



May 2, 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

Wild Cobra 1 State 002H

Incident Number NAPP2233946889

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document site assessment, excavation, and soil sampling activities performed at the Wild Cobra 1 State 002H (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil flare fire at the Site. Based on field observations, field screening activities, and laboratory analytical results from the soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2233946889.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit E, Section 01, Township 19 South, Range 34 East, in Lea County, New Mexico (32.69158°, -103.52103°) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On November 30, 2022, excess pressure to a heater treater from a closed casing valve, resulted in crude oil being sent to the flare. The released crude oil ignited and extinguished itself after reaching the ground. The fire affected the well pad beneath the flare and the adjacent pasture. The released volume was estimated to be approximately 1.6 barrels (bbls) of crude oil. No released fluids were recovered. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on November 30, 2022 and submitted a Release Notification Form C-141 (Form C-141) on December 5, 2022. The release was assigned Incident Number NAPP2233946889.

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, (19.15.29.12) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be between 51 and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (NMOSE) well L-10380, located approximately 0.6 miles south of the Site. The groundwater well has a reported depth to groundwater of 100 feet bgs

Wild Cobra 1 State 002H Closure Request COG Operating, LLC



and a total depth of 153 feet bgs. Ground surface elevation at the groundwater well location is 3,250 feet above mean sea level (amsl), which is approximately 2 feet higher in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a stream, located approximately 1,048 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table 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

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area that was impacted by the release, per 19.15.29.13 D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remedation.

DELINEATION AND EXCAVATION ACTIVITIES

Between January 4, 2023 and March 6, 2023, Ensolum personnel were at the Site to oversee delineation and excavation activities based on visible staining in the release area and information provided on the C-141. Soil samples SS01 through SS04 were collected around the release extent at an approximate depth of 0.5 feet bgs to confirm the lateral extent of the release. Boreholes BH01 through BH05, were advanced via hand auger to a depth of 1-foot bgs within the release extent, to assess for the presence or absence of impacted soil resulting from the fire. Delineation soil samples were collected from each borehole at depths of 0.5 feet and 1-foot bgs. Soil from the delineation samples was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are presented on Figure 2.

Upon completion of delineation activities, visibly stained soil from the fire was excavated to a depth of 0.5 feet bgs. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of the stained soil, 5-point composite soil samples were collected every 200 square feet from the floor of the excavations. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavations, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS07 were collected from the floor of the excavations at a depth of 0.5 feet bgs. The excavation extent and excavation soil sample locations are presented on Figure 2.

Wild Cobra 1 State 002H Closure Request COG Operating, LLC



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

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples SS01 through SS04 and delineation samples collected from boreholes BH01 through BH05 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and successfully defined the lateral extents of the release. Laboratory analytical results for excavation floor samples FS01 through FS05 and FS07 indicated all COC concentrations were compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results for floor sample FS06 indicated the TPH concentration was compliant with the Site Closure Criteria, but exceeded the most stringent Table I Closure Criteria. Additional soil was removed from the area around floor sample FS06 and subsequent floor sample FS06A, collected at 0.75 feet bgs, was compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D.

The excavation area measured approximately 1,195 square feet. A total of 31 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the November 30, 2022, crude oil flare fire. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC were compliant with the most stringent Table I Closure Criteria. Based on the soil sample analytical results, no further remediation was required.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been determined to be between 51 to 100 feet bgs and no other sensitive receptors were identified near the release extent. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2233946889.

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

Sincerely,

Ensolum, LLC

Hadlie Green Project Manager Aimee Cole

Senior Managing Scientist

cc: Jacob Laird, COG Operating, LLC New Mexico State Land Office Wild Cobra 1 State 002H Closure Request COG Operating, LLC



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 Logs

Appendix C Photographic Log

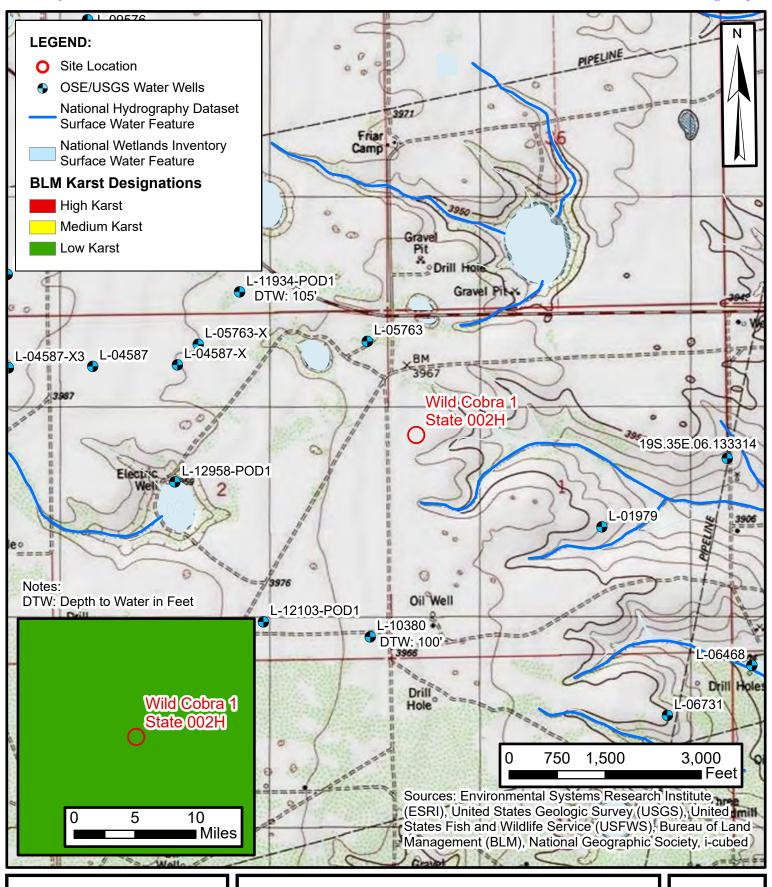
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E Final C-141

Appendix F NMOCD Notifications



FIGURES



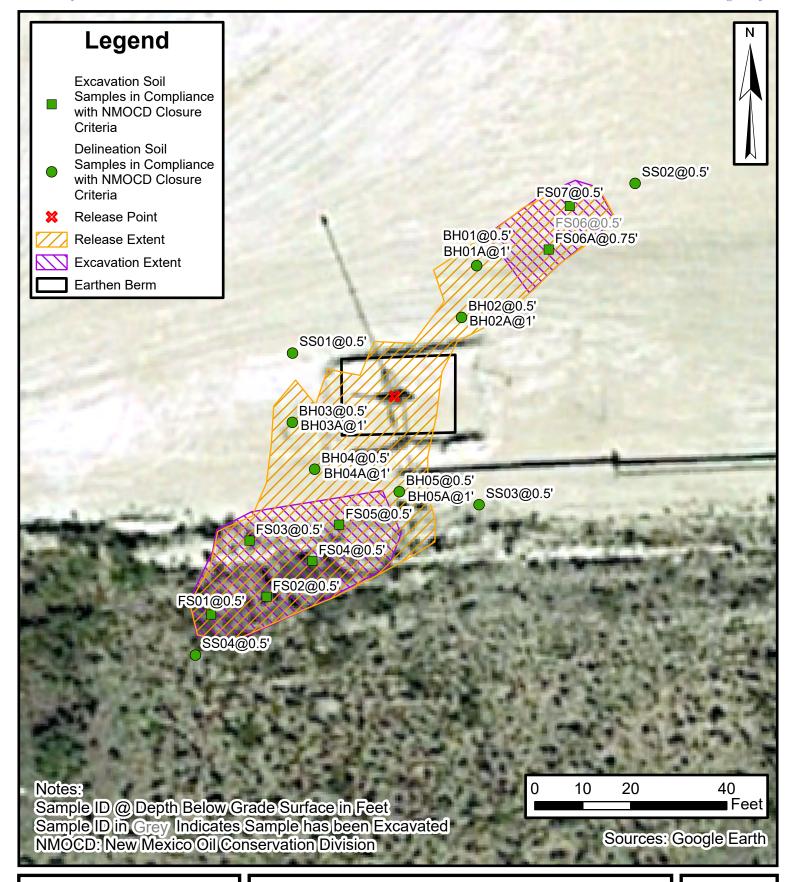


SITE RECEPTOR MAP

COG Operating, LLC Wild Cobra 1 State 002H

Incident Number: NAPP2233946889 Unit E, Sec 01, T19S, R34E Lea County, New Mexico FIGURE

1





Soil Sample Locations

COG Operating, LLC Wild Cobra 1 State 002H

Incident Number: NAPP2233946889 Unit E, Sec 01, T19S, R34E Lea County, New Mexico FIGURE

2



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Wild Cobra 1 State 002H COG Operating, LLC Lea County, New Mexico

Sample Designation	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Clo	osure Criteria (N	IMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
				Deline	ation Soil Sample	es				
SS01	03/06/2023	0.5	<0.00199	0.0241	<49.9	<49.9	<49.9	<49.9	<49.9	158
SS02	03/06/2023	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	155
SS03	03/06/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	45.6
SS04*	03/06/2023	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	53.2
BH01	03/06/2023	0.5	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	39.8
BH01A	03/06/2023	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	67.1
BH02	03/06/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	36.7
BH02A	03/06/2023	1	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	66.6
BH03	03/06/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	50.5
BH03A	03/06/2023	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	119
BH04	03/06/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	147
BH04A	03/06/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	103
BH05	03/06/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	120
BH05A	03/06/2023	1	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	116
				Excav	ation Soil Sample	es				
FS01*	01/04/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	95.9
FS02*	01/04/2023	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	92.8
FS03*	01/04/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	70.8
FS04*	01/04/2023	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	95.6
FS05	01/04/2023	0.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	96.3
FS06	01/04/2023	0.5	<0.00201	<0.00402	<50.0	419	330	419	749	91.4
FS06A	02/20/2023	0.75	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	11.4
FS07	01/04/2023	0.5	<0.00200	0.0121	<49.9	<49.9	<49.9	<49.9	<49.9	66.8

Notes:

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

NE: not established

NMAC: New Mexico Administrative Code

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

Grey text represents samples that have been excavated

^{* -} indicates locations where the reclamation requirement was applied



APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** O64 O16 O4 Sec Tws Rng

X

L 10380

02 19S 34E

638428

3617102*

Driller License: 46

Driller Company:

ABBOTT BROTHERS COMPANY

Driller Name:

ABBOTT, MURREL

Drill Start Date:

03/08/1994

Drill Finish Date:

03/11/1994

Plug Date:

Log File Date:

03/16/1994

PCW Rcv Date:

Source:

Shallow

Pump Type: Casing Size: Pipe Discharge Size:

Estimated Yield:

5.50

Depth Well:

153 feet

Depth Water:

100 feet

Water Bearing Stratifications:

Top Bottom Description

100

153 Other/Unknown

Casing Perforations:

Top Bottom

153 78

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

1/4/23 9:52 AM

POINT OF DIVERSION SUMMARY

Received by OCD: 5/9/2023 9:55:07 AM

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

USGE 32410710330 549/2023 5:35E0964133314

Lea County, New Mexico Latitude 32°41'25", Longitude 103°30'17" NAD27 Land-surface elevation 3,922.00 feet above NGVD29 The depth of the well is 130 feet below land surface.

This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer. This well is completed in the Ogallala Formation (1210GLL) local aquifer.

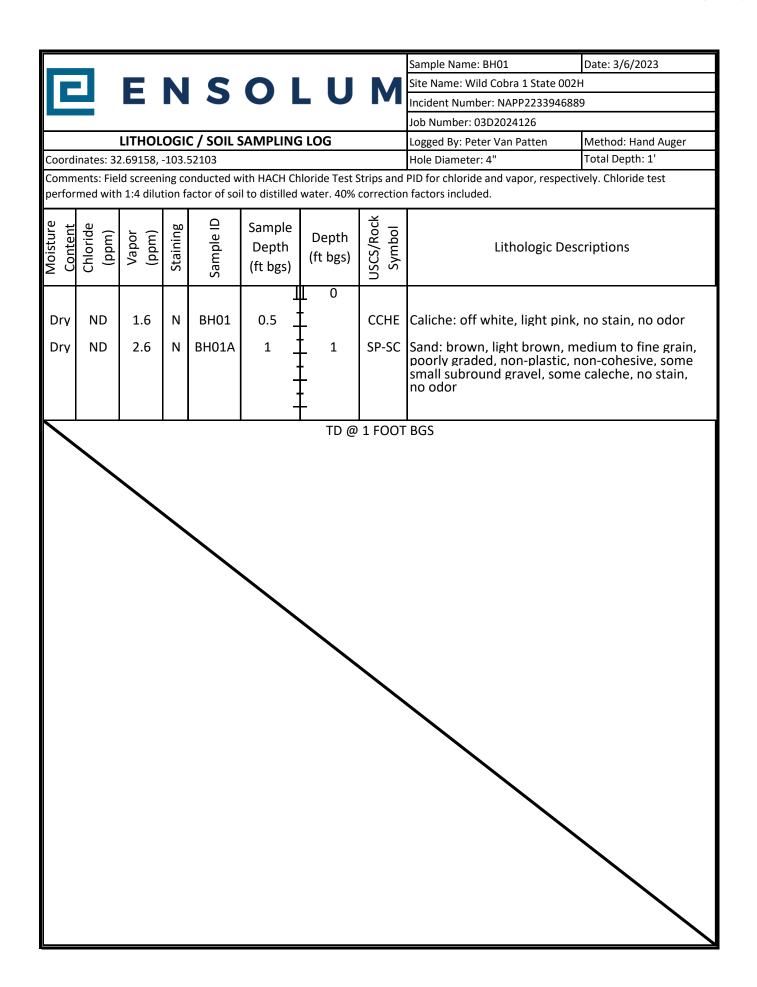
Tab-separated data			
Graph of data			
Reselect period			

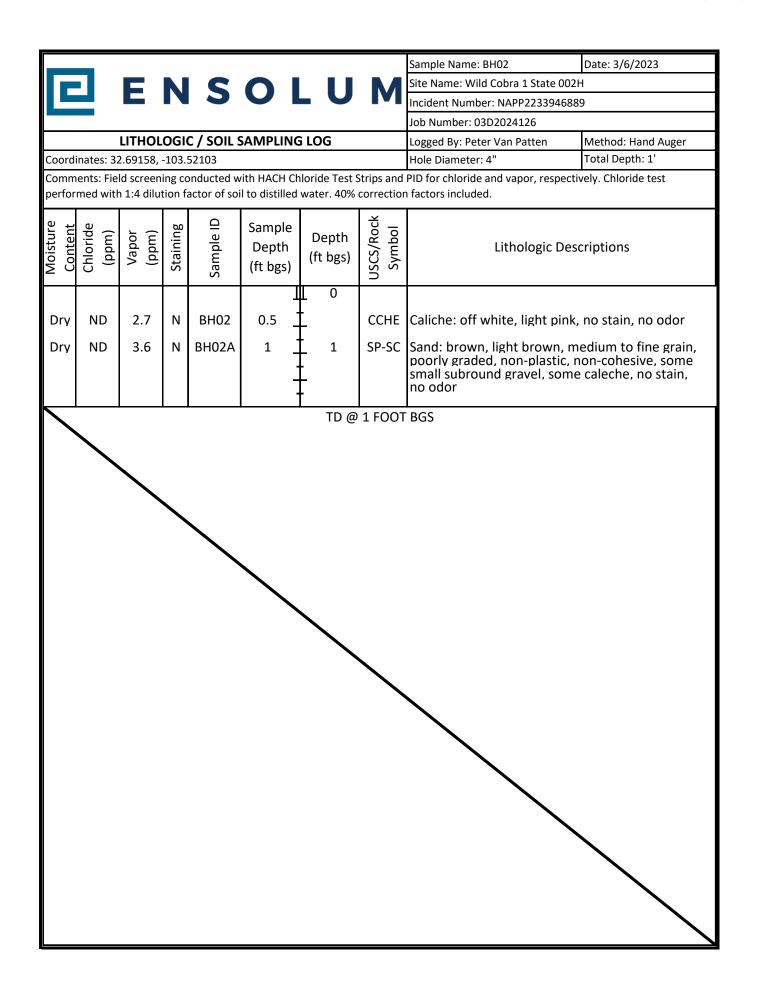
Date \$ Time \$	Water-level date-time accuracy	Parameter \$	level, feet \$ below land	Water level, feet above \$ specific vertical	Referenced vertical \$ datum	Status \$	Method of measurement	Measuring \$	Source of the measurement	Water-level \$ approval status
				datum						
1961-03-09	D	62610		3860.19	NGVD29	1	Z			-
1961-03-09	D			3861.82	NAVD88	1	Z			4
1961-03-09	D					1	z			Į.
1966-02-08	D	62610		3859.94	NGVD29	1	Z			A
1966-02-08	D	62611		3861.57	NAVD88	1	Z			4
1966-02-08	D	72019	62.06			1	Z			,
1971-01-26	D	62610		3860.28	NGVD29	p	Z			,
1971-01-26	D	62611		3861.91	NAVD88	p	Z			,
1971-01-26	D	72019	61.72			p	Z			-
1976-02-12	D	62610		3861.34	NGVD29	1	Z			A
1976-02-12	D	62611		3862.97	NAVD88	1	Z			A.
1976-02-12	D	72019	60.66			1	Z			A
1981-01-28	D	62610		3860.73	NGVD29	1	Z			Į.
1981-01-28	D	62611		3862.36	NAVD88	1	Z			A
1981-01-28	D	72019	61.27			1	Z			, and a
1986-02-04	D	62610		3860.60	NGVD29	1	Z			A
1986-02-04	D	62611		3862.23	NAVD88	1	Z			-
1986-02-04	D	72019	61.40			1	Z			-
1991-04-16	D	62610		3860.46	NGVD29	1	Z			
1991-04-16	D	62611		3862.09	NAVD88	1	Z			4
1991-04-16	D	72019	61.54			1	Z			A
1996-02-01	D	62610		3860.32	NGVD29	1	S			A
1996-02-01	D	62611		3861.95	NAVD88	1	S			
Released to Linaging: 7/28/2023 1:45:5	4 PM D	72019	61.68			1	S			• 1

