample ID: LCS 880-52339/1-A

Matrix: Solid Analysis Batch: 52362

Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Matrix: Solid

Analysis Batch: 52362

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52339

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
 <0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
<0.00400	U	0.00400	mg/Kg		05/01/23 15:45	05/02/23 15:51	1
<0.00200	U	0.00200	mg/Kg		05/01/23 15:45	05/02/23 15:51	1

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130	05/01/23 15:45	05/02/23 15:51	1
1.4-Difluorobenzene (Surr)	83		70 - 130	05/01/23 15:45	05/02/23 15:51	1

0.00400

Client Sample ID: Lab Control Sample

05/01/23 15:45

Prep Type: Total/NA

05/02/23 15:51

Prep Batch: 52339

Prep Type: Total/NA

Prep Batch: 52339

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1083 mg/Kg 108 70 - 130 Toluene 0.100 0.1119 mg/Kg 112 70 - 130 0.100 0.1003 100 Ethylbenzene mg/Kg 70 - 130 0.200 0.2057 103 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09980 70 - 130 o-Xylene mg/Kg 100

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	75		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-52339/2-A

Analysis Batch: 52362

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1077		mg/Kg		108	70 - 130	0	35
Toluene	0.100	0.1129		mg/Kg		113	70 - 130	1	35
Ethylbenzene	0.100	0.09984		mg/Kg		100	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2036		mg/Kg		102	70 - 130	1	35
o-Xylene	0.100	0.09853		mg/Kg		99	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1.4-Difluorobenzene (Surr)	76		70 - 130

Lab Sample ID: 880-27759-A-1-C MS

Matrix: Solid

Analysis Batch: 52362

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

Prep Batch: 52339

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.09929		mg/Kg	_	99	70 - 130	
Toluene	< 0.00199	U	0.0998	0.09626		mg/Kg		96	70 - 130	

QC Sample Results

Client: Ensolum Job ID: 890-4597-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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

Lab Sample ID: 880-27759-A-1-C MS

Lab Sample ID: 880-27759-A-1-D MSD

Matrix: Solid Analysis Batch: 52362 Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 52339

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene < 0.00199 U 0.0998 0.08149 82 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00398 0.200 0.1636 mg/Kg 82 70 - 130 0.0998 o-Xylene <0.00199 U 0.08188 82 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	74		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 52339

Analysis Batch: 52362

Matrix: Solid

Sample Sample Spike MSD MSD RPD Result Qualifier Added Result Qualifier RPD Limit Analyte Unit %Rec Limits 0.100 Benzene <0.00199 U 0.1128 mg/Kg 112 70 - 130 13 35 0.1033 103 Toluene <0.00199 0.100 mg/Kg 70 - 130 7 35 Ethylbenzene <0.00199 0.100 0.08989 90 70 - 130 10 35 U mg/Kg 0.201 35 m-Xylene & p-Xylene <0.00398 U 0.1810 mg/Kg 90 70 - 130 10 <0.00199 U 0.100 0.08771 87 70 - 130 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1 4-Difluorobenzene (Surr)	97	70 130

Lab Sample ID: MB 880-52362/8

Matrix: Solid

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

Analysis Batch: 52362

Analysis Batem. 02002

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Toluene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg			05/02/23 11:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg			05/02/23 11:47	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg			05/02/23 11:47	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	69	S1-	70 - 130		05/02/23 11:47	1
1,4-Difluorobenzene (Surr)	78		70 - 130		05/02/23 11:47	1

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

Lab Sample ID: MB 880-52400/1-A

Matrix: Solid

Analysis Batch: 52354

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 52400

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Factoria

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 05/02/23 08:49
 05/02/23 09:01
 1

(GRO)-C6-C10

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Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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

Lab Sample ID: MB 880-52400/1-A

Matrix: Solid

Analysis Batch: 52354

Client Sample ID: Method Blank

70 - 130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 52400

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/02/23 08:49	05/02/23 09:01	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/02/23 08:49	05/02/23 09:01	1
Total TPH	<50.0	U	50.0	mg/Kg		05/02/23 08:49	05/02/23 09:01	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	05/02/23 08:49	05/02/23 09:01	1
o-Terphenyl	92		70 - 130	05/02/23 08:49	05/02/23 09:01	1

Lab Sample ID: LCS 880-52400/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Diesel Range Organics (Over

Analysis Batch: 52354							Prep	Batch:	52400
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	1037		mg/Kg		104	70 - 130		
(GRO)-C6-C10									

939.7

mg/Kg

1000

C10-C28)

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	63	S1-	70 - 130

Lab Sample ID: LCSD 880-52400/3-A **Client Sample ID: Lab Control Sample Dup**

Matrix: Solid

Analysis Ratch: 52354

Analysis Batch: 52354							Prep	Batch:	52400
	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1024		mg/Kg		102	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	986.2		mg/Kg		99	70 - 130	5	20

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	66	S1-	70 - 130

Lab Sample ID: 890-4592-A-5-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 52354									Prep	Batch: 52400
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	998	1281		mg/Kg		124	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U F1	998	580.6	F1	mg/Kg		54	70 - 130	
C10-C28)										

C10-C28)

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

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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

Lab Sample ID: 890-4592-A-5-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 52354

Prep Type: Total/NA Prep Batch: 52400

MS MS

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

Lab Sample ID: 890-4592-A-5-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 52354

Prep Type: Total/NA

Prep Batch: 52400

MSD MSD RPD Sample Sample Spike %Rec Result Qualifier RPD Analyte Result Qualifier Added Unit %Rec Limits Limit Gasoline Range Organics <49.9 U 997 1283 mg/Kg 124 70 - 130 0 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 997 586.4 F1 mg/Kg 55 70 - 130

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	62	S1-	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52486/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52596

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/04/23 04:06	1

Lab Sample ID: LCS 880-52486/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52596

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	235.8		ma/Ka	_	94	90 - 110	

Lab Sample ID: LCSD 880-52486/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 52596

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	236.8		ma/Ka		95	90 - 110		20

Lab Sample ID: 890-4597-1 MS Client Sample ID: SS05 **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 52596

7									
	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloride	72.7	F1	252	294.2	F1	ma/Ka		88	90 - 110

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Prep Type: Soluble

QC Sample Results

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-4597-1 MSD Client Sample ID: SS05 **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 52596

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	72.7	F1	252	294.7	F1	mg/Kg		88	90 - 110	0	20