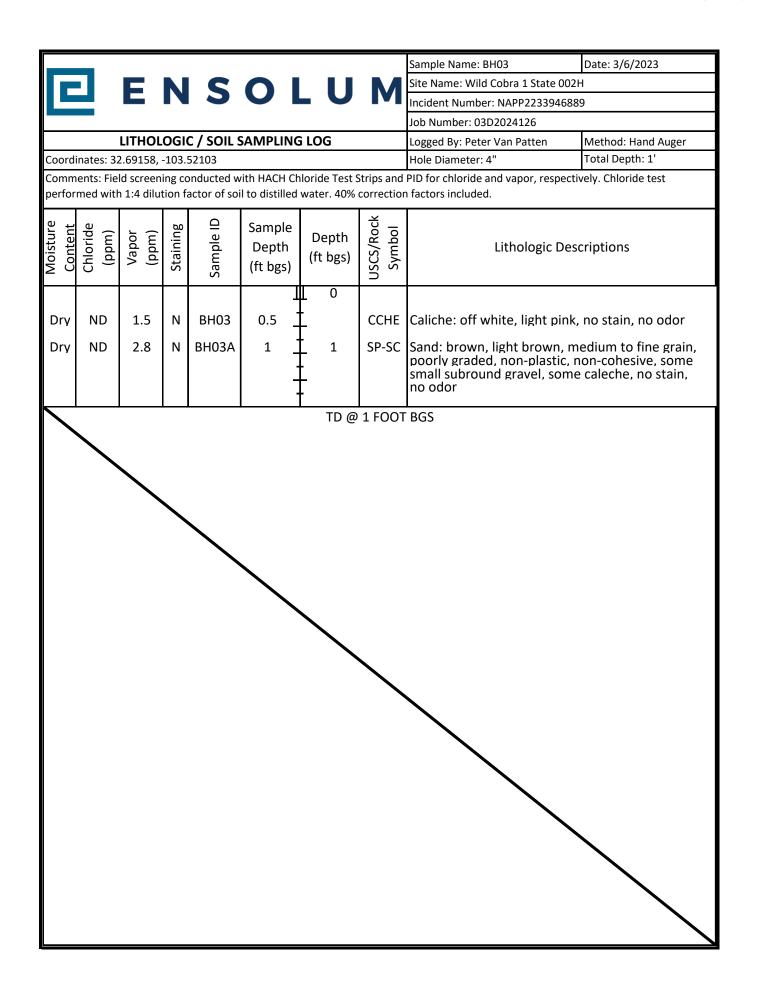


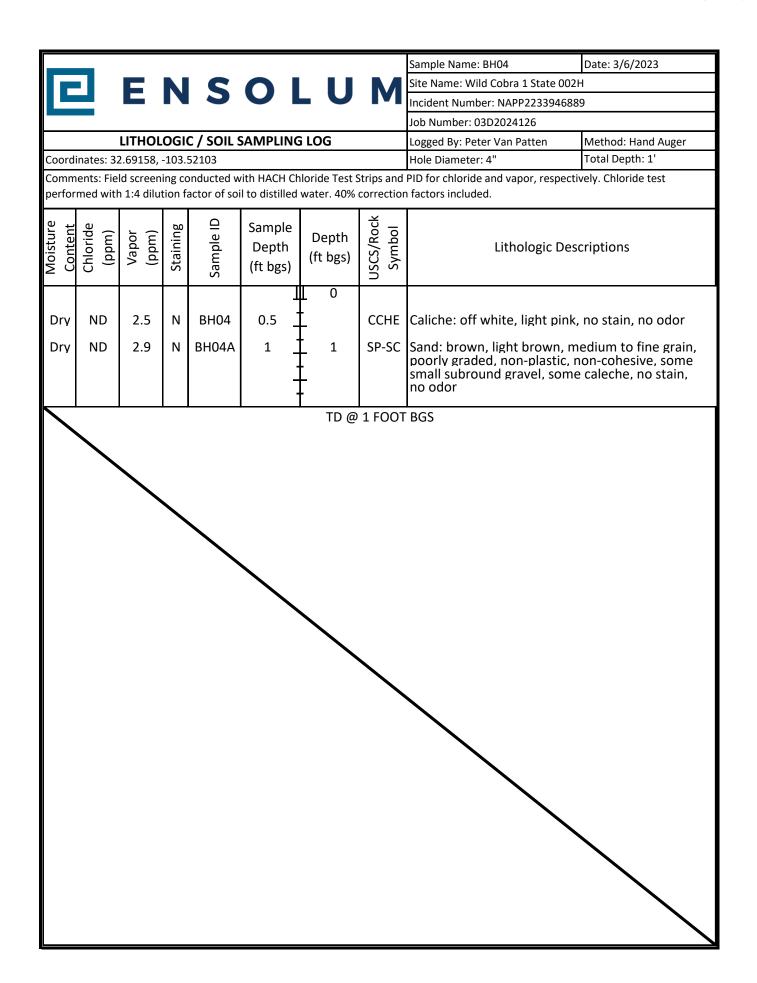
APPENDIX B

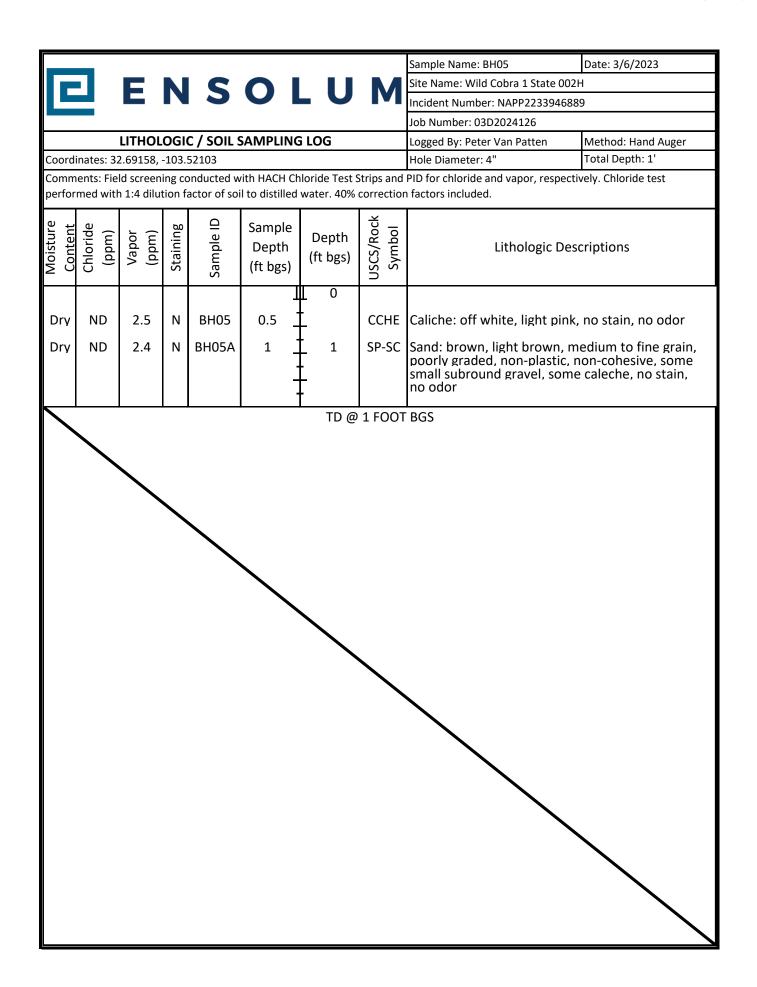
Lithologic Soil Sampling Logs













APPENDIX C

Photographic Log



Photographic Log

COG Operating, LLC
Wild Cobra 1 State 002H
Incident Number NAPP2233946889





Photograph: 1 Date: 11/30/2022

Description: Soil staining in release footprint

View: South

Photograph: 2 Date: 12/20/2022 Description: Soil staining in pasture south of pad

View: Southeast





Photograph: 3 Date: 1/4/2023

Description: Excavation activities

View: South

Photograph: 4 Date: 1/4/2023

Description: Excavation activities

View: Northeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 1/13/2023 10:38:14 AM

JOB DESCRIPTION

Wild Cobra 1 State 2H SDG NUMBER Lea

JOB NUMBER

890-3766-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 1/13/2023 10:38:14 AM

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

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

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7

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4.6

14

Client: Ensolum
Project/Site: Wild Cobra 1 State 2H

Laboratory Job ID: 890-3766-1
SDG: Lea

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Definitions/Glossary

Job ID: 890-3766-1 Client: Ensolum

Project/Site: Wild Cobra 1 State 2H SDG: Lea

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.

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

Listed under the "D" column to designate that the result is reported on a dry weight basis

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

MDL Method Detection Limit Minimum Level (Dioxin) ML

MPN Most Probable Number Method Quantitation Limit MQL

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

SDG: Lea

Job ID: 890-3766-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-3766-1

Receipt

The samples were received on 1/5/2023 10:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-3766-1), FS02 (890-3766-2), FS03 (890-3766-3), FS04 (890-3766-4), FS05 (890-3766-5), FS06 (890-3766-6) and FS07 (890-3766-7).

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: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-43382 and analytical batch 880-43449 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 and precision for preparation batch 880-43411 and analytical batch 880-43621 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Matrix: Solid

Lab Sample ID: 890-3766-1

Client Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS01

Date Collected: 01/04/23 09:00 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		70 - 130			01/06/23 16:33	01/09/23 15:59	1
1,4-Difluorobenzene (Surr)	90		70 - 130			01/06/23 16:33	01/09/23 15:59	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/23 13:56	1
Method: SW846 8015 NM - Diese			GC)					
			•		_			
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	GC) RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 09:38	
Analyte	Result	Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared		
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9	Qualifier U unics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			01/09/23 09:38	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9 sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	01/09/23 09:38 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22	Dil Face
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22 01/07/23 17:22 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Diese Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U unics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22 01/07/23 17:22 Analyzed 01/07/23 17:22	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U unics (DRO) Qualifier U U Qualifier	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 01/06/23 12:59 01/06/23 12:59 01/06/23 12:59 Prepared 01/06/23 12:59	01/09/23 09:38 Analyzed 01/07/23 17:22 01/07/23 17:22 01/07/23 17:22 Analyzed 01/07/23 17:22	Dil Face 1 Dil Face 1 1 Dil Face 1 Dil Face 1 Dil Face

Client Sample ID: FS02

Date Collected: 01/04/23 14:00 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/06/23 16:33	01/09/23 16:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			01/06/23 16:33	01/09/23 16:20	

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Lab Sample ID: 890-3766-2

Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS02

Lab Sample ID: 890-3766-2 Date Collected: 01/04/23 14:00 Matrix: Solid Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1 4-Difluorobenzene (Surr)	96	70 130	01/06/23 16:33	01/09/23 16:20	1

Method: TAL SOP To	tal RTEY - Total I	RTEY Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399 U	0.00399	ma/Ka			01/10/23 13:56	1

l .		
Method: SW846 8015 NM -	Discal Dance Occasion	(DDO) (CC)
I WETDOO'S WAAH AU15 NIVI .	. Diesei Ranne Ornanics	(I)R()) ((=(.)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			01/09/23 09:38	1

Method: SW846 8015B NM - Diesel Range Organics	(DRO)	(GC)	١
motified. Offerto College Ithin Biodol Rungo Organico	(5.10)	, , , , ,	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/06/23 12:59	01/07/23 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/06/23 12:59	01/07/23 17:43	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/06/23 12:59	01/07/23 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79	70 - 130	01/06/23 12:59	01/07/23 17:43	1
o-Terphenyl	80	70 - 130	01/06/23 12:59	01/07/23 17:43	1

Method: MCAWW 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	92.8		5.00	mg/Kg			01/12/23 22:58	1

Client Sample ID: FS03 Lab Sample ID: 890-3766-3

Date Collected: 01/04/23 14:05 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Method: SW846 802	1B - Volatile Orga	inic Compounds (GC)

Method. 344040 0021D - Volati	ne Organic Comp	ounus (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 16:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorohenzene (Surr)	100		70 130			01/06/23 16:33	01/00/23 16:41	

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/06/23 16:33	01/09/23 16:41	1
1,4-Difluorobenzene (Surr)	93		70 - 130	01/06/23 16:33	01/09/23 16:41	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/23 13:56	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/09/23 09:38	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-3766-3

01/12/23 23:04

Client Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS03

Date Collected: 01/04/23 14:05 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:04	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:04	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	80		70 - 130			01/06/23 12:59	01/07/23 18:04	1
o-Terphenyl	82		70 - 130			01/06/23 12:59	01/07/23 18:04	1
Method: MCAWW 300.0 - Anions	. Ion Chromato	ography - So	oluble					
Analyte	Result	0	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS04 Lab Sample ID: 890-3766-4 Date Collected: 01/04/23 14:10 **Matrix: Solid**

5.04

70.8

mg/Kg

Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/06/23 16:33	01/09/23 17:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			01/06/23 16:33	01/09/23 17:01	1
1,4-Difluorobenzene (Surr)	84		70 - 130			01/06/23 16:33	01/09/23 17:01	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/10/23 13:56	1
- Method: SW846 8015 NM - Die	esel Range Organ	ics (DRO) (GC)					

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/09/23 09:38	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	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:24	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:24	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 18:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			01/06/23 12:59	01/07/23 18:24	1
o-Terphenyl	79		70 - 130			01/06/23 12:59	01/07/23 18:24	1

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1/13/2023

Matrix: Solid

Lab Sample ID: 890-3766-4

Client Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS04

Date Collected: 01/04/23 14:10 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Method: MCAWW 300.0 - Anions, I	on Chromato	graphy - S	oluble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.6	F1	5.05	mg/Kg			01/12/23 09:58	1

Client Sample ID: FS05 Lab Sample ID: 890-3766-5 Matrix: Solid

Date Collected: 01/04/23 14:15 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		01/06/23 16:33	01/09/23 17:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			01/06/23 16:33	01/09/23 17:22	1
1,4-Difluorobenzene (Surr)	85		70 - 130			01/06/23 16:33	01/09/23 17:22	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			01/10/23 13:56	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/09/23 09:38	Dil Fac
				mg/rtg			01/03/23 09:30	'
Method: SW846 8015B NM - Die Analyte		inics (DRO) Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9		49.9	mg/Kg	_ =	01/06/23 12:59	01/07/23 18:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/06/23 12:59	01/07/23 18:46	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/06/23 12:59	01/07/23 18:46	1
	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate						0.1/0.0/0.0 10.50		
	80		70 - 130			01/06/23 12:59	01/07/23 18:46	1
Surrogate 1-Chlorooctane o-Terphenyl			70 - 130 70 - 130			01/06/23 12:59	01/07/23 18:46 01/07/23 18:46	
1-Chlorooctane o-Terphenyl	80 81	ography - So	70 - 130					1
1-Chlorooctane	80 81 s, Ion Chromato	ography - So Qualifier	70 - 130	Unit	D_			-

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Client: Ensolum

Job ID: 890-3766-1

SDG: Lea

Client Sample ID: FS06

Date Collected: 01/04/23 14:20 Date Received: 01/05/23 10:30

Project/Site: Wild Cobra 1 State 2H

Sample Depth: 0.5'

Lab Sample ID: 890-3766-6

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/06/23 16:33	01/09/23 17:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			01/06/23 16:33	01/09/23 17:42	1
1,4-Difluorobenzene (Surr)	100		70 - 130			01/06/23 16:33	01/09/23 17:42	1

	Method: TAL SOP Total BTEX - Tot	al BTEX Calcu	lation					
	Analyte	Result Q	Qualifier	RL Unit	D	Prepared	Analyzed	Dil Fac
l	Total BTEX	<0.00402 U	0.004	02 mg/K	g		01/10/23 13:56	1

Method: SW846 8015 NM - Diesel Ran	ge Organics (DRO) (G	C)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	749	50.0	mg/Kg			01/09/23 09:38	1

Method: SW846 8015B NM - Did Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/06/23 12:59	01/07/23 19:07	1
Diesel Range Organics (Over C10-C28)	419		50.0	mg/Kg		01/06/23 12:59	01/07/23 19:07	1
Oll Range Organics (Over C28-C36)	330		50.0	mg/Kg		01/06/23 12:59	01/07/23 19:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78	-	70 - 130			01/06/23 12:59	01/07/23 19:07	1

Method: MCAWW 300.0 - Anions, le	on Chromatography - So	luble					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.4	5.00	mg/Kg			01/12/23 10:23	1

70 - 130

77

Client Sample ID: FS07

Date Collected: 01/04/23 14:25

Lab Sample ID: 890-3766-7

Matrix: Solid

Date Collected: 01/04/23 14:25 Date Received: 01/05/23 10:30

Sample Depth: 0.5'

o-Terphenyl

Method: SW846 8021B - Vol	atile Organic Comp	ounds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 18:03	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 18:03	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 18:03	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/06/23 16:33	01/09/23 18:03	1
o-Xylene	0.0121		0.00200	mg/Kg		01/06/23 16:33	01/09/23 18:03	1
Xylenes, Total	0.0121		0.00399	mg/Kg		01/06/23 16:33	01/09/23 18:03	1

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01/06/23 12:59

01/07/23 19:07

2

5

5

7

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mo Ganobac

Client Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS07 Lab Sample ID: 890-3766-7

Date Collected: 01/04/23 14:25 Matrix: Solid Date Received: 01/05/23 10:30

Sample Depth: 0.5'

Analyte

Chloride

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	88		70 - 130			01/06/23 16:33	01/09/23 18:03	
1,4-Difluorobenzene (Surr)	92		70 - 130			01/06/23 16:33	01/09/23 18:03	
Method: TAL SOP Total BTEX - T	otal BTEX Calc	ulation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0121		0.00399	mg/Kg			01/10/23 13:56	
Method: SW846 8015 NM - Diese	I Range Organi	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies		nics (DRO)		mg/Kg		_	01/09/23 09:38	
				mg/Kg			01/09/23 09:38	
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	Prepared 01/06/23 12:50	Analyzed	Dil Fa
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 01/06/23 12:59		Dil Fa
Method: SW846 8015B NM - Dies Analyte	sel Range Orga Result	unics (DRO) Qualifier	(GC)	Unit	<u>D</u>	<u> </u>	Analyzed	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result <49.9	unics (DRO) Qualifier	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	01/06/23 12:59	Analyzed 01/07/23 19:27	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result <49.9	Qualifier U	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	01/06/23 12:59	Analyzed 01/07/23 19:27	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <49.9	Qualifier U	(GC) RL 49.9	unit mg/Kg mg/Kg	<u>D</u>	01/06/23 12:59	Analyzed 01/07/23 19:27 01/07/23 19:27	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9	Qualifier U	(GC) RL 49.9 49.9 49.9	unit mg/Kg mg/Kg	<u>D</u>	01/06/23 12:59 01/06/23 12:59 01/06/23 12:59	Analyzed 01/07/23 19:27 01/07/23 19:27 01/07/23 19:27	

4.98

Unit

mg/Kg

D

Prepared

Analyzed

01/12/23 10:29

Dil Fac

Result Qualifier

66.8

DFBZ = 1,4-Difluorobenzene (Surr)

Surrogate Summary

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-7012-A-1-E MS	Matrix Spike	85	105	
820-7012-A-1-F MSD	Matrix Spike Duplicate	97	98	
890-3766-1	FS01	81	90	
890-3766-2	FS02	91	96	
890-3766-3	FS03	100	93	
890-3766-4	FS04	108	84	
890-3766-5	FS05	115	85	
890-3766-6	FS06	102	100	
890-3766-7	FS07	88	92	
LCS 880-43439/1-A	Lab Control Sample	89	99	
LCSD 880-43439/2-A	Lab Control Sample Dup	106	102	
MB 880-43439/5-A	Method Blank	80	89	

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
820-7013-A-1-C MS	Matrix Spike	89	80	
820-7013-A-1-D MSD	Matrix Spike Duplicate	89	81	
890-3766-1	FS01	81	83	
890-3766-2	FS02	79	80	
890-3766-3	FS03	80	82	
890-3766-4	FS04	78	79	
890-3766-5	FS05	80	81	
890-3766-6	FS06	78	77	
890-3766-7	FS07	90	92	
LCS 880-43382/2-A	Lab Control Sample	123	110	
LCSD 880-43382/3-A	Lab Control Sample Dup	117	104	
MB 880-43382/1-A	Method Blank	124	121	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H SDG: Lea

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-43439/5-A

Matrix: Solid Analysis Batch: 43469 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43439

MB MB	
-------	--

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/06/23 16:33	01/09/23 11:10	1
o-Xylene	< 0.00200	U	0.00200	mg/Kg		01/06/23 16:33	01/09/23 11:10	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/06/23 16:33	01/09/23 11:10	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepa	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130	01/06/23	3 16:33	01/09/23 11:10	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/06/23	3 16:33	01/09/23 11:10	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43439

Lab Sample ID: LCS 880-43439/1-A Matrix: Solid

Analysis Batch: 43469

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1002		mg/Kg		100	70 - 130	
Toluene	0.100	0.1030		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.08917		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1878		mg/Kg		94	70 - 130	
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	89	70 - 130
1,4-Difluorobenzene (Surr)	99	70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 43469

Lab Sample ID: LCSD 880-43439/2-A

Prep Type: Total/NA Prep Batch: 43439

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09637		mg/Kg		96	70 - 130	4	35
Toluene	0.100	0.1021		mg/Kg		102	70 - 130	1	35
Ethylbenzene	0.100	0.09727		mg/Kg		97	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.2121		mg/Kg		106	70 - 130	12	35
o-Xylene	0.100	0.1167		mg/Kg		117	70 - 130	12	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 820-7012-A-1-E MS

Matrix: Solid

Analysis Batch: 43469

Client	Sample	ID: M	atrix	Spike
	Pror	Type	e: Tot	al/NΔ

Prep Batch: 43439

-	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00201	U	0.100	0.08667		mg/Kg		87	70 - 130	
Toluene	<0.00201	U	0.100	0.08297		mg/Kg		83	70 - 130	

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QC Sample Results

Job ID: 890-3766-1 Client: Ensolum Project/Site: Wild Cobra 1 State 2H

SDG: Lea

Lab Sample ID: 820-7012-A-1-E MS

Lab Sample ID: 820-7012-A-1-F MSD

Matrix: Solid

Matrix: Solid

Analysis Batch: 43469

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43439

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00201	U	0.100	0.07032		mg/Kg		70	70 - 130	
m-Xylene & p-Xylene	<0.00402	U	0.200	0.1435		mg/Kg		72	70 - 130	
o-Xylene	<0.00201	U	0.100	0.07855		mg/Kg		78	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	85	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 43439 RPD

RPD

5

Limit

35

Analysis Batch: 43469 Sample Sample Spike MSD MSD Result Qualifier Result Qualifier Analyte babbA Unit %Rec Limits Benzene <0.00201 U 0.0998 0.08281 mg/Kg 83 70 - 130

85 Toluene <0.00201 U 0.0998 0.08463 mg/Kg 70 - 130 2 35 Ethylbenzene <0.00201 U 0.0998 0.07402 74 70 - 130 5 35 mg/Kg 0.200 76 70 - 130 35 m-Xylene & p-Xylene <0.00402 U 0.1517 mg/Kg 6 0.0998 <0.00201 U 0.08272 83 70 - 130 o-Xylene mg/Kg 5

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

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

Lab Sample ID: MB 880-43382/1-A

Matrix: Solid

Analysis Batch: 43449

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 43382

MB MB Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 01/06/23 12:59 01/07/23 09:18 <50.0 U Gasoline Range Organics mg/Kg (GRO)-C6-C10 01/06/23 12:59 01/07/23 09:18 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 01/06/23 12:59 01/07/23 09:18 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	01/06/23 12:5	01/07/23 09:18	1
o-Terphenyl	121		70 - 130	01/06/23 12:5	01/07/23 09:18	1

Lab Sample ID: LCS 880-43382/2-A

Matrix: Solid

Analysis Batch: 43449

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

Prep Batch: 43382

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1076		mg/Kg		108	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	975.0		mg/Kg		98	70 - 130	
C10-C28)								

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Project/Site: Wild Cobra 1 State 2H

Client: Ensolum

Job ID: 890-3766-1

SDG: Lea

Lab Sample ID: LCS 880-43382/2-A **Matrix: Solid**

Lab Sample ID: LCSD 880-43382/3-A

Lab Sample ID: 820-7013-A-1-C MS

Analysis Batch: 43449

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 43382

LCS LCS

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

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 123 70 - 130 o-Terphenyl 110 70 - 130

Client Sample ID: Lab Control Sample Dup

70 - 130

91

Prep Type: Total/NA

Prep Batch: 43382

Analysis Batch: 43449 Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 993.4 99 70 - 1308 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10

910.2

mg/Kg

1000

Diesel Range Organics (Over C10-C28)

Matrix: Solid

LCSD LCSD

Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 117 104 70 - 130 o-Terphenyl

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 43382

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 843.8 mg/Kg 82 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 998 690.3 F1 mg/Kg 67 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 43449

MS MS %Recovery

Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 89 70 - 130 o-Terphenyl 80

Lab Sample ID: 820-7013-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 43449

Prep Type: Total/NA

Prep Batch: 43382 RPD %Rec

Sample Sample MSD MSD Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 997 845.6 82 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 UF1 997 681.4 F1 mg/Kg 66 70 - 130 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 89 70 - 130 81 70 - 130 o-Terphenyl

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20

Job ID: 890-3766-1 Client: Ensolum Project/Site: Wild Cobra 1 State 2H

Prep Type: Soluble

Client Sample ID: FS04

Client Sample ID: FS04 **Prep Type: Soluble**

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Method Blank

SDG: Lea

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-43411/1-A

Matrix: Solid

Analysis Batch: 43621

мв мв

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/12/23 09:40

Lab Sample ID: LCS 880-43411/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43621

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 273.9 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-43411/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 43621

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 273.8 250 mg/Kg 110 90 - 110

Lab Sample ID: 890-3766-4 MS

Matrix: Solid

Analysis Batch: 43621

Sample Sample MS MS Spike %Rec Result Qualifier Result Qualifier Added Analyte Unit D %Rec Limits Chloride 95.6 253 391.8 F1 117 90 - 110 mg/Kg

Lab Sample ID: 890-3766-4 MSD

Matrix: Solid

Analysis Batch: 43621

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 95.6 F1 Chloride 253 392.8 F1 mg/Kg 118 90 - 110

Lab Sample ID: MB 880-43412/1-A

Matrix: Solid

Analysis Batch: 43622

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 01/12/23 20:00

Lab Sample ID: LCS 880-43412/2-A

Matrix: Solid

Analysis Batch: 43622

LCS LCS %Rec Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 269.5 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-43412/3-A

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Matrix: Solid

Analysis Batch: 43622

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 271.4 mg/Kg 109 90 - 110 20

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QC Sample Results

Client: Ensolum Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 890-3763-A-4-G MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 43622

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 4940 1240 6303 mg/Kg 110 90 - 110

Lab Sample ID: 890-3763-A-4-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 43622 Sample Sample Spike MSD MSD %Rec

RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 4940 1240 6228 mg/Kg 104 90 - 110 20

Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

SDG: Lea

GC VOA

Prep Batch: 43439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	5035	
890-3766-2	FS02	Total/NA	Solid	5035	
890-3766-3	FS03	Total/NA	Solid	5035	
890-3766-4	FS04	Total/NA	Solid	5035	
890-3766-5	FS05	Total/NA	Solid	5035	
890-3766-6	FS06	Total/NA	Solid	5035	
890-3766-7	FS07	Total/NA	Solid	5035	
MB 880-43439/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
820-7012-A-1-E MS	Matrix Spike	Total/NA	Solid	5035	
820-7012-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 43469

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	8021B	43439
890-3766-2	FS02	Total/NA	Solid	8021B	43439
890-3766-3	FS03	Total/NA	Solid	8021B	43439
890-3766-4	FS04	Total/NA	Solid	8021B	43439
890-3766-5	FS05	Total/NA	Solid	8021B	43439
890-3766-6	FS06	Total/NA	Solid	8021B	43439
890-3766-7	FS07	Total/NA	Solid	8021B	43439
MB 880-43439/5-A	Method Blank	Total/NA	Solid	8021B	43439
LCS 880-43439/1-A	Lab Control Sample	Total/NA	Solid	8021B	43439
LCSD 880-43439/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	43439
820-7012-A-1-E MS	Matrix Spike	Total/NA	Solid	8021B	43439
820-7012-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	43439

Analysis Batch: 43666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	Total BTEX	
890-3766-2	FS02	Total/NA	Solid	Total BTEX	
890-3766-3	FS03	Total/NA	Solid	Total BTEX	
890-3766-4	FS04	Total/NA	Solid	Total BTEX	
890-3766-5	FS05	Total/NA	Solid	Total BTEX	
890-3766-6	FS06	Total/NA	Solid	Total BTEX	
890-3766-7	FS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 43382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	8015NM Prep	
890-3766-2	FS02	Total/NA	Solid	8015NM Prep	
890-3766-3	FS03	Total/NA	Solid	8015NM Prep	
890-3766-4	FS04	Total/NA	Solid	8015NM Prep	
890-3766-5	FS05	Total/NA	Solid	8015NM Prep	
890-3766-6	FS06	Total/NA	Solid	8015NM Prep	
890-3766-7	FS07	Total/NA	Solid	8015NM Prep	
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

SDG: Lea

GC Semi VOA (Continued)

Prep Batch: 43382 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-7013-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-7013-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 43449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	8015B NM	43382
890-3766-2	FS02	Total/NA	Solid	8015B NM	43382
890-3766-3	FS03	Total/NA	Solid	8015B NM	43382
890-3766-4	FS04	Total/NA	Solid	8015B NM	43382
890-3766-5	FS05	Total/NA	Solid	8015B NM	43382
890-3766-6	FS06	Total/NA	Solid	8015B NM	43382
890-3766-7	FS07	Total/NA	Solid	8015B NM	43382
MB 880-43382/1-A	Method Blank	Total/NA	Solid	8015B NM	43382
LCS 880-43382/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	43382
LCSD 880-43382/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	43382
820-7013-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	43382
820-7013-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	43382

Analysis Batch: 43490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Total/NA	Solid	8015 NM	
890-3766-2	FS02	Total/NA	Solid	8015 NM	
890-3766-3	FS03	Total/NA	Solid	8015 NM	
890-3766-4	FS04	Total/NA	Solid	8015 NM	
890-3766-5	FS05	Total/NA	Solid	8015 NM	
890-3766-6	FS06	Total/NA	Solid	8015 NM	
890-3766-7	FS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 43411

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-4	FS04	Soluble	Solid	DI Leach	
890-3766-5	FS05	Soluble	Solid	DI Leach	
890-3766-6	FS06	Soluble	Solid	DI Leach	
890-3766-7	FS07	Soluble	Solid	DI Leach	
MB 880-43411/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43411/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43411/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-3766-4 MS	FS04	Soluble	Solid	DI Leach	
890-3766-4 MSD	FS04	Soluble	Solid	DI Leach	