QC Association Summary

Client: Ensolum Job ID: 890-4597-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

GC VOA

Prep Batch: 52339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	5035	
890-4597-2	SS05A	Total/NA	Solid	5035	
MB 880-52339/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52339/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52339/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27759-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-27759-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	8021B	52339
890-4597-2	SS05A	Total/NA	Solid	8021B	52339
MB 880-52339/5-A	Method Blank	Total/NA	Solid	8021B	52339
MB 880-52362/8	Method Blank	Total/NA	Solid	8021B	
LCS 880-52339/1-A	Lab Control Sample	Total/NA	Solid	8021B	52339
LCSD 880-52339/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52339
880-27759-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	52339
880-27759-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52339

Analysis Batch: 52496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	Total BTEX	
890-4597-2	SS05A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	8015B NM	52400
890-4597-2	SS05A	Total/NA	Solid	8015B NM	52400
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015B NM	52400
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52400
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52400
890-4592-A-5-D MS	Matrix Spike	Total/NA	Solid	8015B NM	52400
890-4592-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52400

Prep Batch: 52400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	8015NM Prep	
890-4597-2	SS05A	Total/NA	Solid	8015NM Prep	
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4592-A-5-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4592-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52466

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Total/NA	Solid	8015 NM	
890-4597-2	SS05A	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: Ensolum

Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

HPLC/IC

Leach Batch: 52486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Soluble	Solid	DI Leach	
890-4597-2	SS05A	Soluble	Solid	DI Leach	
MB 880-52486/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52486/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52486/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4597-1 MS	SS05	Soluble	Solid	DI Leach	
890-4597-1 MSD	SS05	Soluble	Solid	DI Leach	

Analysis Batch: 52596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4597-1	SS05	Soluble	Solid	300.0	52486
890-4597-2	SS05A	Soluble	Solid	300.0	52486
MB 880-52486/1-A	Method Blank	Soluble	Solid	300.0	52486
LCS 880-52486/2-A	Lab Control Sample	Soluble	Solid	300.0	52486
LCSD 880-52486/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52486
890-4597-1 MS	SS05	Soluble	Solid	300.0	52486
890-4597-1 MSD	SS05	Soluble	Solid	300.0	52486

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Lab Chronicle

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS05 Lab Sample ID: 890-4597-1 Date Collected: 04/28/23 12:15

Matrix: Solid

Date Received: 04/28/23 15:09

	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	52339	05/02/23 16:00	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52362	05/03/23 01:24	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52496	05/03/23 11:14	SM	EET MID
Total/NA	Analysis	8015 NM		1			52466	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52400	05/02/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 16:22	SM	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	52486	05/03/23 10:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52596	05/04/23 04:22	SMC	EET MID

Client Sample ID: SS05A Lab Sample ID: 890-4597-2

Date Collected: 04/28/23 12:30 **Matrix: Solid** Date Received: 04/28/23 15:09

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 4.96 g 5 mL 52339 05/02/23 16:00 MNR EET MID 8021B Total/NA 5 mL 52362 05/03/23 01:50 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 52496 05/03/23 11:14 Analysis 1 SM **EET MID** Total/NA Analysis 8015 NM 52466 05/03/23 09:18 SM **EET MID** Total/NA 52400 Prep 8015NM Prep 10.01 g 10 mL 05/02/23 11:49 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 52354 05/02/23 16:43 SM **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 52486 05/03/23 10:38 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 52596 05/04/23 04:38 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: 890-4597-1 Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
exas	N	IELAP	T104704400-22-25	06-30-23
The following analytes the agency does not of	•	out the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes fo
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Total TPH	

Method Summary

Client: Ensolum Job ID: 890-4597-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

		= 3
Protocol	Laboratory	
SW846	EET MID	A
TAL SOP	EET MID	
CMO46	CCT MID	

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:

Method

ASTM = ASTM International

EPA = US Environmental Protection Agency

Method Description

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: Ensolum

Project/Site: Treasure Island Fed 001H

Job ID: 890-4597-1

SDG: 03D2024180

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depti
890-4597-1	SS05	Solid	04/28/23 12:15	04/28/23 15:09	0.5'
890-4597-2	SS05A	Solid	04/28/23 12:30	04/28/23 15:09	1'

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www.xenco.com

Work Order No:

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

Environment Testing Xenco

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

Chain of Custody

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

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

roject Manager: ompany Name:	Hadle Green Ensolun LL	16		Bill to: (if different) Company Name:	ferent) lame:		Kales Enslan	Water Jemings	Program:	UST/PST	Work Order Comments] PRP□ Brownfields□	RRC Superfund
	3/22 Nation	1 Parks Hun	Jun	Address:					State o	State of Project:		
	Cailsbad, NM		20	City, State ZIP:	IIP.			3	Report	Reporting: Level II 🗌 Level III 🗌		PST/UST TRRP Level IV
	432-557-8	-8885	Email:		nareen		Q.ersolum.	200	Deliverables:	EDD	ADaPT O	Other:
	Trasure Island Fed WH	1 Fed With	Tum	Turn Around				ANALYSI	ANALYSIS REQUEST		Preser	Preservative Codes
roject Number:	0317202060	0	Routine	Rush	Pres. Code						None: NO	DI Water: H ₂ O
roject Location:	32.1941 -103.6383	. 6383	Due Date:	Sday	~				_	-	Cool: Cool	MeOH: Me
ampler's Name:	Ronni Hugs		TAT starts the day received by	dayreceived	by						HCL: HC	HNO 3: HN
	,		tne lab, it rece	lived by 4:30		_					H ₂ SO ₄ : H ₂	NaOH: Na
AMPLE RECEIPT	Temp Blank:	(e) No	Wet ice:	(es) No	ne te r						H ₃ PO ₄ : HP	
amples Received Intact:	(Nes No	Thermometer ID:	r ID:	INNA	200						NaHSO 4: NABIS	ABIS
ooler Custody Seals:	Yes No NA	Correction Factor:	actor:	-0-	50	_		890-4597 C	890-4597 Chain of Custody		Na 2 5 2 0 3: Na 50 3	150 3
ample Custody Seals:	Yes No NA	Temperature Reading:	e Reading:	,)	6		X	-	-		Zn Acetate+NaOH: Zn	NaOH: Zn
otal Containers:		Corrected Temperature:	emperature:	-	0	-	1				NaOH+Asco	NaOH+Ascorbic Acid: SAPC
Sample Identification	ation Matrix	Date	Time	Depth	Grab/ # of Comp Cont	اگ آ	18				Samp	Sample Comments
4665	5	4/28/23	5121	15.0	V	×	×					
5505A	>	4		.)	4	×	×					
/												
	_											
		-										
		The			 	1						
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									7			
Total 200.7 / 6010 rcle Method(s) and	Total 200.7 / 6010 200.8 / 6020: Jircle Method(s) and Metal(s) to be analyzed		8RCRA 13PPM TCLP / SPL	M Texas 11 AI S	11 AI S 8RCRA	b As Ba	a Be B Cd 3a Be Cd	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni CRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	b Mg Mn Mc o Ni Se Ag Tl	o Ni K Se Ag SiO ₂ Na Sr Tl Sn I U Hg: 1631/245.1/7470	Sr Tl Sn U V Z 15.1 / 7470 / 7471	Zn 71
fthis docume Xenco will be A minimum d	ent and relinquishment of same le lable only for the cost of samharge of \$85.00 will be applied	ples constitutes a viples and shall not a	alid purchase orde assume any respor nd a charge of \$5 fo	er from client consibility for any or each sample	mpany to El osses or ext submitted t	irofins Xenco enses Incurre Eurofins Xe	, its affiliates and of by the client li nco, but not ana	otice: 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 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 Eurofins Xenco will be lable 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. 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.	dard terms and condition controls beyond the controls ced unless previously in	ions trol egotiated.		
ed by: (Si	Relinquished by: (Signature)	Received b	Received by: (Signature)	~		Date/Time	Time	Relinquished by: (Signature)	Signature)	Received by: (Signature)	ture)	Date/Time
Mohr	A.	No sold in	3	Seley	7	1381	122 1	\$03				
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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4597-1 SDG Number: 03D2024180

Login Number: 4597 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	

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4597-1 SDG Number: 03D2024180

List Source: Eurofins Midland

Login Number: 4597 List Number: 2 List Creation: 05/02/23 10:54 AM Creator: Rodriguez, Leticia

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Midland, Texas 79701

Generated 5/4/2023 4:04:37 PM

JOB DESCRIPTION

Treasure Island Fed 001H SDG NUMBER 03D2024180

JOB NUMBER

890-4598-1

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 5/4/2023 4:04:37 PM

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 Laboratory Job ID: 890-4598-1 Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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Definitions/Glossary

Job ID: 890-4598-1 Client: Ensolum Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description** F1

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

HPLC/IC

Qualifier **Qualifier Description**

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

Glossary

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

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

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Method Detection Limit MDL 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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Treasure Island Fed 001H

Job ID: 890-4598-1

SDG: 03D2024180

Job ID: 890-4598-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4598-1

Receipt

The samples were received on 4/28/2023 3:09 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 1.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4598-1), SS02 (890-4598-2), SS03 (890-4598-3) and SS04 (890-4598-4).

GC VOA

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

GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (LCS 880-52400/2-A) and (LCSD 880-52400/3-A). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (890-4592-A-5-D MS) and (890-4592-A-5-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: SS02 (890-4598-2), SS03 (890-4598-3) and SS04 (890-4598-4). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52400 and analytical batch 880-52354 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.

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-52486 and analytical batch 880-52596 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. The associated samples are: SS01 (890-4598-1), SS02 (890-4598-2), SS03 (890-4598-3), SS04 (890-4598-4), (890-4597-A-1-F), (890-4597-A-1-G MS) and (890-4597-A-1-H MSD).

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

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS01

Date Collected: 04/28/23 11:55

Lab Sample ID: 890-4598-1

Matrix: Solid

Date Collected: 04/28/23 11:55
Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		05/02/23 09:11	05/03/23 17:54	
Toluene	<0.00198	U	0.00198	mg/Kg		05/02/23 09:11	05/03/23 17:54	
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		05/02/23 09:11	05/03/23 17:54	
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		05/02/23 09:11	05/03/23 17:54	
o-Xylene	<0.00198	U	0.00198	mg/Kg		05/02/23 09:11	05/03/23 17:54	
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		05/02/23 09:11	05/03/23 17:54	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	90		70 - 130			05/02/23 09:11	05/03/23 17:54	
1,4-Difluorobenzene (Surr)	108		70 - 130			05/02/23 09:11	05/03/23 17:54	
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			05/04/23 12:48	
	•	ics (DRO) (Qualifier	GC)	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Method: SW846 8015 NM - Diese Analyte Total TPH	•	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/03/23 09:18	
Analyte	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared		
Analyte Total TPH Method: SW846 8015B NM - Die	Result <49.8	Qualifier U	RL 49.8		<u>D</u>	Prepared Prepared		Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die: Analyte Gasoline Range Organics	Result <49.8	Qualifier U nics (DRO) Qualifier	RL 49.8	mg/Kg			05/03/23 09:18	
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.8 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC)	mg/Kg		Prepared	05/03/23 09:18 Analyzed	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 sel Range Orga Result <49.8	Qualifier U nics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8	mg/Kg Unit mg/Kg		Prepared 05/02/23 11:49	05/03/23 09:18 Analyzed 05/02/23 17:27	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 sel Range Orga Result <49.8 <49.8	Qualifier U nics (DRO) Qualifier U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 05/02/23 11:49 05/02/23 11:49	05/03/23 09:18 Analyzed 05/02/23 17:27 05/02/23 17:27	Dil Fa
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) Total TPH	Result <49.8	Qualifier U nics (DRO) Qualifier U U U	RL 49.8 (GC) RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49	05/03/23 09:18 Analyzed 05/02/23 17:27 05/02/23 17:27	Dil Fa
Analyte Total TPH	Result <49.8	Qualifier U nics (DRO) Qualifier U U U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49	05/03/23 09:18 Analyzed 05/02/23 17:27 05/02/23 17:27 05/02/23 17:27	Dil Fa
Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.8	Qualifier U nics (DRO) Qualifier U U U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49 Prepared	05/03/23 09:18 Analyzed 05/02/23 17:27 05/02/23 17:27 05/02/23 17:27 05/02/23 17:27 Analyzed	Dil Fa
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) Total TPH Surrogate	Result <49.8	Qualifier U nics (DRO) Qualifier U U U Qualifier	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg		Prepared 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49 05/02/23 11:49 Prepared 05/02/23 11:49	05/03/23 09:18 Analyzed 05/02/23 17:27 05/02/23 17:27 05/02/23 17:27 Analyzed 05/02/23 17:27	Dil Fa