Leach Batch: 43412

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Soluble	Solid	DI Leach	
890-3766-2	FS02	Soluble	Solid	DI Leach	
890-3766-3	FS03	Soluble	Solid	DI Leach	
MB 880-43412/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-43412/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-43412/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

SDG: Lea

HPLC/IC (Continued)

Leach Batch: 43412 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3763-A-4-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-3763-A-4-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 43621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-4	FS04	Soluble	Solid	300.0	43411
890-3766-5	FS05	Soluble	Solid	300.0	43411
890-3766-6	FS06	Soluble	Solid	300.0	43411
890-3766-7	FS07	Soluble	Solid	300.0	43411
MB 880-43411/1-A	Method Blank	Soluble	Solid	300.0	43411
LCS 880-43411/2-A	Lab Control Sample	Soluble	Solid	300.0	43411
LCSD 880-43411/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43411
890-3766-4 MS	FS04	Soluble	Solid	300.0	43411
890-3766-4 MSD	FS04	Soluble	Solid	300.0	43411

Analysis Batch: 43622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-3766-1	FS01	Soluble	Solid	300.0	43412
890-3766-2	FS02	Soluble	Solid	300.0	43412
890-3766-3	FS03	Soluble	Solid	300.0	43412
MB 880-43412/1-A	Method Blank	Soluble	Solid	300.0	43412
LCS 880-43412/2-A	Lab Control Sample	Soluble	Solid	300.0	43412
LCSD 880-43412/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	43412
890-3763-A-4-G MS	Matrix Spike	Soluble	Solid	300.0	43412
890-3763-A-4-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	43412

Eurofins Carlsbad

Client: Ensolum

Project/Site: Wild Cobra 1 State 2H

Job ID: 890-3766-1

SDG: Lea

Client Sample ID: FS01

Date Collected: 01/04/23 09:00 Date Received: 01/05/23 10:30

Lab Sample ID: 890-3766-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 15:59	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 17:22	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	43412	01/06/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1			43622	01/12/23 22:52	CH	EET MID

Client Sample ID: FS02

Date Collected: 01/04/23 14:00

Date Received: 01/05/23 10:30

Lab Sample ID: 890-3766-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 01/06/23 16:33 Total/NA 5.01 g 5 mL 43439 MNR EET MID Total/NA 8021B 5 mL 01/09/23 16:20 **EET MID** Analysis 1 5 mL 43469 MNR Total/NA Total BTEX 43666 01/10/23 13:56 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 43490 01/09/23 09:38 SM **EET MID** Total/NA 43382 01/06/23 12:59 Prep 8015NM Prep 10.03 g 10 mL DM EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 43449 01/07/23 17:43 SM **EET MID** Soluble 01/06/23 14:48 KS Leach DI Leach 5 g 50 mL 43412 EET MID Soluble Analysis 300.0 43622 01/12/23 22:58 СН **EET MID**

Client Sample ID: FS03

Date Collected: 01/04/23 14:05 Date Received: 01/05/23 10:30

Lab Sample ID: 890-3766-3

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 16:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 18:04	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	43412	01/06/23 14:48	KS	EET MID
Soluble	Analysis	300.0		1			43622	01/12/23 23:04	CH	EET MID

Client Sample ID: FS04

Date Collected: 01/04/23 14:10

Date Received: 01/05/23 10:30

Lab Sample ID: 890-3766-4

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 17:01	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID

Eurofins Carlsbad

Client: Ensolum

Project/Site: Wild Cobra 1 State 2H

Job ID: 890-3766-1

SDG: Lea

Client Sample ID: FS04

Date Collected: 01/04/23 14:10 Date Received: 01/05/23 10:30 Lab Sample ID: 890-3766-4

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			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 18:24	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	43411	01/06/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			43621	01/12/23 09:58	CH	EET MID

Client Sample ID: FS05 Lab Sample ID: 890-3766-5

Date Collected: 01/04/23 14:15 Date Received: 01/05/23 10:30

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 17:22	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 18:46	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	43411	01/06/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			43621	01/12/23 10:17	CH	EET MID

Client Sample ID: FS06 Lab Sample ID: 890-3766-6

Date Collected: 01/04/23 14:20 Date Received: 01/05/23 10:30

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 17:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	43449	01/07/23 19:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	43411	01/06/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			43621	01/12/23 10:23	CH	EET MID

Client Sample ID: FS07 Lab Sample ID: 890-3766-7

Date Collected: 01/04/23 14:25 Date Received: 01/05/23 10:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	43439	01/06/23 16:33	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	43469	01/09/23 18:03	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			43666	01/10/23 13:56	AJ	EET MID
Total/NA	Analysis	8015 NM		1			43490	01/09/23 09:38	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	43382	01/06/23 12:59	DM	EET MID
Total/NA	Analysis	8015B NM		1	1 ml	1 ul	43449	01/07/23 19:27	SM	FET MID

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Lab Chronicle

Client: Ensolum

Job ID: 890-3766-1

Project/Site: Wild Cobra 1 State 2H SDG: Lea

Client Sample ID: FS07

Lab Sample ID: 890-3766-7

Date Collected: 01/04/23 14:25
Date Received: 01/05/23 10:30
Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	43411	01/06/23 14:47	KS	EET MID
Soluble	Analysis	300.0		1			43621	01/12/23 10:29	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

Total BTEX

SDG: Lea

Laboratory: Eurofins Midland

Total BTEX

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

Authority	Pr	ogram	Identification Number	Expiration Date 06-30-23	
Texas	NE	ELAP	T104704400-22-25		
The following analytes are included in this report, but the laboratory is not of			ed by the governing authority. This list ma	may include analytes	
				ay infoldace arrany too ic	
the agency does not of	er certification.	•	, , ,	ay molade analytes le	
the agency does not of		Matriy	Δnalyte	y moidde dhaiytes te	
• ,	er certification. Prep Method	Matrix	Analyte	ay molade analytes i	

Solid

Method Summary

Client: Ensolum Job ID: 890-3766-1 Project/Site: Wild Cobra 1 State 2H

SDG: Lea

EET MID

ASTM

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

Protocol References:

DI Leach

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wild Cobra 1 State 2H

Job ID: 890-3766-1

SDG: Lea

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-3766-1	FS01	Solid	01/04/23 09:00	01/05/23 10:30	0.5'
890-3766-2	FS02	Solid	01/04/23 14:00	01/05/23 10:30	0.5'
890-3766-3	FS03	Solid	01/04/23 14:05	01/05/23 10:30	0.5'
890-3766-4	FS04	Solid	01/04/23 14:10	01/05/23 10:30	0.5'
890-3766-5	FS05	Solid	01/04/23 14:15	01/05/23 10:30	0.5'
890-3766-6	FS06	Solid	01/04/23 14:20	01/05/23 10:30	0.5'
890-3766-7	FS07	Solid	01/04/23 14:25	01/05/23 10:30	0.5'

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Received by OCD: 5/9/2023 9:55:07 AM

Environment Testing Xenco

Chain of Custody

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

Work Order No:	
work Order No:	

www.xenco.com

Project Manager:	Josh A	Adams				Bill to: (if different)			Kalei Jennings					Work Order Comments										
Company Name:	Ensolum, LLC Company Na				y Name	me: Ensolum, LLC				Pr	Program: UST/PST PRP Brownfields RRC Superfund													
Address:	601 N Marienfeld St Suite 400 Address:				601 N Marienfeld St Suite 400					State of Project:														
City, State ZIP:	Midland, TX 79701			City, Sta	te ZIP:		Midla	nd, TX	79701					Re	porting	j: Level		evel III	PS	ST/UST 🗌 TI	RRP 🗌	Level IV		
Phone:	303-51	17-8437			Email:	kjenning	gs@en	solum	.com,	jadan	is@ei	nsolum	.com			De	Deliverables: EDD ADaPT Other:							
Project Name:	Wild Cobra 1 State 2H Turn Around			ANALYSIS RE				REQUE	QUEST Pre			Presi	rvative	Codes										
Project Number:			202412		☑ Routine	Rush	1	Pres.							T		T		T			None: NO	DI	Water: H₂O
Project Location:			Lea		Due Date:			Ouc											Cool: Cool	Me	OH: Me			
Sampler's Name:			Van Pat	tten	TAT starts the	e day rece	ived by															HCL: HC	HN	O ₃ : HN
PO#:					the lab, if red		·	20								A STATE OF THE STA					H ₂ S0 ₄ : H ₂ NaOH: Na			
SAMPLE RECEIP	T	Temp B	lank:	(es No	Wet ice:	(Ves	No	nete	6					W					H₃PO₄: HP					
Samples Received In		1/	,	Thermometer		Tom.	DO-7	ara	300.0)					111				mm	MIN			NaHSO₄: N		
Cooler Custody Seals	3:	Yes No	_	Correction Fa		-0	·a	4	(EPA:	1				- 1					Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn					
Sample Custody Seal	ls:	Yes No		Temperature		5.			S (E		£			89	0-3766	Chain	of Cus	tody			_			
Total Containers:	otal Containers: Corrected Temperature:			mperature:	5.			MD 850	3015	(8015) X (8021)			4	1	1 1 1 1 1					NaOH+Ascorbic Acid: SAPC				
Sample Ident	tificatio	on	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp			TPH (втех											Sam	ole Com	ments
FS01	1		Soil	1/4/2023	900	0.5'	Comp	1	х	х	х									 				
FS02	2		Soil	1/4/2023	1400	0.5'	Comp	1	×	x	х								_		4_			
FS03	3		Soil	1/4/2023	1405	0.5'	Comp	1	х	x	Х						\perp				4			
FS04	4		Soil	1/4/2023	1410	0.5'	Comp	1	x	х	х										┼			
FS05	5		Soil	1/4/2023	1415	0.5'	Comp	1	х	X	х		_							4-	┷			
FS06	3		Soil	1/4/2023	1420	0.5'	Comp	1	х	х	х								-					
FS07	7		Soil	1/4/2023	1425	0.5'	Comp	1	Х	Х	X				_				+	+	-			
													\rightarrow					-	-	-	+-	-		
									-	-		-			-	_	+		-	+-	+			
							<u>L</u>		<u></u>															
Total 200.7 / 60	10	200.8 / 6	020:	81																		la Sr Tl Sn		
Circle Method(s) an	d Met	al(s) to be	e analyz	zed	TCLP / S	PLP 601	10: 8R	CRA	Sb A	As Ba	Be (Cd Cr	Co C	u Pb	Mn N	o Ni	Se Ag	TI U		Hg:	1631	/ 245.1 / 74	0 / 747	1

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Jeter Van Patter	Avera Slot	1-5-23 1030	P .		
3	0		4		
5			6		Paired Date: 08/25/2020 Pay 20

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Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3766-1

SDG Number: Lea

Login Number: 3766 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	N/A	

<6mm (1/4").

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-3766-1

SDG Number: Lea

List Source: Eurofins Midland Login Number: 3766 List Number: 2

List Creation: 01/06/23 11:27 AM

Creator: Rodriguez, Leticia

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Josh Adams Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/9/2023 9:08:25 AM

JOB DESCRIPTION

Wild Cobra 1 State 002H SDG NUMBER 03D2057048

JOB NUMBER

890-4011-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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 2/9/2023 9:08:25 AM

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

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

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Laboratory Job ID: 890-4011-1

SDG: 03D2057048

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Definitions/Glossary

Client: Ensolum Job ID: 890-4011-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Qualifiers

GC	VOA
Qual	ifier

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

Qualifier Description

GC Semi VOA

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

HPLC/IC

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

Glossary

DLC

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

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

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

Decision Level Concentration (Radiochemistry)

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

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Job ID: 890-4011-1

Job ID: 890-4011-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4011-1

Receipt

The sample was received on 2/2/2023 4:28 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS06A (890-4011-1).

The following sample was received and analyzed from an unpreserved bulk soil jar: FS06A (890-4011-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-45694 and analytical batch 880-45648 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS06A (890-4011-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-4011-1

Client Sample Results

Client: Ensolum Job ID: 890-4011-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Client Sample ID: FS06A

Date Collected: 02/01/23 08:50 Date Received: 02/02/23 16:28

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		02/07/23 12:47	02/08/23 04:33	
Toluene	<0.00199	U	0.00199	mg/Kg		02/07/23 12:47	02/08/23 04:33	•
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		02/07/23 12:47	02/08/23 04:33	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		02/07/23 12:47	02/08/23 04:33	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		02/07/23 12:47	02/08/23 04:33	
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		02/07/23 12:47	02/08/23 04:33	,
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	81		70 - 130			02/07/23 12:47	02/08/23 04:33	1
1,4-Difluorobenzene (Surr)	68	S1-	70 - 130			02/07/23 12:47	02/08/23 04:33	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			02/08/23 11:08	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
		ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/09/23 09:48	Dil Fac
Analyte Total TPH	Result 187	Qualifier	RL 49.9		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result 187 sel Range Orga	Qualifier	RL 49.9		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result 187 sel Range Orga	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		<u> </u>	02/09/23 09:48	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 187 sel Range Orga Result	Qualifier nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg		Prepared	02/09/23 09:48 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 187 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 02/07/23 15:44	02/09/23 09:48 Analyzed 02/08/23 18:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 187 sel Range Orga Result <49.9	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/07/23 15:44 02/07/23 15:44	02/09/23 09:48 Analyzed 02/08/23 18:45 02/08/23 18:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 187 sel Range Orga	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/07/23 15:44 02/07/23 15:44 02/07/23 15:44	02/09/23 09:48 Analyzed 02/08/23 18:45 02/08/23 18:45	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 187	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/07/23 15:44 02/07/23 15:44 02/07/23 15:44 Prepared	02/09/23 09:48 Analyzed 02/08/23 18:45 02/08/23 18:45 02/08/23 18:45 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 187	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/07/23 15:44 02/07/23 15:44 02/07/23 15:44 Prepared 02/07/23 15:44	02/09/23 09:48 Analyzed 02/08/23 18:45 02/08/23 18:45 Analyzed 02/08/23 18:45	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 187 187	Qualifier nics (DRO) Qualifier U	RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/07/23 15:44 02/07/23 15:44 02/07/23 15:44 Prepared 02/07/23 15:44	02/09/23 09:48 Analyzed 02/08/23 18:45 02/08/23 18:45 Analyzed 02/08/23 18:45	Dil Fac

Surrogate Summary

Client: Ensolum Job ID: 890-4011-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

_				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-24368-A-1-G MS	Matrix Spike	62 S1-	99	
880-24368-A-1-H MSD	Matrix Spike Duplicate	68 S1-	81	
890-4011-1	FS06A	81	68 S1-	
LCS 880-45694/1-A	Lab Control Sample	113	87	
LCSD 880-45694/2-A	Lab Control Sample Dup	85	108	
MB 880-45604/5-A	Method Blank	74	93	
MB 880-45694/5-A	Method Blank	76	94	
Surrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco	overy (Acce
		1CO1	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-3997-A-1-E MS	Matrix Spike	98	99		
890-3997-A-1-F MSD	Matrix Spike Duplicate	97	97		
890-4011-1	FS06A	91	95		
LCS 880-45707/2-A	Lab Control Sample	100	108		
LCSD 880-45707/3-A	Lab Control Sample Dup	101	109		
MB 880-45707/1-A	Method Blank	113	126		
Surrogate Legend					
1CO = 1-Chlorooctane					

OTPH = o-Terphenyl

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QC Sample Results

Client: Ensolum Job ID: 890-4011-1 SDG: 03D2057048 Project/Site: Wild Cobra 1 State 002H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-45604/5-A

Analysis Batch: 45648

Matrix: Solid

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45604

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/06/23 13:13	02/07/23 10:58	
Toluene	<0.00200	U	0.00200	mg/Kg		02/06/23 13:13	02/07/23 10:58	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/06/23 13:13	02/07/23 10:58	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/06/23 13:13	02/07/23 10:58	
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/06/23 13:13	02/07/23 10:58	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/06/23 13:13	02/07/23 10:58	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	02/06/23 13:13	02/07/23 10:58	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/06/23 13:13	02/07/23 10:58	1