Client Sample ID: SS02 Lab Sample ID: 890-4598-2

73.8

5.00

mg/Kg

Date Collected: 04/28/23 12:00 Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		05/02/23 09:11	05/03/23 18:14	1
Toluene	<0.00201	U	0.00201	mg/Kg		05/02/23 09:11	05/03/23 18:14	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		05/02/23 09:11	05/03/23 18:14	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		05/02/23 09:11	05/03/23 18:14	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		05/02/23 09:11	05/03/23 18:14	1
Xylenes, Total	< 0.00402	U	0.00402	mg/Kg		05/02/23 09:11	05/03/23 18:14	1

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05/04/23 04:44

Matrix: Solid

Job ID: 890-4598-1

Client: Ensolum Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS02 Lab Sample ID: 890-4598-2 Date Collected: 04/28/23 12:00 Matrix: Solid

Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Surrogate	%Recovery	Qualifier	Limits	Prepared Ana	lyzed Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	05/02/23 09:11 05/03/2	23 18:14 1
1,4-Difluorobenzene (Surr)	121		70 - 130	05/02/23 09:11 05/03/2	23 18:14 1
_					

Method: TAL SOP Total BTEX - To	otal BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			05/04/23 12:48	1

Method: SW846 8015 NM - Diesel	Range Organics (DRO) (GC	;)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			05/03/23 09:18	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 17:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 17:48	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 17:48	1
Total TPH	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83	-	70 - 130			05/02/23 11:49	05/02/23 17:48	1

o-Terpnenyi	64 51-	70 - 130			05/02/23 11:49	05/02/23 17:48	7
Method: EPA 300.0 - Anions, Ion Ch	romatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	76.9	5.01	mg/Kg			05/04/23 04:49	1

Chloride 76.9 mg/Kg Client Sample ID: SS03 Lab Sample ID: 890-4598-3

Date Collected: 04/28/23 12:05 Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		05/02/23 09:11	05/03/23 18:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			05/02/23 09:11	05/03/23 18:35	1
1,4-Difluorobenzene (Surr)	117		70 - 130			05/02/23 09:11	05/03/23 18:35	1
- Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			05/04/23 12:48	1

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Matrix: Solid

Matrix: Solid

Client: Ensolum Job ID: 890-4598-1

Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS03 Lab Sample ID: 890-4598-3 Date Collected: 04/28/23 12:05 Date Received: 04/28/23 15:09

59.0

Sample Depth: 0.5'

Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/03/23 09:18	1
- Method: SW846 8015B NM - Dies	el 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		05/02/23 11:49	05/02/23 18:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 18:10	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 18:10	1
Total TPH	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 18:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			05/02/23 11:49	05/02/23 18:10	1
o-Terphenyl	54	S1-	70 - 130			05/02/23 11:49	05/02/23 18:10	1
- Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	• .	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: SS04 Lab Sample ID: 890-4598-4 **Matrix: Solid**

5.02

mg/Kg

Date Collected: 04/28/23 12:10 Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
Toluene	<0.00199	U	0.00199	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		05/02/23 09:11	05/03/23 18:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130			05/02/23 09:11	05/03/23 18:55	1
1,4-Difluorobenzene (Surr)	116		70 - 130			05/02/23 09:11	05/03/23 18:55	1
Method: TAL SOP Total BTEX - T Analyte	Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	
Method: TAL SOP Total BTEX - T Analyte Total BTEX	Result <0.00398	Qualifier U	0.00398	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 05/04/23 12:48	
Method: TAL SOP Total BTEX - T Analyte	Result <0.00398 el Range Organ	Qualifier U	0.00398		D	Prepared Prepared		Dil Fac
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese	Result <0.00398 el Range Organ	Qualifier U ics (DRO) (Qualifier	0.00398 GC)	mg/Kg			05/04/23 12:48	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte	Result <0.00398 Range Organ Result <50.0	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0	mg/Kg			05/04/23 12:48 Analyzed	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH	Result <0.00398 Range Organ Result <50.0 Sel Range Organ	Qualifier U ics (DRO) (Qualifier U	0.00398 GC) RL 50.0	mg/Kg			05/04/23 12:48 Analyzed	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics	Result <0.00398 Range Organ Result <50.0 Sel Range Organ	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier	0.00398 GC) RL 50.0 (GC)	mg/Kg Unit mg/Kg	<u>D</u>	Prepared	05/04/23 12:48 Analyzed 05/03/23 09:18	Dil Fac
Method: TAL SOP Total BTEX - T Analyte Total BTEX Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Diese Analyte	Result <0.00398 Pl Range Organ Result <50.0 Sel Range Orga Result Result Result Result Result Result	Qualifier U ics (DRO) (Qualifier U nics (DRO) Qualifier U	0.00398 GC) RL 50.0 (GC) RL	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	05/04/23 12:48 Analyzed 05/03/23 09:18 Analyzed	Dil Fac

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05/04/23 04:54

Client Sample Results

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Client Sample ID: SS04

Lab Sample ID: 890-4598-4

Matrix: Solid

Date Collected: 04/28/23 12:10 Date Received: 04/28/23 15:09

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		05/02/23 11:49	05/02/23 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130			05/02/23 11:49	05/02/23 18:31	1
o-Terphenyl	58	S1-	70 - 130			05/02/23 11:49	05/02/23 18:31	1
Method: EPA 300.0 - Anions	, Ion Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	73.6		4.97	mg/Kg			05/04/23 05:11	1

a

10

11

13

14

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Job ID: 890-4598-1 Client: Ensolum Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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)	
890-4590-A-11-F MS	Matrix Spike	105	105	
890-4590-A-11-G MSD	Matrix Spike Duplicate	99	101	
890-4598-1	SS01	90	108	
890-4598-2	SS02	105	121	
890-4598-3	SS03	104	117	
890-4598-4	SS04	96	116	
LCS 880-52364/1-A	Lab Control Sample	93	95	
LCSD 880-52364/2-A	Lab Control Sample Dup	103	110	
MB 880-52364/5-A	Method Blank	89	125	
Surrogate Legend				

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4592-A-5-D MS	Matrix Spike	84	62 S1-	
890-4592-A-5-E MSD	Matrix Spike Duplicate	85	62 S1-	
890-4598-1	SS01	93	73	
890-4598-2	SS02	83	64 S1-	
890-4598-3	SS03	72	54 S1-	
890-4598-4	SS04	76	58 S1-	
LCS 880-52400/2-A	Lab Control Sample	82	63 S1-	
LCSD 880-52400/3-A	Lab Control Sample Dup	87	66 S1-	
MB 880-52400/1-A	Method Blank	112	92	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

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1

QC Sample Results

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-52364/5-A

Matrix: Solid Analysis Batch: 52442 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 52364

		MB	MR						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
	Toluene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
	Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		05/02/23 09:11	05/03/23 11:26	1
ı									

MB MB

MD MD

Surrogate	%Recovery G	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89	70 - 130	05/02/23 09:11	05/03/23 11:26	1
1,4-Difluorobenzene (Surr)	125	70 - 130	05/02/23 09:11	05/03/23 11:26	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 52364

Prep Type: Total/NA

8

11

35

35

35

35

Lab Sample ID: LCS 880-52364/1-A Client Sample ID
Matrix: Solid
Analysis Batch: 52442

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09521 mg/Kg 95 70 - 130 Toluene 0.100 0.09767 mg/Kg 98 70 - 130 77 Ethylbenzene 0.100 0.07738 mg/Kg 70 - 130 0.200 70 - 130 m-Xylene & p-Xylene 0.1738 mg/Kg 87 0.100 o-Xylene 0.08612 mg/Kg 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

70 - 130

70 - 130

106

83

95

96

Matrix: Solid

Analyte

Benzene

Toluene

Ethylbenzene

m-Xylene & p-Xylene

Analysis Batch: 52442

Lab Sample ID: LCSD 880-52364/2-A

Prep Batch: 52364 LCSD LCSD RPD Spike %Rec Added Result Qualifier Unit %Rec Limits RPD Limit 0.100 0.1071 mg/Kg 107 70 - 130 12 35

mg/Kg

mg/Kg

mg/Kg

mg/Kg

 co-Xylene
 0.100

 LCSD
 LCSD

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 103
 70 - 130

110

Lab Sample ID: 890-4590-A-11-F MS

Matrix: Solid

Analysis Batch: 52442

1,4-Difluorobenzene (Surr)

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

Prep Batch: 52364

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0998	0.1146		mg/Kg		115	70 - 130	
Toluene	<0.00202	U	0.0998	0.1113		mg/Kg		111	70 - 130	

0.100

0.100

0.200

70 - 130

0.1056

0.08302

0.1909

0.09567

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Prep Batch: 52364

QC Sample Results

Job ID: 890-4598-1 Client: Ensolum Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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

Lab Sample ID: 890-4590-A-11-F MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid Analysis Batch: 52442

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00202 U 0.0998 0.09152 92 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00403 0.200 0.2071 mg/Kg 104 70 - 130 <0.00202 U 0.0998 0.1003 70 - 130 o-Xylene mg/Kg 100

MS MS Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 105

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

Lab Sample ID: 890-4590-A-11-G MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid Analysis Batch: 52442

Prep Batch: 52364 Sample Sample Spike MSD MSD RPD RPD Limit Result Qualifier babbA Result Qualifier %Rec Limits Unit D

Analyte Benzene <0.00202 U 0.0990 0.1085 mg/Kg 110 70 - 130 5 35 Toluene <0.00202 0.0990 0.1052 mg/Kg 106 70 - 130 6 35 <0.00202 0.0990 0.08578 87 70 - 130 35 Ethylbenzene U mg/Kg 6 m-Xylene & p-Xylene <0.00403 U 0.198 0.2005 mg/Kg 101 70 - 130 3 35 70 - 130 0.0990 0.09889 o-Xylene <0.00202 U mg/Kg 100 35

MSD MSD Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 99 70 - 130 1,4-Difluorobenzene (Surr) 101 70 - 130

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

Lab Sample ID: MB 880-52400/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 52354 Prep Batch: 52400 мв мв

Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed <50.0 U 50.0 05/02/23 08:49 05/02/23 09:01 Gasoline Range Organics mg/Kg (GRO)-C6-C10 05/02/23 09:01 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 05/02/23 08:49 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 05/02/23 08:49 05/02/23 09:01 mg/Kg Total TPH <50.0 U 50.0 05/02/23 08:49 05/02/23 09:01 mg/Kg

MB MB

Qualifier Surrogate %Recovery Limits Prepared Analyzed Dil Fac 112 70 - 130 05/02/23 08:49 05/02/23 09:01 1-Chlorooctane o-Terphenyl 92 70 - 130 05/02/23 08:49 05/02/23 09:01

Lab Sample ID: LCS 880-52400/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 52354 Prep Batch: 52400

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit %Rec Limits 1000 1037 104 70 - 130 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

Eurofins Carlsbad

Prep Type: Total/NA

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

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

Lab Sample ID: LCS 880-52400/2-A

Matrix: Solid

Analysis Batch: 52354

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 52400

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits D 1000 939 7 94 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 82
 70 - 130

 o-Terphenyl
 63
 \$1 70 - 130

Lab Sample ID: LCSD 880-52400/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 52354
Prep Batch: 52400

LCSD LCSD %Rec RPD Spike Result Qualifier Limit Analyte Added Unit D %Rec Limits RPD 1000 1024 70 - 130 Gasoline Range Organics mg/Kg 102 20 (GRO)-C6-C10

986.2

mg/Kg

99

70 - 130

5

Prep Type: Total/NA

20

1000

C10-C28)

Diesel Range Organics (Over

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 87
 70 - 130

 o-Terphenyl
 66
 \$1 70 - 130

Lab Sample ID: 890-4592-A-5-D MS Client Sample ID: Matrix Spike

Lab Sample ID: 890-4592-A-5-D MS Matrix: Solid

Analysis Batch: 52354 Prep Batch: 52400

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 1281 mg/Kg 124 70 - 130 (GRO)-C6-C10 <49.9 U F1 998 580.6 F1 54 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 84
 70 - 130

 o-Terphenyl
 62
 S1 70 - 130

Lab Sample ID: 890-4592-A-5-E MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 52354 Prep Batch: 52400

Sample Sample Spike MSD MSD RPD Analyte Result Qualifier RPD Limit Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1283 mg/Kg 124 70 - 130 20