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 45694

Analysis Batch: 45648 мв мв

Lab Sample ID: MB 880-45694/5-A

Analyte	Result (Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/07/23 12:47	02/07/23 22:42	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/07/23 12:47	02/07/23 22:42	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/07/23 12:47	02/07/23 22:42	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/07/23 12:47	02/07/23 22:42	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/07/23 12:47	02/07/23 22:42	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/07/23 12:47	02/07/23 22:42	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	l Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	02/07/23 12	:47 02/07/23 22:42	1
1,4-Difluorobenzene (Surr)	94		70 - 130	02/07/23 12	:47 02/07/23 22:42	1

Lab Sample ID: LCS 880-45694/1-A

Matrix: Solid

Analysis Batch: 45648

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 45694

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09645		mg/Kg		96	70 - 130	
Toluene	0.100	0.09813		mg/Kg		98	70 - 130	
Ethylbenzene	0.100	0.09878		mg/Kg		99	70 - 130	
m-Xylene & p-Xylene	0.200	0.2143		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1073		mg/Kg		107	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 _ 130
1.4-Difluorobenzene (Surr)	87	70 - 130

Lab Sample ID: LCSD 880-45694/2-A Client Sample ID: Lab Control Sample Dup

An Benzene

Matrix: Solid						•	Prep	Type: Tot	tal/NA		
Analysis Batch: 45648							Prep Batch: 45694				
	Spike	LCSD L	CSD				%Rec		RPD		
Analyte	Added	Result C	Qualifier	Unit	D	%Rec	Limits	RPD	Limit		

0.1154

mg/Kg

115

70 - 130

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QC Sample Results

Client: Ensolum Job ID: 890-4011-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

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

Lab Sample ID: LCSD 880-45694/2-A

Matrix: Solid Analysis Batch: 45648 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 45694 5

	Spike	LCSD	LCSD				%Rec		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09911		mg/Kg		99	70 - 130	1	35
Ethylbenzene	0.100	0.08932		mg/Kg		89	70 - 130	10	35
m-Xylene & p-Xylene	0.200	0.1768		mg/Kg		88	70 - 130	19	35
o-Xylene	0.100	0.08738		mg/Kg		87	70 - 130	20	35

LCSD LCSD

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

Lab Sample ID: 880-24368-A-1-G MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 45648

Prep Type: Total/NA

Prep Batch: 45694

Spike MS MS %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene <0.00202 U F2 F1 0.101 0.05813 F1 mg/Kg 58 70 - 130 Toluene <0.00202 U F2 F1 0.101 0.04554 F1 45 70 - 130 mg/Kg Ethylbenzene 0.101 0.04571 F1 45 70 - 130 <0.00202 U F2 F1 mg/Kg 0.202 m-Xylene & p-Xylene <0.00403 U F2 F1 0.07871 F1 39 70 - 130 mg/Kg o-Xylene <0.00202 UF1 0.101 0.04457 F1 mg/Kg 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	62	S1-	70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-24368-A-1-H MSD

Matrix: Solid

Analysis Batch: 45648

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 45694

		Sample	Sample	Spike	MSD	MSD				%Rec		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Benzene	<0.00202	U F2 F1	0.0990	0.03472	F2 F1	mg/Kg		35	70 - 130	50	35
	Toluene	<0.00202	U F2 F1	0.0990	0.02843	F2 F1	mg/Kg		29	70 - 130	46	35
	Ethylbenzene	<0.00202	U F2 F1	0.0990	0.02963	F2 F1	mg/Kg		30	70 - 130	43	35
ı	m-Xylene & p-Xylene	<0.00403	U F2 F1	0.198	0.05305	F2 F1	mg/Kg		27	70 - 130	39	35
	o-Xylene	<0.00202	U F1	0.0990	0.03146	F1	mg/Kg		32	70 - 130	35	35
١												

MSD MSD

Surrogate	76Recovery	Qualifier	LIIIIII
4-Bromofluorobenzene (Surr)	68	S1-	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

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

Lab Sample ID: MB 880-45707/1-A

Matrix: Solid

Analysis Batch: 45735

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

Prep Batch: 45707

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 02/07/23 15:44 02/08/23 08:16 (GRO)-C6-C10

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1-Chlorooctane

o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2057048

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

Lab Sample ID: MB 880-45707/1-A	Client Sample ID: Method Blank
Matrix: Solid	Prep Type: Total/NA
Analysis Batch: 45735	Prep Batch: 45707

	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		02/07/23 15:44	02/08/23 08:16	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		02/07/23 15:44	02/08/23 08:16	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			02/07/23 15:44	02/08/23 08:16	1
o-Terphenyl	126		70 - 130			02/07/23 15:44	02/08/23 08:16	1

Lab Sample ID: LCS 880-4570	7/2-A						Client	Sample	e ID: Lab Contr	ol Sample
Matrix: Solid									Prep Type	: Total/NA
Analysis Batch: 45735									Prep Bat	tch: 45707
			Spike	LCS	LCS				%Rec	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	734.3		mg/Kg		73	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over			1000	849.1		mg/Kg		85	70 - 130	
C10-C28)										
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							

70 - 130

70 - 130

Lab Sample ID: LCSD 880-45707/3-A	Sample ID: LCSD 880-45707/3-A								Client Sample ID: Lab Control Sample Dup						
Matrix: Solid							Prep 1	Гуре: То	tal/NA						
Analysis Batch: 45735							Prep	Batch:	45707						
	Spike	LCSD	LCSD				%Rec		RPD						
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit						
Gasoline Range Organics (GRO)-C6-C10	1000	793.5		mg/Kg		79	70 - 130	8	20						
Diesel Range Organics (Over C10-C28)	1000	927.1		mg/Kg		93	70 - 130	9	20						

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	109		70 - 130

99

100

108

Lab Sample ID: 890-3997-A-1- Matrix: Solid Analysis Batch: 45735	E MS							Client	Prep	: Matrix Spike Type: Total/NA) Batch: 45707
	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	998	934.5		mg/Kg		92	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	998	968.9		mg/Kg		97	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	98		70 - 130							

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70 - 130

o-Terphenyl

QC Sample Results

Job ID: 890-4011-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

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

Lab Sample ID: 890-3997-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Prep Type: Total/NA Analysis Batch: 45735 Prep Batch: 45707

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U	999	933.9		mg/Kg		92	70 - 130	0	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<50.0	U	999	954.9		mg/Kg		96	70 - 130	1	20
C10 C28)											

C10-C28)

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-45571/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45597

мв мв Result Qualifier RL Unit Analyte Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 02/06/23 13:37

Lab Sample ID: LCS 880-45571/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45597

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Chloride 250 256.8 103 90 - 110 mg/Kg

Lab Sample ID: LCSD 880-45571/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45597

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	257.2		mg/Kg	_	103	90 - 110		20	

Lab Sample ID: 890-4011-1 MS Client Sample ID: FS06A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 45597

Sample Sample Spike MS MS %Rec Result Qualifier Added Qualifier Analyte Result Unit %Rec Limits 90 - 110 Chloride 252 277 525.1 mg/Kg

Lab Sample ID: 890-4011-1 MSD

Matrix: Solid

Analysis Batch: 45597

Analysis Daton. 40001											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	277		252	527.7		mg/Kg		100	90 - 110	0	20

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Client Sample ID: FS06A

Prep Type: Soluble

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4011-1 SDG: 03D2057048

GC VOA

Prep Batch: 45604

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-45604/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 45648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	8021B	45694
MB 880-45604/5-A	Method Blank	Total/NA	Solid	8021B	45604
MB 880-45694/5-A	Method Blank	Total/NA	Solid	8021B	45694
LCS 880-45694/1-A	Lab Control Sample	Total/NA	Solid	8021B	45694
LCSD 880-45694/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	45694
880-24368-A-1-G MS	Matrix Spike	Total/NA	Solid	8021B	45694
880-24368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	45694

Prep Batch: 45694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	5035	
MB 880-45694/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-45694/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-45694/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-24368-A-1-G MS	Matrix Spike	Total/NA	Solid	5035	
880-24368-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 45774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 45707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	8015NM Prep	
MB 880-45707/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-45707/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-45707/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-3997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-3997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 45735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	8015B NM	45707
MB 880-45707/1-A	Method Blank	Total/NA	Solid	8015B NM	45707
LCS 880-45707/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	45707
LCSD 880-45707/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	45707
890-3997-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	45707
890-3997-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	45707

Analysis Batch: 45871

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2057048

HPLC/IC

Leach Batch: 45571

Lab Sample ID 890-4011-1	Client Sample ID FS06A	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-45571/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-45571/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-45571/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4011-1 MS	FS06A	Soluble	Solid	DI Leach	
890-4011-1 MSD	FS06A	Soluble	Solid	DI Leach	

Analysis Batch: 45597

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4011-1	FS06A	Soluble	Solid	300.0	45571
MB 880-45571/1-A	Method Blank	Soluble	Solid	300.0	45571
LCS 880-45571/2-A	Lab Control Sample	Soluble	Solid	300.0	45571
LCSD 880-45571/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	45571
890-4011-1 MS	FS06A	Soluble	Solid	300.0	45571
890-4011-1 MSD	FS06A	Soluble	Solid	300.0	45571

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Lab Chronicle

Client: Ensolum Job ID: 890-4011-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Client Sample ID: FS06A

Lab Sample ID: 890-4011-1 Date Collected: 02/01/23 08:50 Date Received: 02/02/23 16:28

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	45694	02/07/23 12:47	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	45648	02/08/23 04:33	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			45774	02/08/23 11:08	AJ	EET MID
Total/NA	Analysis	8015 NM		1			45871	02/09/23 09:48	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	45707	02/07/23 15:44	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	45735	02/08/23 18:45	AJ	EET MID
Soluble	Leach	DI Leach			4.97 g	50 mL	45571	02/06/23 10:56	KS	EET MID
Soluble	Analysis	300.0		1			45597	02/06/23 13:51	CH	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: 890-4011-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2057048

Laboratory: Eurofins Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, but	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes fo	
the agency does not of	• •	it the laboratory is not certain	su by the governing authority. This list his	ay include analytes to	
,	• •	Matrix	Analyte	ay include analytes to	
the agency does not of	fer certification.	,	, , ,	ay illicitude allalytes lo	

Method Summary

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2057048

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

Protocol References:

8015NM Prep

DI Leach

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Deionized Water Leaching Procedure

Laboratory References:

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

Eurofins Carlsbad

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EET MID

EET MID

SW846

ASTM

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Sample Summary

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4011-1

SDG: 03D2057048

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4011-1	FS06A	Solid	02/01/23 08:50	02/02/23 16:28	0.5

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Environment Testing

Chain of Custody

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

Work Order	No:		
MADIK Oldel	INO.		

Company Name: Address:	Josh Adams Ensolum, LLC 601 N Marienfe				D.11 4														_	
Address:					Bill to: (if different) Kalei Jennings			Work Order Comments												
	CO1 N Marianta				Company Name: Ensolum, LLC			Pro	Program: UST/PST PRP Brownfields RRC Superfund											
	out in Manenie	ld St S	uite 400		Address: 601 N Marienfeld St Suite 400 City, State ZIP: Midland, TX 79701				State of Project:											
City, State ZIP:	Midland, TX 79	701						Reporting: Level II Level III PST/UST TRRP Level IV				, ☐ Fevel IA ☐								
Phone:	303-517-8437			Email:	: kjennings@ensolum.com, jadams@ensolum.com			Del	verables	EDD		ADaP	T Other	:						
Project Name:	Wild Cobr	a 1 Stat	te 002H	Turn	Around							ANAL	YSIS RE	QUES	T				Preserva	ative Codes
Project Number:		202412		Routine	☑ Rush		Pres.												None: NO	DI Water: H₂O
Project Location: Sampler's Name: PO #:		Lea Van Pa	tten	Due Date: TAT starts th the lab, if red		ived by							 188 188 1880 18				Cool: Cool MeOH: Me HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na			
SAMPLE RECEI			Yes No	Wet Ice:	(Yes)	No	ameters	300.0)									H₃PO₄: HP NaHSO₄: NAB	ıs		
Samples Received In Cooler Custody Seals Sample Custody Sea	s: Yes No	(N/A	Thermometer Correction Fa Temperature	actor: Reading:		30	Para	(EPA:		5		890	-4011 Cha			Na ₂ S ₂ O ₃ : NaSo Zn Acetate+Na	O₃ aOH: Zn			
Total Containers:			Corrected Te	mperature:	4.	٥		SIDE	015)	(8021)			1	1	1				NaOH+Ascorb	c Acid: SAPC
Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES	TPH (8015)	ВТЕХ									Sample	Comments
FS06	A	Soil	2/1/2023	850	0.5'	Comp	1	х	х	х										
												0		+				+-		
												7)			li j					
											_	- V		+-	() (2) = ()			+		
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																		10 ::	a Sr TI Sn U	V 7-

Total 200.7 / 6010 200.8 / 6020:	8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
The Un tat-	(100 QL) 2.2.	23 H28	2		
	7		4		
			6		lavised Date: 08/25/2020 Rev.

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4011-1 SDG Number: 03D2057048

Login Number: 4011 List Source: Eurofins Carlsbad

List Number: 1 Creator: Clifton, Cloe

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	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: 890-4011-1

 SDG Number: 03D2057048

List Source: Eurofins Midland List Creation: 02/06/23 08:40 AM

Creator: Rodriguez, Leticia

Login Number: 4011

List Number: 2

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

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<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Hadlie Green Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 2/28/2023 2:42:41 PM

JOB DESCRIPTION

Wild Cobra 1 State 002H SDG NUMBER 03D2024126

JOB NUMBER

890-4161-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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 2/28/2023 2:42:41 PM

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

Client: Ensolum
Laboratory Job ID: 890-4161-1
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2024126

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Definitions/Glossary

Job ID: 890-4161-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

F2 MS/MSD RPD exceeds control limits

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

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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 TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4161-1

SDG: 03D2024126

Job ID: 890-4161-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4161-1

Receipt

The sample was received on 2/20/2023 4:13 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: FS06A (890-4161-1).

GC VOA

Method 8021B: The surrogate recovery for the blank associated with preparation batch 880-47310 and analytical batch 880-47287 was outside the control limits.

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

GC Semi VOA

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-47228 and analytical batch 880-47221 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-47228 and analytical batch 880-47221 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD NM: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-47228 and analytical batch 880-47221 was outside control limits. Sample non-homogeneity is suspected.