	IVISD	MISD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	85		70 - 130
o-Terphenyl	62	S1-	70 - 130

Med Med

Eurofins Carlsbad

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-52486/1-A

Matrix: Solid

Analysis Batch: 52596

MB MB

 Analyte
 Result Chloride
 Qualifier Qualifier
 RL VINITY
 Unit May Prepared Prepared
 Prepared Analyzed Prepared Object VINITY
 Dil Fac VINITY

 Chloride
 <5.00</td>
 U
 5.00
 mg/Kg
 05/04/23 04:06
 1

Lab Sample ID: LCS 880-52486/2-A

Matrix: Solid

Analysis Batch: 52596

Spike LCS LCS %Rec Added %Rec Analyte Result Qualifier Unit D Limits Chloride 250 235.8 mg/Kg 94 90 - 110

Lab Sample ID: LCSD 880-52486/3-A

Matrix: Solid

Analysis Batch: 52596

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 236.8 mg/Kg 90 - 110

Lab Sample ID: 890-4597-A-1-G MS

Matrix: Solid

Analysis Batch: 52596

Spike MS MS Sample Sample %Rec Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 72.7 F1 252 294.2 F1 90 - 110 mg/Kg

Lab Sample ID: 890-4597-A-1-H MSD

Matrix: Solid

Analysis Batch: 52596

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 72.7 F1 252 294.7 F1 mg/Kg 88 90 - 110 20

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QC Association Summary

Client: Ensolum Job ID: 890-4598-1
Project/Site: Treasure Island Fed 001H SDG: 03D2024180

GC VOA

Prep Batch: 52364

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Total/NA	Solid	5035	
890-4598-2	SS02	Total/NA	Solid	5035	
890-4598-3	SS03	Total/NA	Solid	5035	
890-4598-4	SS04	Total/NA	Solid	5035	
MB 880-52364/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-52364/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-52364/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4590-A-11-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4590-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 52442

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Total/NA	Solid	8021B	52364
890-4598-2	SS02	Total/NA	Solid	8021B	52364
890-4598-3	SS03	Total/NA	Solid	8021B	52364
890-4598-4	SS04	Total/NA	Solid	8021B	52364
MB 880-52364/5-A	Method Blank	Total/NA	Solid	8021B	52364
LCS 880-52364/1-A	Lab Control Sample	Total/NA	Solid	8021B	52364
LCSD 880-52364/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	52364
890-4590-A-11-F MS	Matrix Spike	Total/NA	Solid	8021B	52364
890-4590-A-11-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	52364

Analysis Batch: 52610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Total/NA	Solid	Total BTEX	
890-4598-2	SS02	Total/NA	Solid	Total BTEX	
890-4598-3	SS03	Total/NA	Solid	Total BTEX	
890-4598-4	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 52354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Total/NA	Solid	8015B NM	52400
890-4598-2	SS02	Total/NA	Solid	8015B NM	52400
890-4598-3	SS03	Total/NA	Solid	8015B NM	52400
890-4598-4	SS04	Total/NA	Solid	8015B NM	52400
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015B NM	52400
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	52400
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	52400
890-4592-A-5-D MS	Matrix Spike	Total/NA	Solid	8015B NM	52400
890-4592-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	52400

Prep Batch: 52400

Lab Sample ID 890-4598-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method 8015NM Prep	Prep Batch
890-4598-2	SS02	Total/NA	Solid	8015NM Prep	
890-4598-3	SS03	Total/NA	Solid	8015NM Prep	
890-4598-4	SS04	Total/NA	Solid	8015NM Prep	
MB 880-52400/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-52400/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: Ensolum
Project/Site: Treasure Island Fed 001H
SDG: 03D2024180

GC Semi VOA (Continued)

Prep Batch: 52400 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-52400/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4592-A-5-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4592-A-5-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 52467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Ba	atch
890-4598-1	SS01	Total/NA	Solid	8015 NM	
890-4598-2	SS02	Total/NA	Solid	8015 NM	
890-4598-3	SS03	Total/NA	Solid	8015 NM	
890-4598-4	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 52486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Soluble	Solid	DI Leach	_
890-4598-2	SS02	Soluble	Solid	DI Leach	
890-4598-3	SS03	Soluble	Solid	DI Leach	
890-4598-4	SS04	Soluble	Solid	DI Leach	
MB 880-52486/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-52486/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-52486/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4597-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4597-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 52596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4598-1	SS01	Soluble	Solid	300.0	52486
890-4598-2	SS02	Soluble	Solid	300.0	52486
890-4598-3	SS03	Soluble	Solid	300.0	52486
890-4598-4	SS04	Soluble	Solid	300.0	52486
MB 880-52486/1-A	Method Blank	Soluble	Solid	300.0	52486
LCS 880-52486/2-A	Lab Control Sample	Soluble	Solid	300.0	52486
LCSD 880-52486/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	52486
890-4597-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	52486
890-4597-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	52486

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum

Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Client Sample ID: SS01 Lab Sample ID: 890-4598-1

Date Collected: 04/28/23 11:55

Date Received: 04/28/23 15:09

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			5.05 g	5 mL	52364	05/02/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52442	05/03/23 17:54	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52610	05/04/23 12:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52467	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	52400	05/02/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 17:27	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	52486	05/03/23 10:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52596	05/04/23 04:44	SMC	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4598-2

Date Collected: 04/28/23 12:00 Matrix: Solid
Date Received: 04/28/23 15:09

	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	52364	05/02/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52442	05/03/23 18:14	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			52610	05/04/23 12:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52467	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52400	05/02/23 11:49	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 17:48	SM	EET MIC
Soluble	Leach	DI Leach			4.99 g	50 mL	52486	05/03/23 10:38	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	52596	05/04/23 04:49	SMC	EET MII

Client Sample ID: SS03

Date Collected: 04/28/23 12:05

Lab Sample ID: 890-4598-3

Matrix: Solid

Date Received: 04/28/23 15:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	52364	05/02/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52442	05/03/23 18:35	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			52610	05/04/23 12:48	AJ	EET MID
Total/NA	Analysis	8015 NM		1			52467	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	52400	05/02/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 18:10	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	52486	05/03/23 10:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52596	05/04/23 04:54	SMC	EET MID

Client Sample ID: SS04 Lab Sample ID: 890-4598-4

Date Collected: 04/28/23 12:10 Date Received: 04/28/23 15:09

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	52364	05/02/23 09:11	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	52442	05/03/23 18:55	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			52610	05/04/23 12:48	AJ	EET MID

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Matrix: Solid

Page 17 of 24

Lab Chronicle

Client: Ensolum
Project/Site: Treasure Island Fed 001H
SDG: 03D2024180

Client Sample ID: SS04 Lab Sample ID: 890-4598-4

Date Collected: 04/28/23 12:10
Date Received: 04/28/23 15:09
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			52467	05/03/23 09:18	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	52400	05/02/23 11:49	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	52354	05/02/23 18:31	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	52486	05/03/23 10:38	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	52596	05/04/23 05:11	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: 890-4598-1 Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

Laboratory: Eurofins Midland

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

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

Method Summary

Client: Ensolum Job ID: 890-4598-1 Project/Site: Treasure Island Fed 001H

SDG: 03D2024180

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

Sample Summary

Collected

04/28/23 11:55

04/28/23 12:00

04/28/23 12:05

04/28/23 12:10

Received

04/28/23 15:09

04/28/23 15:09

04/28/23 15:09

04/28/23 15:09

0.5'

0.5'

Matrix

Solid

Solid

Solid

Solid

Client: Ensolum

Lab Sample ID

890-4598-1

890-4598-2

890-4598-3

890-4598-4

Project/Site: Treasure Island Fed 001H

SS01

SS02

SS03

SS04

Client Sample ID

Job ID: 890-4598-1

SDG: 03D2024180

Depth	
0.5'	
0.5'	

Chain of Custody

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

Environment Testing Xenco

🐫 eurofins

Work Order No:

Size Natural Parks Hay Address: Size Natural Parks Hay Address: Address: Carls fur Address: Carls fur Address: Carls fur		-				1		www.xenco.com	in age	
State Program USF	Project Manager:	1720 & (SPEC)		Bill to: (if different)		Kale Son	SAVI	Work Order Cor	mments	T
1	Company Name:	Ensolum LLC		Company Name:		Ensolum LL	Prograi	UST/PST PRP	RRC	
Separation Conference Con			des Hwin	Address:			State o	f Project:		
137-557 - 8943 Featl Pagl Cea ® 0-69 Page 1. Life P Mainten Tree Survey Tree Survey Page 1. Life P Mainten Tree Survey Tree Survey Page 1. Life P Mainten Tree Survey T	re ZIP:	-	220	City, State ZIP:			Reporti		TRRP	_
Tree-water Tre		432-557-8895	Email:	hafeen	y ensolver	1. com	Deliver	ED0		
The RECEIPT Team Blank Team of the first in the devicement by shipped The first in the first in the devicement by shipped The first in the first in the devicement by shipped The first in		Treasure Fland Febru		Around			ANALYSIS REQUEST		Preservative Code:	
12 12 12 12 12 12 12 12		0302021180	Rout	Rush	Pres. Code					er: H ₂ 0
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H-30 a, september Temp Banks Temp Bank		Koon, Hayes	TAT starts the	day received by						¥.
H ₃ PO ₄ : NaHSO Na ₂ S ₂ C Zn Acet NaOH+ Se Ag SiO ₂ Na Sr TI Sn Hg: 1631 / 245.1 / 7470	PO #:	7	the lab, if rece	eived by 4:30pm	5					r Z
Na 25 3C Na 25 3C Zn Acet NaOH+ Se Ag SiO ₂ Na Sr TI Sn Hg: 1631 / 245.1 / 7470	SAMPLE RECEIPT	-		Ce No	eters				H₃PO ¿: HP	
Na 25 5C Zn Acet NaOH+ NaOH+ Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	Samples Received Intact:		meter ID:	Tronder	mei				NaHSO .: NABIS	
Sa NaOH+ NaOH+ NaOH+ Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	Cooler Custody Seals:	(A)	on Factor:	6.0-	БЧ				Na 2 S 2 O 3: Na SO 3	
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	Sample Custody Seals:	No N/A	ature Reading:	(0)			A COLOR OF THE PROPERTY OF THE		Zn Acetate+NaOH: Zn	
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631/245.1/7470	Total Containers:	Correcte	ed Temperature:	0.1	-	HC	890-4598 Chain of Custody		NaOH+Ascorbic Acid: SAF	U
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	Sample Identifica	Matrix	-		# of Cont	178 17			Sample Comment	10
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	5501	 		5,	X -					
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	20%			i Sighina	_	1 1 1				
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Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470	4955	>	1210	r V	À	№ №				
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470 eceived by: (Signature)										
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470 eceived by: (Signature)										
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470			Uti							
Se Ag SiO ₂ Na Sr Tl Sn Hg: 1631 / 245.1 / 7470			1							
Se Ag SiO ₂ Na Sr TI Sn Hg: 1631 / 245.1 / 7470 eceived by: (Signature)										
Se Ag SiO ₂ Na Sr TI Sn Hg: 1631/245.1/7470 eceived by: (Signature)							The section of the se			
eceived by: (Signature)	Total 200.7 / 6010 Circle Method(s) and	200.8 / 6020: d Metal(s) to be analyzed	8RCRA 13PP TCLP/SI	Texas 11 6010 : 8RC	N Sb As B	a Be B Cd Ca Cr Sa Be Cd Cr Co C	r Co Cu Fe Pb Mg Mn Mc Cu Pb Mn Mo Ni Se Ag Tl	Se Ag SiO ₂ Na Sr ⁷ Hg: 1631 / 245.1 /	TI Sn U V	
eceived by: (Signature)	Notice: Signature of this documer of service. Eurofins Xenco will be of Eurofins Xenco. A minimum ch	nt and relinquishment of samples constitut lable only for the cost of samples and shall narge of \$85.00 will be applied to each proj	es a valid purchase ord Il not assume any respon lect and a charge of \$5	er from client company nsibility for any losses o 'or each sample submit	to Eurofins Xencc r expenses incurra ed to Eurofins Xe	its affiliates and subcontra ed by the client if such losse: nco, but not analyzed. Thes	actors. It assigns standard terms and condit is are due to circumstances beyond the con ee terms will be enforced unless previously in	ions trol regotiated.		
Jum Birar Alastiaf 4/28/23 1589	Relinquished by: (Sig	gnature) Receive	ed by: (Signature	(6	Date/	Time Relir	nquished by: (Signature)	Received by: (Signature)		
9	- James	Aira	La X	tid		(5)				
· ·	3	,		•		4				
	S					9				