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

HPLC/IC

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

Lab Sample ID: 890-4161-1

Client Sample Results

Client: Ensolum Job ID: 890-4161-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: FS06A

Date Collected: 02/20/23 12:50 Date Received: 02/20/23 16:13

Sample Depth: 0.75

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 20:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 20:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 20:25	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		02/27/23 12:05	02/27/23 20:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 20:25	,
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		02/27/23 12:05	02/27/23 20:25	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	94		70 - 130			02/27/23 12:05	02/27/23 20:25	
1,4-Difluorobenzene (Surr)	90		70 - 130			02/27/23 12:05	02/27/23 20:25	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			02/28/23 12:13	1
		ICS IDRUI II	GC)					
		Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/27/23 12:30	Dil Fac
Analyte Total TPH	Result < 50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier U	RL 50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte	Result <50.0	Qualifier U nics (DRO) Qualifier	RL 50.0	mg/Kg			02/27/23 12:30	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier	RL 50.0 (GC)	mg/Kg		Prepared	02/27/23 12:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 sel Range Orga	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	02/27/23 12:30 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28 02/25/23 23:28 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28 02/25/23 23:28 Analyzed 02/25/23 23:28	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28 02/25/23 23:28 Analyzed 02/25/23 23:28	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg	D	Prepared 02/25/23 08:55 02/25/23 08:55 02/25/23 08:55 Prepared 02/25/23 08:55 02/25/23 08:55	02/27/23 12:30 Analyzed 02/25/23 23:28 02/25/23 23:28 02/25/23 23:28 Analyzed 02/25/23 23:28 02/25/23 23:28	Dil Fa

Surrogate Summary

Client: Ensolum Job ID: 890-4161-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4135-A-1-F MS	Matrix Spike	94	104	
390-4135-A-1-G MSD	Matrix Spike Duplicate	94	112	
390-4161-1	FS06A	94	90	
_CS 880-47310/1-A	Lab Control Sample	112	116	
_CSD 880-47310/2-A	Lab Control Sample Dup	107	115	
MB 880-47310/5-A	Method Blank	67 S1-	93	
Surrogate Legend				

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)
880-25168-A-21-B MS	Matrix Spike	114	113
880-25168-A-21-C MSD	Matrix Spike Duplicate	112	103
890-4161-1	FS06A	107	114
LCS 880-47228/2-A	Lab Control Sample	106	120
LCSD 880-47228/3-A	Lab Control Sample Dup	105	107
MB 880-47228/1-A	Method Blank	147 S1+	163 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

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QC Sample Results

Client: Ensolum Job ID: 890-4161-1 SDG: 03D2024126 Project/Site: Wild Cobra 1 State 002H

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-47310/5-A

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 47310

	INID	IAID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		02/27/23 12:05	02/27/23 14:21	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		02/27/23 12:05	02/27/23 14:21	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	67	S1-	70 - 130	 02/27/23 12:05	02/27/23 14:21	1
1,4-Difluorobenzene (Surr)	93		70 - 130	02/27/23 12:05	02/27/23 14:21	1

Lab Sample ID: LCS 880-47310/1-A

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47310

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1116		mg/Kg		112	70 - 130	
Toluene	0.100	0.1199		mg/Kg		120	70 - 130	
Ethylbenzene	0.100	0.1156		mg/Kg		116	70 - 130	
m-Xylene & p-Xylene	0.200	0.2342		mg/Kg		117	70 - 130	
o-Xylene	0.100	0.1224		mg/Kg		122	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	116		70 - 130

Lab Sample ID: LCSD 880-47310/2-A

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 47310

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1297		mg/Kg		130	70 - 130	15	35
Toluene	0.100	0.1198		mg/Kg		120	70 - 130	0	35
Ethylbenzene	0.100	0.1198		mg/Kg		120	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2430		mg/Kg		122	70 - 130	4	35
o-Xylene	0.100	0.1212		mg/Kg		121	70 - 130	1	35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	107	70 - 130
1,4-Difluorobenzene (Surr)	115	70 - 130

Lab Sample ID: 890-4135-A-1-F MS

Matrix: Solid

Analysis Batch: 47287

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

Prep Batch: 47310

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.08363		mg/Kg		84	70 - 130	
Toluene	<0.00198	U	0.0998	0.07891		mg/Kg		79	70 - 130	

QC Sample Results

Job ID: 890-4161-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

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

Client Sample ID: Matrix Spike Lab Sample ID: 890-4135-A-1-F MS Prep Type: Total/NA

Matrix: Solid Analysis Batch: 47287

o-Xylene

Prep Batch: 47310 Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D <0.00198 U 0.0998 0.07883 _ 79 70 - 130 Ethylbenzene mg/Kg m-Xylene & p-Xylene <0.00396 0.200 0.1596 mg/Kg 80 70 - 130

0.08053

0.0998

MS MS

<0.00198 U

Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 94 1,4-Difluorobenzene (Surr) 104 70 - 130

Lab Sample ID: 890-4135-A-1-G MSD

Matrix: Solid

Analysis Batch: 47287

Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA Prep Batch: 47310

Sample Sample Spike MSD MSD RPD Result Qualifier %Rec RPD Limit babbA Result Qualifier Limits Unit D

mg/Kg

81

70 - 130

Analyte Benzene <0.00198 U 0.100 0.09210 mg/Kg 92 70 - 130 10 35 Toluene <0.00198 0.100 0.08926 mg/Kg 89 70 - 130 12 35 <0.00198 0.100 0.08939 89 70 - 130 13 35 Ethylbenzene U mg/Kg m-Xylene & p-Xylene < 0.00396 U 0.201 0.1793 mg/Kg 89 70 - 130 12 35 70 - 130 0.100 91 o-Xylene <0.00198 U 0.09125 mg/Kg 12 35

MSD MSD

Qualifier Limits Surrogate %Recovery 4-Bromofluorobenzene (Surr) 94 70 - 130 1,4-Difluorobenzene (Surr) 112 70 - 130

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

Lab Sample ID: MB 880-47228/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 47221

мв мв

Result Qualifier RL Unit D Prepared Dil Fac Analyte Analyzed <50.0 U 50.0 02/25/23 08:55 02/25/23 20:13 Gasoline Range Organics mg/Kg (GRO)-C6-C10 02/25/23 08:55 Diesel Range Organics (Over <50.0 U 50.0 02/25/23 20:13 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 02/25/23 08:55 mg/Kg 02/25/23 20:13

MB MB

Limits Dil Fac %Recovery Qualifier Prepared Surrogate Analyzed 1-Chlorooctane 147 S1+ 70 - 130 02/25/23 08:55 02/25/23 20:13 163 S1+ 70 - 130 02/25/23 08:55 02/25/23 20:13 o-Terphenyl

Lab Sample ID: LCS 880-47228/2-A

Matrix: Solid

C10-C28)

Prep Type: Total/NA Analysis Batch: 47221 Prep Batch: 47228 LCS LCS %Rec Spike Analyte Added Result Qualifier Unit %Rec Limits 1000 97 969 7 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1086 mg/Kg 109 70 - 130

Eurofins Carlsbad

Client Sample ID: Lab Control Sample

Prep Batch: 47228

Job ID: 890-4161-1

Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

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

LCS LCS

Lab Sample ID: LCS 880-47228/2-A

Lab Sample ID: LCSD 880-47228/3-A

Lab Sample ID: 880-25168-A-21-B MS

Matrix: Solid

Analysis Batch: 47221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 47228

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 o-Terphenyl 120 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 47221 Prep Batch: 47228 Spike LCSD LCSD %Rec RPD

Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 968.1 97 70 - 1300 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 951.5 95 mg/Kg 70 - 13013 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 47228

Sample Sample Spike MS MS Added Result Qualifier Analyte Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F2 998 1095 mg/Kg 107 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 1035 mg/Kg 104 70 - 130

C10-C28)

Matrix: Solid

Analysis Batch: 47221

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 114 o-Terphenyl 113 70 - 130

Lab Sample ID: 880-25168-A-21-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 47221

Prep Type: Total/NA

Prep Batch: 47228

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F2	999	836.1	F2	mg/Kg		81	70 - 130	27	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	926.5		mg/Kg		93	70 - 130	11	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	112		70 - 130
o-Terphenyl	103		70 - 130

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

QC Sample Results

Job ID: 890-4161-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-47101/1-A

Matrix: Solid

Analysis Batch: 47257

Prep Type: Soluble MB MB

Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 02/26/23 23:36

Lab Sample ID: LCS 880-47101/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47257

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 253.6 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-47101/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** Analysis Batch: 47257

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 257.0 mg/Kg 103 90 - 110

Lab Sample ID: 890-4160-A-1-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 47257

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 37.9 251 266.7 90 - 110 mg/Kg

Lab Sample ID: 890-4160-A-1-C MSD

Matrix: Solid

Analysis Batch: 47257

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 251 Chloride 37.9 269.9 mg/Kg 92 90 - 110 20

QC Association Summary

Client: Ensolum

Job ID: 890-4161-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

GC VOA

Analysis Batch: 47287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	8021B	47310
MB 880-47310/5-A	Method Blank	Total/NA	Solid	8021B	47310
LCS 880-47310/1-A	Lab Control Sample	Total/NA	Solid	8021B	47310
LCSD 880-47310/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	47310
890-4135-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	47310
890-4135-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	47310

Prep Batch: 47310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	5035	
MB 880-47310/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-47310/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-47310/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4135-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-4135-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 47454

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 47221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	8015B NM	47228
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015B NM	47228
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	47228
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	47228
880-25168-A-21-B MS	Matrix Spike	Total/NA	Solid	8015B NM	47228
880-25168-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	47228

Prep Batch: 47228

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	8015NM Prep	
MB 880-47228/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-47228/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-47228/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-25168-A-21-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-25168-A-21-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 47325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 47101

Released to Imaging: 7/28/2023 1:45:54 PM

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Soluble	Solid	DI Leach	_ ·
MB 880-47101/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4161-1

SDG: 03D2024126

HPLC/IC (Continued)

Leach Batch: 47101 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4160-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4160-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 47257

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4161-1	FS06A	Soluble	Solid	300.0	47101
MB 880-47101/1-A	Method Blank	Soluble	Solid	300.0	47101
LCS 880-47101/2-A	Lab Control Sample	Soluble	Solid	300.0	47101
LCSD 880-47101/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	47101
890-4160-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	47101
890-4160-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	47101

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Lab Chronicle

Client: Ensolum Job ID: 890-4161-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: FS06A

Date Collected: 02/20/23 12:50 Date Received: 02/20/23 16:13 Lab Sample ID: 890-4161-1

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			5.01 g	5 mL	47310	02/27/23 12:05	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	47287	02/27/23 20:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			47454	02/28/23 12:13	SM	EET MID
Total/NA	Analysis	8015 NM		1			47325	02/27/23 12:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	47228	02/25/23 08:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	47221	02/25/23 23:28	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	47101	02/23/23 15:20	KS	EET MID
Soluble	Analysis	300.0		1			47257	02/27/23 01:01	CH	EET MID

Laboratory References:

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

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

Laboratory: Eurofins Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	ELAP	T104704400-22-25	06-30-23	
The following analytes	are included in this report, but	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytee for	
the agency does not of	• •	it the laboratory is not certifi	ed by the governing authority. This list his	ay iliciude allaiytes loi	
,	• •	Matrix	Analyte	ay include analytes for	
the agency does not of	fer certification.	•	, , ,	ay include analytes for	

Method Summary

Client: Ensolum

Job ID: 890-4161-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4161-1 SDG: 03D2024126

 Lab Sample ID
 Client Sample ID
 Matrix
 Collected
 Received
 Depth

 890-4161-1
 FS06A
 Solid
 02/20/23 12:50
 02/20/23 16:13
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Revised Date 08/25/2020 Rev. 2020.2

eurofins

Environment TestingXenco

Chain of Custody

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

Work Order No:	
WORK CHUELING.	

																			wwv	v.xenco	o.com	Page		of
Project Manager:	Hz	adlie	Green	~		Bill to: (i	if differen	t)	Ka	(re	Je	LTL	5			Work Order Comments								
Company Name:	E	solun	LL	-		Compar	ny Name	:	The	solu	las	0				Prog	ram:	UST/F	ST 🗌	PRP	Bro	ownfields 🗌	RRC [Superfund
Address:	Cet	(1.1)	Morce	Fell St	Site 400	Address	:		60	(1)	Morie	ufed	54.5	wite 40	(3	State of Project: Reporting: Level II Level III PST/UST TRRP Leve								
City, State ZIP:	My	land	TX	7970	1	City, Sta	te ZIP:		Mid	God	T	x -	7970							PST/UST 🗌	TRRP	Level IV		
Phone:	43	2-55	1-88	9	Email:	Kichn	74 @	ensol	un 1	04	he	a reen	echst	44.00	-	Deliv	erable	s: E	DD _		ADa	PT 🗆	Other:	
Project Name:	W:	H Cok	15	tack doe'H	Turn	Around	-0-						AN	IALYSIS R	REQUE	ST						Pres	ervativ	e Codes
Project Number:	0	3D202	. /	-	Noutine	Rusi	h	Pres. Code		Г	T						T	T				None: NO)	DI Water: H ₂ 0
Project Location:		1 00	110		Due Date:			Code	1													Cool: Cool	ı	MeOH: Me
Sampler's Name:	130	ter Va	Ras	ten	TAT starts the	dav receiv	ed by	1	36								1	1	1	1		HCL: HC		HNO 3: HN
PO #:	1	100	100		the lab, if rec				.0				1100101111	0.00010001		umani.	muni	IIII				H ₂ SO ₄ : H ₂	2	NaOH: Na
SAMPLE RECEIPT		Temp	Blank:	(Yes No	Wet Ice:	(Yes)	No	sters	EZA		0		1111111			iii iii	HWW	11111				H₃PO ₄: HI	Р	
Samples Received Int	act:	(Yes	No	Thermomete	er ID:	Thu	-23-	Parameters		0	305											NaHSO 4:	NABIS	
Cooler Custody Seals:		Yes No	NJA	Correction F	actor:	- 5).2	a.	3)	B	2					of Custody			_		Na ₂ S ₂ O ₃ :	NaSO	3	
Sample Custody Seals	:	Yes No	NA	Temperatur	e Reading:	5	.0		70	5			890-4	161 Cha	in oi	205100	47			_		Zn Acetat		
Total Containers:				Corrected To	emperature:	4	. &		hlorides	I	页		1	1)		1						NaOH+As	corbic	Acid: SAPC
Sample Ident	ificatio	n	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	2	4	TA											Sam	nple Co	omments
F506.	A		Eil	2-20-23	1250	0.75	Coas		X	X	X													
							4																	
											0.													
					2		5			7	11		Ma											
			1							r ·														
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			-														_	-	-	-	-			
																	L_							
Total 200.7 / 601	0	200.8 / 6	020:	8F	CRA 13PP	M Texa	as 11	Al Sb	As B	a Be	B Cd	Ca C	r Co Cı	Fe Pb	Mg	Mn A	Λο Ν	i K Se	Ag	SiO ₂ N	Na S	r Tl Sn U	V Zn	
ircle Method(s)	and M	etal(s) to	be ana	lyzed	TCLP / SI	PLP 6010	: 8RC	RA S	b As	Ba Be	Cd (Cr Co	Cu Pb	Mn Mo	Ni S	e Ag	TI U		Hg:	1631/	245.1	1 / 7470 / :	7471	
otice: Signature of this doc service. Eurofins Xenco w Eurofins Xenco. A minimu	ll be liabl	e only for the	cost of samp	les and shall not	assume any respon	nsibility for a	ny losses o	or expens	es Incum	ed by the	e client If	such loss	es are due to	circumstan	ces bey	and the c	ontrol	ated						
Relinquished by:			ne applied		y: (Signature	==	ipie submit	ned to El		Time	not anar			d by: (Sig			, negoti		eived l	oy: (Sig	natur	re)	Di	ate/Time
THIN I	24	2	A	rau A . (100	tot		2.	20:	23	16	17												
1	-4-		JVC	Erro.		Top		7 =			112	4												
	-						.0		_			6			_									

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 890-4161-1

 SDG Number: 03D2024126

Login Number: 4161 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: 890-4161-1 SDG Number: 03D2024126

Login Number: 4161 List Source: Eurofins Midland
List Number: 2 List Creation: 02/22/23 12:07 PM

Creator: Rodriguez, Leticia

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

y 100

<6mm (1/4").

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14

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kalei Jennings Ensolum

601 N. Marienfeld St.

Suite 400

Midland, Texas 79701

Generated 3/20/2023 11:38:08 AM

JOB DESCRIPTION

Wild Cobra 1 State 002H SDG NUMBER 03D2024126

JOB NUMBER

890-4243-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Released to Imaging: 7/28/2023 1:45:54 PM

Eurofins Carlsbad

Job Notes

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 3/20/2023 11:38:08 AM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 Client: Ensolum Laboratory Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

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Definitions/Glossary

Job ID: 890-4243-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Qualifiers

GC VOA Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

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 Contains No Free Liquid **CNF**

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac **Dilution Factor**

Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Case Narrative

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1

SDG: 03D2024126

Job ID: 890-4243-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4243-1

Receipt

The samples were received on 3/6/2023 3:14 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.4°C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: BH01 (890-4243-1), BH01A (890-4243-2), BH02 (890-4243-3), BH02A (890-4243-4), BH03 (890-4243-5), BH03A (890-4243-6), BH04 (890-4243-7), BH04A (890-4243-8), BH05 (890-4243-9), BH05A (890-4243-10), SS01 (890-4243-11), SS02 (890-4243-12), SS03 (890-4243-13) and SS04 (890-4243-14).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-48725 and analytical batch 880-48708 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.

GC Semi VOA

Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-48166 and analytical batch 880-48177 was outside the upper control limits.

Method 8015MOD NM: The surrogate recovery for the blank associated with preparation batch 880-48202 and analytical batch 880-48272 was outside the upper control limits.