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4598-1

 SDG Number: 03D2024180

Login Number: 4598 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: 890-4598-1

SDG Number: 03D2024180

List Source: Eurofine Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 05/02/23 10:54 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.	False	
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 E

NMOCD Notifications

From: <u>Hadlie Green</u>

To: OCD.Enviro@state.nm.us

Cc: Kalei Jennings

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

Date: Thursday, April 20, 2023 3:33:28 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

All,

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,



Hadlie Green

Project Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC

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APPENDIX F

FinalC-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

Responsible Party

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	NAPP2310337528
District RP	
Facility ID	fAPP2129347708
Application ID	

Release Notification

Responsible Party

OGRID

Responsible	Party	COG Opera	iting, LLC	C	OGRID	229137	
Contact Nam	ne	Jacob La	ird	C	Contact Telephone	(575) 703-5482	
Contact ema	il	Jacon.Laird@	©ConocoPhillips	s.com I	ncident # (assigned by	OCD) NAPP2310337528	
Contact mail	ing address	600 West III	inois Avenue, I	Midland	, Texas 79701		
			т	cp i	6		
			Location	of Rel	ease Source		
Latitude '	32.196	51		Lo	ongitude -103	3.6383	
			(NAD 83 in dec		es to 5 decimal places)		
Site Name		Treasure Isla	and Federal 0	01H Si	ite Type T a	ank Battery	
Date Release	Discovered	March 31, 2	2023	A	PI# (if applicable) 3(0-025-41776	
	1						
Unit Letter	Section	Township	Range		County		
Р	23	24S	32E		Lea		
Surface Owne	r: State	■ Federal □ Tr	ihal Π Private (λ	Iame:			
Surface 6 wife	1. Blace		iour 🗀 i iivate (i	<i></i>		,	
			Nature and	Volur	me of Release		
	Material	(s) Released (Select all	that apply and attach	calculations	s or specific justification f	for the volumes provided below)	
Crude Oi		Volume Release	1 (1 1 1)	.01		Recovered (bbls) 0	
Produced	Water	Volume Release	d (bbls)		Volume	Recovered (bbls)	
		Is the concentrate produced water >	ion of dissolved cl >10,000 mg/l?	nloride in	the Yes	No	
Condensa	ate	Volume Release			Volume 1	Recovered (bbls)	

Volume Recovered (bbls)

Volume Recovered (Mcf)

Volume/Weight Recovered (provide units)

Cause of Release

Natural Gas

Other (describe)

The release was caused by a oil dump malfunction resulting in a flare fire on the pad. No fluid was recovered due to the fire burning off any standing fluid.

Volume Released (bbls)

Volume Released (Mcf)

Volume/Weight Released (provide units)

Received by OCD: 5/25/2023 11:23:57 AM
FORM C-14-1 State of New Mexico
Page 2 Oil Conservation Division

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Incident ID	NAPP2310337528
District RP	
Facility ID	fAPP2129347708
Application ID	

Was this a major	If YES, for what reason(s) does the response	nsible party consider this a major release?
release as defined by	The release involved a fire.	
19.15.29.7(A) NMAC?		
■ Yes □ No		
If YES, was immediate no	otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?
Immediate notice wa	as given by Jacob Laird via e-ma	ail March 31, 2023 at 7:33 pm to ocd.enviro@
state.nm.us and blm	n_nm_cfo_spill@blm.gov.	
	Initial R	esnonse
	Initial N	esponse
The responsible p	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	**	
•	s been secured to protect human health and	
Released materials ha	ive been contained via the use of berms or	dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed ar	nd managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence	remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedial	efforts have been successfully completed or if the release occurred
within a lined containmer	it area (see 19.15.29.11(A)(5)(a) NMAC),	please attach all information needed for closure evaluation.
		best of my knowledge and understand that pursuant to OCD rules and
		ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a three	eat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of	responsibility for compliance with any other federal, state, or local laws
	ny N. Esparza	Title: Environmental Technician
Timed Name	9-1000	
Signature:	tan Spars	Date: 4/13/2023 Telephone: (432) 221-0398
email: Brittany.Espar	za@ConocoPhillips.com	Telephone: (432) 221-0398
OCD Only		
Received by: Joce	lyn Harimon	Date:04/13/2023

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 207448

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	207448
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimo	None	4/13/2023

	Page 74 of	77
Incident ID	NAPP2310337528	
District RP		
Facility ID	fAPP2129347708	
Application ID		

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>55</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 ver contamination 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.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data 	ls.
☐ 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 	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs	
Photographs including date and GIS information	
☐ Topographic/Aerial maps	
☐ Laboratory data including chain of custody	

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

Received by OCD: 5/25/2023 11:23:57 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2310337528
District RP	
Facility ID	fAPP2129347708
Application ID	

regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by failed to adequately investigate and remediate contamination that post	e to the best of my knowledge and understand that pursuant to OCD rules and ase notifications and perform corrective actions for releases which may endanger by the OCD does not relieve the operator of liability should their operations have se a threat to groundwater, surface water, human health or the environment. In rator of responsibility for compliance with any other federal, state, or local laws
Printed Name: _Jacob Laird	Title: _Environmental Engineer
Signature: <u>Jacob Laird</u>	Date:5/24/2023
email: _Jacob.Laird@Conocophillips.com	Telephone:
OCD Only	
Received by:	Date:05/25/2023

of New Mexico

Incident ID	NAPP2310337528
District RP	
Facility ID	fAPP2129347708
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.					
A scaled site and samp	oling diagram as described in 19.15.29.	.11 NMAC			
	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
□ Laboratory analyses of the control of th	f final sampling (Note: appropriate OD	OC District office m	nust 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 19.15.29.1 Printed Name: _Jacob Laird	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 federal, state, or local laws and/or regul	in release notificat of a C-141 report by emediate contaminate a C-141 report do lations. The responditions that exist OCD when reclam Title: _ Environ Date:5/24/20	ly knowledge and understand that pursuant to OCD rules ions and perform corrective actions for releases which is the OCD does not relieve the operator of liability attemption that pose a threat to groundwater, surface water, es not relieve the operator of responsibility for asible party acknowledges they must substantially ed prior to the release or their final land use in attemption and re-vegetation are complete. Immental Engineer		
OCD Only					
Received by:Jocelyn	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	Date: _	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 220660

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	220660
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	8/11/2023