Method 8015MOD NM: The method blank for preparation batch 880-48202 and analytical batch 880-48272 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48186 and 880-48186 and analytical batch 880-48242 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-48204 and analytical batch 880-48263 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Lab Sample ID: 890-4243-1

Client Sample Results

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH01

Date Collected: 03/06/23 09:50 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U F2 F1	0.00202	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
Toluene	<0.00202	U F1	0.00202	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
Ethylbenzene	<0.00202	U F1	0.00202	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
m-Xylene & p-Xylene	<0.00403	U F1	0.00403	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
o-Xylene	<0.00202	U F1	0.00202	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
Xylenes, Total	<0.00403	U F1	0.00403	mg/Kg		03/16/23 09:41	03/17/23 00:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/16/23 09:41	03/17/23 00:47	1
1,4-Difluorobenzene (Surr)	85		70 - 130			03/16/23 09:41	03/17/23 00:47	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
- -								
Method: SW846 8015 NM - Diese	•		•					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9							
	~49.9	U	49.9	mg/Kg			03/13/23 15:13	
: Method: SW846 8015B NM - Dies				mg/Kg				
	sel Range Orga Result	nics (DRO) Qualifier		mg/Kg Unit	D	Prepared		Dil Fac
Analyte Gasoline Range Organics	sel Range Orga	nics (DRO) Qualifier	(GC)		<u>D</u>	Prepared 03/09/23 10:55	03/13/23 15:13	1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	sel Range Orga Result	nics (DRO) Qualifier	(GC)	Unit	<u>D</u>	<u>·</u>	03/13/23 15:13 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	nics (DRO) Qualifier U	(GC) RL 49.9	<mark>Unit</mark> mg/Kg	<u>D</u>	03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 10:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9	nics (DRO) Qualifier U U	(GC) RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 10:56 03/10/23 10:56	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <49.9 <49.9	nics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	<u>D</u>	03/09/23 10:55 03/09/23 10:55 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 10:56 03/10/23 10:56 03/10/23 10:56	Dil Face 1 1 1 Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate	sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	nics (DRO) Qualifier U U	(GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg mg/Kg	<u>D</u>	03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared	03/13/23 15:13 Analyzed 03/10/23 10:56 03/10/23 10:56 03/10/23 10:56 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	sel Range Orga Result <49.9	U Qualifier U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 10:56 03/10/23 10:56 Analyzed 03/10/23 10:56	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <49.9	U Qualifier U Qualifier	(GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 10:56 03/10/23 10:56 Analyzed 03/10/23 10:56	Dil Fac

Client Sample ID: BH01A

Date Collected: 03/06/23 10:00 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/16/23 09:41	03/17/23 01:07	

Eurofins Carlsbad

Lab Sample ID: 890-4243-2

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Matrix: Solid

Lab Sample ID: 890-4243-2

Client Sample Results

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH01A

Date Collected: 03/06/23 10:00 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Method: SW846 8021B	- Volatile Organic	Compounds (GC	(Continued)
Method. 344040 002 1D	- voiatile Organic	Compounds (GC)	(Continueu)

Surrogate	%Recovery (Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	03/16/23 09:41	03/17/23 01:07	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/19/23 17:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		_	03/13/23 15:13	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

		(,	(/								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 12:02	1			
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 12:02	1			
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 12:02	1			
Surrogato	% Pocovory	Qualifier	Limite			Propared	Analyzod	Dil Esc			

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102	70 - 130	03/09/23 10:55	03/10/23 12:02	1
o-Terphenyl	111	70 - 130	03/09/23 10:55	03/10/23 12:02	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1	4.98	mg/Kg			03/10/23 08:11	1

Client Sample ID: BH02 Lab Sample ID: 890-4243-3

Date Collected: 03/06/23 10:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

1,4-Difluorobenzene (Surr)

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

Method. Syvoto 002 ID - Volat	ne Organic Comp	ounus (OC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 01:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130			03/16/23 09:41	03/17/23 01:28	1

Mothod: TAI	SOP Total RTEY	- Total BTFX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/19/23 17:50	1

70 - 130

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/13/23 15:13	1

Eurofins Carlsbad

03/17/23 01:28

03/16/23 09:41

2

3

5

7

9

11

4.0

1 4

Matrix: Solid

Lab Sample ID: 890-4243-3

03/10/23 08:30

Job ID: 890-4243-1

Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH02

Date Collected: 03/06/23 10:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:24	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:24	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			03/09/23 10:55	03/10/23 12:24	1
o-Terphenyl	114		70 - 130			03/09/23 10:55	03/10/23 12:24	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH02A Lab Sample ID: 890-4243-4 Date Collected: 03/06/23 10:20 Matrix: Solid

4.97

mg/Kg

36.7

Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 01:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/16/23 09:41	03/17/23 01:48	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/16/23 09:41	03/17/23 01:48	1
Method: TAL SOP Total BTEX - T Analyte Total BTEX		Qualifier	RL 0.00399	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/19/23 17:50	Dil Fac
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (GC)	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9		49.9	mg/Kg	— <u>-</u>		03/13/23 15:13	1
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:46	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 12:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/09/23 10:55	03/10/23 12:46	1
o-Terphenyl	112		70 - 130			03/09/23 10:55	03/10/23 12:46	1

Eurofins Carlsbad

3/20/2023

Job ID: 890-4243-1

Lab Sample ID: 890-4243-4

Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH02A

Date Collected: 03/06/23 10:20 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.6		4.96	mg/Kg			03/10/23 08:36	1

Client Sample ID: BH03 Lab Sample ID: 890-4243-5 Matrix: Solid

Date Collected: 03/06/23 10:30 Date Received: 03/06/23 15:14

Method: SW846 8021B - Volatile	•	• •		1114	_	Burnand	A	D:: F
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene 	<0.00201		0.00201	mg/Kg		03/16/23 09:41	03/17/23 02:09	•
Toluene	<0.00201		0.00201	mg/Kg		03/16/23 09:41	03/17/23 02:09	1
Ethylbenzene	<0.00201		0.00201	mg/Kg		03/16/23 09:41	03/17/23 02:09	1
m-Xylene & p-Xylene	<0.00402		0.00402	mg/Kg		03/16/23 09:41	03/17/23 02:09	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/16/23 09:41	03/17/23 02:09	•
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/16/23 09:41	03/17/23 02:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/16/23 09:41	03/17/23 02:09	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/16/23 09:41	03/17/23 02:09	1
Method: TAL SOP Total BTEX -	Total BTEX Cald	culation						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	11	0.00402				03/19/23 17:50	
Method: SW846 8015 NM - Diese	el Range Organ	ics (DRO) (GC)	mg/Kg				
• •	el Range Organ			mg/Kg Unit	D	Prepared	Analyzed	
: Method: SW846 8015 NM - Diese	el Range Organ Result	ics (DRO) (GC)		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH	el Range Organ Result <49.9	ics (DRO) (Gualifier	RL 49.9	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Gualifier	RL 49.9	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics	el Range Organ Result <49.9 sel Range Organ	ics (DRO) (Qualifier U	RL 49.9 (GC)	Unit mg/Kg			Analyzed 03/13/23 15:13	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10	el Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) (Qualifier U unics (DRO) Qualifier U	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	el Range Organ Result <49.9 sel Range Organ Result	ics (DRO) (Qualifier U unics (DRO) Qualifier U	RL 49.9 (GC)	Unit mg/Kg		Prepared	Analyzed 03/13/23 15:13 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	el Range Organ Result 49.9 sel Range Orga Result <49.9	ics (DRO) (Control of the Control of	(GC) RL 49.9 (GC) RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	el Range Organ Result 49.9 sel Range Orga Result 49.9 449.9 449.9	ics (DRO) (Control of the Control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) (Control of the Control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09 03/10/23 13:09 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 97	ics (DRO) (Control of the Control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09 Analyzed 03/10/23 13:09	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery	ics (DRO) (Control of the Control of	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09 03/10/23 13:09 Analyzed	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 97 107 n Chromatograp	ics (DRO) (Qualifier U unics (DRO) Qualifier U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09 Analyzed 03/10/23 13:09	Dil Fac
Method: SW846 8015 NM - Diese Analyte Total TPH Method: SW846 8015B NM - Die Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	el Range Organ Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9 %Recovery 97 107 n Chromatograp	ics (DRO) (Qualifier U unics (DRO) Qualifier U U Qualifier	GC) RL 49.9 (GC) RL 49.9 49.9 49.9 Limits 70 - 130 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	Analyzed 03/13/23 15:13 Analyzed 03/10/23 13:09 03/10/23 13:09 Analyzed 03/10/23 13:09	Dil Fac

Lab Sample ID: 890-4243-6

Client: Ensolum Job ID: 890-4243-1

Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH03A Date Collected: 03/06/23 10:40

Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/16/23 09:41	03/17/23 02:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			03/16/23 09:41	03/17/23 02:29	1
1,4-Difluorobenzene (Surr)	89		70 - 130			03/16/23 09:41	03/17/23 02:29	1
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/19/23 17:50	1
Method: SW846 8015 NM - Diese			•		_			
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/13/23 15:13	
Analyte	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U	50.0		<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <50.0	Qualifier Unics (DRO) Qualifier	RL 50.0	mg/Kg			03/13/23 15:13	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <50.0 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC)	mg/Kg		Prepared	03/13/23 15:13 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 sel Range Orga Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 13:32	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0	Qualifier U nics (DRO) Qualifier U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 13:32 03/10/23 13:32	Dil Fac 1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 13:32 03/10/23 13:32	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <50.0	Qualifier U nics (DRO) Qualifier U U	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared	03/13/23 15:13 Analyzed 03/10/23 13:32 03/10/23 13:32 03/10/23 13:32 Analyzed	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <50.0	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 13:32 03/10/23 13:32 Analyzed 03/10/23 13:32	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U nics (DRO) Qualifier U U Qualifier	RL 50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/09/23 10:55 03/09/23 10:55 03/09/23 10:55 Prepared 03/09/23 10:55	03/13/23 15:13 Analyzed 03/10/23 13:32 03/10/23 13:32 Analyzed 03/10/23 13:32	Dil Fac Dil Fac 1 Dil Fac 1 Dil Fac 1 Dil Fac

Client Sample ID: BH04 Lab Sample ID: 890-4243-7

Date Collected: 03/06/23 10:50 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 02:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/16/23 09:41	03/17/23 02:49	

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Matrix: Solid

Client Sample Results

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH04 Lab Sample ID: 890-4243-7

Date Collected: 03/06/23 10:50 Matrix: Solid Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Method: SW846 8021B	Volatile Organi	c Compounds	(GC)	(Continued)	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	91	70 - 130	03/16/23 09:41	03/17/23 02:49	1

Method: TAI	SOP Total BTFX -	- Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398 U	0.00398	ma/Ka			03/19/23 17:50	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			03/13/23 15:13	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

		(=::=)	()					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 13:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 13:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 13:53	1
Surrogato	%Pacayany	Qualifier	l imite			Propared	Analyzod	Dil Eac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130	03/09/23 10:55	03/10/23 13:53	1
o-Terphenyl	105		70 - 130	03/09/23 10:55	03/10/23 13:53	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	147		4.95	mg/Kg			03/10/23 08:55	1

Client Sample ID: BH04A Lab Sample ID: 890-4243-8

Date Collected: 03/06/23 11:00 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

н	Method: SW846 803	04D V-1-41-	O	
н	METHOD: SWX46 XII	71B - VOIATIIE	Organic Comp	Allinas (Gal.)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 03:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			03/16/23 09:41	03/17/23 03:10	1
4.4.Diff	00		70 400			00/40/00 00:44	00/47/00 00:40	

4-Bromofluorobenzene (Surr)	106	70 - 130	03/16/23 09:41 03/17	7/23 03:10 1
1,4-Difluorobenzene (Surr)	90	70 - 130	03/16/23 09:41 03/17	7/23 03:10 1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00398	U	0.00398	ma/Ka			03/19/23 17:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/13/23 15:13	1

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Matrix: Solid

Lab Sample ID: 890-4243-8

03/10/23 09:01

Client Sample Results

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH04A

Date Collected: 03/06/23 11:00 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:16	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			03/09/23 10:55	03/10/23 14:16	1
o-Terphenyl	102		70 - 130			03/09/23 10:55	03/10/23 14:16	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH05

Date Collected: 03/06/23 11:10

Lab Sample ID: 890-4243-9

Matrix: Solid

103

4.97

mg/Kg

Date Collected: 03/06/23 11:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 03:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130			03/16/23 09:41	03/17/23 03:30	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/16/23 09:41	03/17/23 03:30	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/19/23 17:50	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/13/23 15:13	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	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:37	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:37	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			03/09/23 10:55	03/10/23 14:37	1
o-Terphenyl	108		70 - 130			03/09/23 10:55	03/10/23 14:37	1

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Lab Sample ID: 890-4243-9

Job ID: 890-4243-1

Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: BH05

Date Collected: 03/06/23 11:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Cl	hromatograp	hy - Solubl	е					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		4.97	mg/Kg			03/10/23 09:07	1

Client Sample ID: BH05A Lab Sample ID: 890-4243-10 Matrix: Solid

Date Collected: 03/06/23 11:20 Date Received: 03/06/23 15:14

Sample Depth: 1.0'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:51	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:51	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 03:51	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 03:51	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/16/23 09:41	03/17/23 03:51	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130			03/16/23 09:41	03/17/23 03:51	1
1,4-Difluorobenzene (Surr)	90		70 - 130			03/16/23 09:41	03/17/23 03:51	1
· Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/19/23 17:50	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/13/23 15:13	Dil Fac
Total TPH : :	<49.9	U	49.9	mg/Kg			03/13/23 15:13	1
Method: SW846 8015B NM - Dies			• •		_			B.: E
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:00	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			03/09/23 10:55	03/10/23 15:00	1
o-Terphenyl	106		70 - 130			03/09/23 10:55	03/10/23 15:00	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Pocult	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Allalyte		Quantici	4.99	mg/Kg		Порагса	Analyzea	Diriac

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Client Sample Results

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: SS01 Lab Sample ID: 890-4243-11

Date Collected: 03/06/23 09:05
Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
Toluene	< 0.00199	U	0.00199	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
Ethylbenzene	0.00898		0.00199	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
m-Xylene & p-Xylene	0.00922		0.00398	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
o-Xylene	0.00586		0.00199	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
Xylenes, Total	0.0151		0.00398	mg/Kg		03/16/23 09:41	03/17/23 05:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		70 - 130			03/16/23 09:41	03/17/23 05:41	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/16/23 09:41	03/17/23 05:41	1
- Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0241		0.00398	mg/Kg			03/19/23 17:50	1
Mothod: SW946 9045 NM Dioc	al Banga Organ	ica (DBO) (20)					
Method: SW846 8015 NM - Diese Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			49.9	mg/Kg		Trepareu	03/13/23 15:13	1
-	~49.9	U	49.9	mg/Kg			03/13/23 13.13	
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:44	1
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:44	1
C10 C20)				3 3				
C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/09/23 10:55	03/10/23 15:44	1
,	<49.9		49.9 <i>Limits</i>			03/09/23 10:55 Prepared	03/10/23 15:44 Analyzed	•
Oll Range Organics (Over C28-C36)								Dil Fac
Oll Range Organics (Over C28-C36) Surrogate	%Recovery		Limits			Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	%Recovery 104 106	Qualifier	Limits 70 - 130 70 - 130			Prepared 03/09/23 10:55	Analyzed 03/10/23 15:44	Dil Fac
Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 104 106 Chromatograp	Qualifier	Limits 70 - 130 70 - 130		D	Prepared 03/09/23 10:55	Analyzed 03/10/23 15:44	Dil Fac

Client Sample ID: SS02 Lab Sample ID: 890-4243-12

Date Collected: 03/06/23 09:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/16/23 09:41	03/17/23 06:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/16/23 09:41	03/17/23 06:01	

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Matrix: Solid

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126 **Client Sample ID: SS02** Lab Sample ID: 890-4243-12

Date Collected: 03/06/23 09:10 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Method: SW846 8021E	: - Volatile Organic	Compounds ((GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90	70 - 130	03/16/23 09:41	03/17/23 06:01	1

Method: TAI	SOP Total BTEX	- Total BTFX	Calculation
Mictilou. IAL	- OOI TOTAL DIEA	- IOIGI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/19/23 17:50	1

Method: SW846 8015 NM - Diesel Range Organics (DR	
	Organica (DDO) (CC)
	Ordanics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		_	03/13/23 15:13	1

	Mothod: SW046 904ED NM Diocol Dan	go Organico (DBO) (CC)	v
ı	Method: SW846 8015B NM - Diesel Ran	ge Organics (DRO) (GC)	,

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 16:07	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 16:07	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/09/23 10:55	03/10/23 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	94	70 - 130	03/09/23 10:55	03/10/23 16:07	1
o-Terphenyl	106	70 - 130	03/09/23 10:55	03/10/23 16:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	155	4.99	mg/Kg			03/09/23 23:34	1

Client Sample ID: SS03 Lab Sample ID: 890-4243-13 Matrix: Solid

Date Collected: 03/06/23 09:15 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Method: SW846 8021B -	M-1-4!1- O	0 (00)

incured critical course	no organio comp	Julius (Ju	,					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/16/23 09:41	03/17/23 06:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	78		70 - 130			03/16/23 09:41	03/17/23 06:21	1
1 4 Diffuorabanzana (Surr)	00		70 120			02/16/22 00:41	02/17/22 06:21	1

4-Bromofluorobenzene (Surr)	78	70 - 130	03/16/23 09:41	03/17/23 06:21	1
1,4-Difluorobenzene (Surr)	88	70 - 130	03/16/23 09:41	03/17/23 06:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	ma/Ka			03/19/23 17:50	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/10/23 17:58	1

Client Sample Results

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: SS03

Da Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Client Sample ID: SS03	Lab Sample ID: 890-4243-13
Pate Collected: 03/06/23 09:15	Matrix: Solid

Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 18:48	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 18:48	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 18:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	103		70 - 130			03/08/23 17:08	03/09/23 18:48	1
o-Terphenyl	100		70 - 130			03/08/23 17:08	03/09/23 18:48	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	le					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	45.6		4.98	mg/Kg			03/09/23 23:40	1

Lab Sample ID: 890-4243-14 **Client Sample ID: SS04** Matrix: Solid

Date Collected: 03/06/23 09:20 Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/16/23 09:41	03/17/23 06:42	
Toluene	<0.00202	U	0.00202	mg/Kg		03/16/23 09:41	03/17/23 06:42	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/16/23 09:41	03/17/23 06:42	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/16/23 09:41	03/17/23 06:42	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/16/23 09:41	03/17/23 06:42	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/16/23 09:41	03/17/23 06:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130			03/16/23 09:41	03/17/23 06:42	1
1,4-Difluorobenzene (Surr)	92		70 - 130			03/16/23 09:41	03/17/23 06:42	1
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/19/23 17:50	1
Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Method: SW846 8015 NM - Diese Analyte		ics (DRO) (Qualifier	GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
		Qualifier	•	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/10/23 17:58	Dil Fac
Analyte	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared		
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9		<u>D</u>	Prepared Prepared		
Analyte Total TPH Method: SW846 8015B NM - Dies	Result <49.9	Qualifier U nics (DRO) Qualifier	RL 49.9 (GC)	mg/Kg			03/10/23 17:58	1
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	Result <49.9 sel Range Orga Result	Qualifier U nics (DRO) Qualifier U	RL 49.9 (GC)	mg/Kg		Prepared	03/10/23 17:58 Analyzed	1 Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9 sel Range Orga Result <49.9	Qualifier U nics (DRO) Qualifier U	(GC) RL 49.9	mg/Kg Unit mg/Kg		Prepared 03/08/23 17:08	03/10/23 17:58 Analyzed 03/09/23 19:08	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/08/23 17:08 03/08/23 17:08	03/10/23 17:58 Analyzed 03/09/23 19:08 03/09/23 19:08	Dil Fac
Analyte Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 sel Range Orga Result <49.9 <49.9 <49.9	Qualifier U nics (DRO) Qualifier U U	RL 49.9 (GC) RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/08/23 17:08 03/08/23 17:08 03/08/23 17:08	03/10/23 17:58 Analyzed 03/09/23 19:08 03/09/23 19:08	1 Dil Fac

Client Sample Results

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

Client Sample ID: SS04

Lab Sample ID: 890-4243-14

Date Collected: 03/06/23 09:20 Matrix: Solid
Date Received: 03/06/23 15:14

Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	53.2		5.05	mg/Kg			03/09/23 23:46	1

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Surrogate Summary

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4243-1	BH01	101	85	
890-4243-1 MS	BH01	109	100	
890-4243-1 MSD	BH01	105	94	
890-4243-2	BH01A	101	90	
890-4243-3	BH02	98	77	
890-4243-4	BH02A	104	92	
890-4243-5	BH03	102	92	
890-4243-6	ВН03А	87	89	
890-4243-7	BH04	107	91	
890-4243-8	BH04A	106	90	
890-4243-9	BH05	91	90	
890-4243-10	BH05A	72	90	
890-4243-11	SS01	87	95	
890-4243-12	SS02	100	90	
890-4243-13	SS03	78	88	
890-4243-14	SS04	76	92	
LCS 880-48725/1-A	Lab Control Sample	103	99	
LCSD 880-48725/2-A	Lab Control Sample Dup	106	85	
MB 880-48321/5-A	Method Blank	94	85	
MB 880-48725/5-A	Method Blank	92	88	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4242-A-1-B MS	Matrix Spike	114	98	
890-4242-A-1-C MSD	Matrix Spike Duplicate	113	96	
890-4243-1	BH01	97	107	
890-4243-1 MS	BH01	105	107	
890-4243-1 MSD	BH01	103	106	
890-4243-2	BH01A	102	111	
890-4243-3	BH02	111	114	
890-4243-4	BH02A	100	112	
890-4243-5	BH03	97	107	
890-4243-6	ВН03А	99	110	
890-4243-7	BH04	96	105	
890-4243-8	BH04A	89	102	
890-4243-9	BH05	105	108	
890-4243-10	BH05A	93	106	
890-4243-11	SS01	104	106	
890-4243-12	SS02	94	106	
890-4243-13	SS03	103	100	
890-4243-14	SS04	113	114	
LCS 880-48166/2-A	Lab Control Sample	108	102	

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Surrogate Summary

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2024126

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-48202/2-A	Lab Control Sample	102	111	
LCSD 880-48166/3-A	Lab Control Sample Dup	102	97	
LCSD 880-48202/3-A	Lab Control Sample Dup	91	103	
MB 880-48166/1-A	Method Blank	143 S1+	147 S1+	
MB 880-48202/1-A	Method Blank	158 S1+	163 S1+	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-48321/5-A

Analysis Batch: 48708

Matrix: Solid

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

Prep Batch: 48321

MB MB Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Benzene <0.00200 U 0.00200 mg/Kg 03/10/23 12:38 03/16/23 12:20 Toluene <0.00200 U 0.00200 mg/Kg 03/10/23 12:38 03/16/23 12:20 Ethylbenzene <0.00200 U 0.00200 03/10/23 12:38 03/16/23 12:20 mg/Kg <0.00400 U 03/10/23 12:38 03/16/23 12:20 m-Xylene & p-Xylene 0.00400 mg/Kg o-Xylene <0.00200 U 0.00200 mg/Kg 03/10/23 12:38 03/16/23 12:20 Xylenes, Total <0.00400 U 0.00400 03/10/23 12:38 03/16/23 12:20 mg/Kg

MB MB

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94	70 - 130	03/10/23 12:38	03/16/23 12:20	1
1,4-Difluorobenzene (Surr)	85	70 - 130	03/10/23 12:38	03/16/23 12:20	1

Lab Sample ID: MB 880-48725/5-A

Matrix: Solid

Analysis Batch: 48708

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

Prep Batch: 48725

	IND	14.15						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 00:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 00:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 00:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/16/23 09:41	03/17/23 00:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/16/23 09:41	03/17/23 00:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/16/23 09:41	03/17/23 00:18	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130	03/16/23 09	03/17/23 00:18	1
1,4-Difluorobenzene (Surr)	88		70 - 130	03/16/23 09	9:41 03/17/23 00:18	1

Lab Sample ID: LCS 880-48725/1-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 48725

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08158		mg/Kg		82	70 - 130	
Toluene	0.100	0.08444		mg/Kg		84	70 - 130	
Ethylbenzene	0.100	0.08116		mg/Kg		81	70 - 130	
m-Xylene & p-Xylene	0.200	0.1669		mg/Kg		83	70 - 130	
o-Xylene	0.100	0.08621		mg/Kg		86	70 - 130	

LCS LCS

Surrogate	%Recovery C	ualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1.4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-48725/2-A

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: Lab	Control Sample Dup
	Dren Trees Total/NA

Prep Type: Total/NA

Prep Batch: 48725

	Spike	LCSD LCSD				%Rec		RPD
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07569	mg/Kg		76	70 - 130	7	35

Client: Ensolum Job ID: 890-4243-1 SDG: 03D2024126 Project/Site: Wild Cobra 1 State 002H

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

Lab Sample ID: LCSD 880-48725/2-A **Matrix: Solid**

Analysis Batch: 48708

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 48725

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09026		mg/Kg		90	70 - 130	7	35
Ethylbenzene	0.100	0.08849		mg/Kg		88	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1820		mg/Kg		91	70 - 130	9	35
o-Xylene	0.100	0.09232		mg/Kg		92	70 - 130	7	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	85		70 - 130

Lab Sample ID: 890-4243-1 MS

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: BH01 Prep Type: Total/NA

Prep Batch: 48725

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U F2 F1	0.100	0.08674		mg/Kg		86	70 - 130	
Toluene	<0.00202	U F1	0.100	0.08774		mg/Kg		87	70 - 130	
Ethylbenzene	<0.00202	U F1	0.100	0.08400		mg/Kg		84	70 - 130	
m-Xylene & p-Xylene	<0.00403	U F1	0.201	0.1706		mg/Kg		85	70 - 130	
o-Xylene	<0.00202	U F1	0.100	0.08652		mg/Kg		86	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	109	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-4243-1 MSD

Matrix: Solid

Analysis Batch: 48708

Client Sample ID: BH01

Prep Type: Total/NA

Prep Batch: 48725

7 mary ord Datom 101 00											
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U F2 F1	0.0990	0.05865	F2 F1	mg/Kg		59	70 - 130	39	35
Toluene	<0.00202	U F1	0.0990	0.06162	F1	mg/Kg		62	70 - 130	35	35
Ethylbenzene	<0.00202	U F1	0.0990	0.06348	F1	mg/Kg		64	70 - 130	28	35
m-Xylene & p-Xylene	<0.00403	U F1	0.198	0.1298	F1	mg/Kg		66	70 - 130	27	35
o-Xylene	<0.00202	U F1	0.0990	0.06675	F1	mg/Kg		67	70 - 130	26	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-48166/1-A

Matrix: Solid

Analysis Batch: 48177

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

Prep Batch: 48166

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1
(GRO)-C6-C10								

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

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

Lab Sample ID: MB 880-48166/1-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 48166

	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		03/08/23 17:08	03/09/23 08:37	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/08/23 17:08	03/09/23 08:37	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	143	S1+	70 - 130			03/08/23 17:08	03/09/23 08:37	1
o-Terphenyl	147	S1+	70 - 130			03/08/23 17:08	03/09/23 08:37	1

Lab Sample ID: LCS 880-48166/2-A Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Analysis Batch: 48177 Prep Batch: 48166 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 943.7 94 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1105 mg/Kg 110 70 - 130 C10-C28) LCS LCS Qualifier Limits Surrogate %Recovery 1-Chlorooctane 108 70 - 130 o-Terphenyl 102 70 - 130

Lab Sample ID: LCSD 880-48166/3-A

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 48166

	Spike	LCSD	LCSD				%Rec		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	997.4		mg/Kg		100	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1050		mg/Kg		105	70 - 130	5	20
C10-C28)									

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	97		70 - 130

Lab Sample ID: 890-4242-A-1-B MS

Matrix: Solid

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

Analysis Batch: 48177

Sample Sample Spike MS MS

Rep Type: Total NA
Prep Batch: 48166

Rec

	Sample	Sample	Spike	IVIO	IVIO				70KeC		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1118		mg/Kg		109	70 - 130		-
Diesel Range Organics (Over C10-C28)	<49.9	U	998	936.0		mg/Kg		91	70 - 130		
	MS	MS									

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	114		70 - 130
o-Terphenyl	98		70 - 130

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Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

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

Lab Sample ID: 890-4242-A-1-C MSD

Matrix: Solid

Analysis Batch: 48177

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 48166

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	1082		mg/Kg		105	70 - 130	3	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	922.0		mg/Kg		90	70 - 130	2	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	113		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: MB 880-48202/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 48272

Prep Type: Total/NA

Prep Batch: 48202

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac <50.0 U 50.0 03/09/23 10:55 03/10/23 08:23 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/09/23 10:55 03/10/23 08:23 OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 03/09/23 10:55 03/10/23 08:23

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	158	S1+	70 - 130	03/09/23 10:55	03/10/23 08:23	1
o-Terphenyl	163	S1+	70 - 130	03/09/23 10:55	03/10/23 08:23	1

Lab Sample ID: LCS 880-48202/2-A

Matrix: Solid

Analysis Batch: 48272

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 48202

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1110		mg/Kg		111	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1132		mg/Kg		113	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	102	70 - 130
o-Terphenyl	111	70 - 130

Lab Sample ID: LCSD 880-48202/3-A

Matrix: Solid

Analysis Batch: 48272

Client San	iple ID: Lal	Control	Sample	Dup
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Prep Type: Total/NA

Prep Batch: 48202

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	965.1		mg/Kg		97	70 - 130	14	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1032		mg/Kg		103	70 - 130	9	20	
C10-C28)										

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

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

LCSD LCSD

Lab Sample ID: LCSD 880-48202/3-A

Matrix: Solid

Analysis Batch: 48272

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 48202

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 91 70 - 130 o-Terphenyl 103 70 - 130

Lab Sample ID: 890-4243-1 MS Client Sample ID: BH01

Matrix: Solid

Analysis Batch: 48272

Prep Type: Total/NA Prep Batch: 48202

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	1007		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1011		mg/Kg		101	70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	107		70 - 130

Lab Sample ID: 890-4243-1 MSD **Client Sample ID: BH01**

Matrix: Solid

Analysis Batch: 48272

Prep Type: Total/NA Prep Batch: 48202

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	999	1045		mg/Kg		102	70 - 130	4	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	999	991.9		mg/Kg		99	70 - 130	2	20	
C10-C28)												

MSD MSD %Recovery Qualifier Surrogate

Limits 70 - 130 1-Chlorooctane 103 70 - 130 o-Terphenyl 106

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-48186/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 48242

мв мв Dil Fac Analyte Result Qualifier RL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/10/23 06:02

Lab Sample ID: LCS 880-48186/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48242

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	266.9		mg/Kg		107	90 - 110	

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3/20/2023

Job ID: 890-4243-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-48186/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 48242

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 266.0 mg/Kg 106 90 - 110 20

Lab Sample ID: 890-4242-A-11-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 48242

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 73.1 F1 248 315.8 mg/Kg 98 90 - 110

Lab Sample ID: 890-4242-A-11-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 48242

MSD MSD RPD Spike %Rec Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride F1 198 316.7 F1 73 1 mg/Kg 123 90 - 110

Lab Sample ID: MB 880-48204/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

мв мв

Result Qualifier Analyte RL Unit Prepared Analyzed Dil Fac 5.00 mg/Kg Chloride <5.00 03/09/23 22:51

Lab Sample ID: LCS 880-48204/2-A Client Sample ID: Lab Control Sample **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

LCS LCS Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-48204/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

Spike LCSD LCSD %Rec Added RPD Analyte Result Qualifier Unit D %Rec Limits Limit Chloride 250 253.2 mg/Kg 101 90 - 110

Lab Sample ID: 890-4243-10 MS Client Sample ID: BH05A

Matrix: Solid

Analysis Batch: 48263

MS MS Sample Sample Spike %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit D %Rec Chloride 116 250 388.4 mg/Kg 109 90 - 110

Lab Sample ID: 890-4243-10 MSD Client Sample ID: BH05A **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 48263

Released to Imaging: 7/28/2023 1:45:54 PM

Spike MSD MSD %Rec RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 116 250 388.0 mg/Kg 109 90 - 110 20

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RPD

Prep Type: Soluble

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1

SDG: 03D2024126

GC VOA

Prep Batch: 48321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-48321/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 48708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	8021B	48725
890-4243-2	BH01A	Total/NA	Solid	8021B	48725
890-4243-3	BH02	Total/NA	Solid	8021B	48725
890-4243-4	BH02A	Total/NA	Solid	8021B	48725
890-4243-5	BH03	Total/NA	Solid	8021B	48725
890-4243-6	ВН03А	Total/NA	Solid	8021B	48725
890-4243-7	BH04	Total/NA	Solid	8021B	48725
890-4243-8	BH04A	Total/NA	Solid	8021B	48725
890-4243-9	BH05	Total/NA	Solid	8021B	48725
890-4243-10	BH05A	Total/NA	Solid	8021B	48725
890-4243-11	SS01	Total/NA	Solid	8021B	48725
890-4243-12	SS02	Total/NA	Solid	8021B	48725
890-4243-13	SS03	Total/NA	Solid	8021B	48725
890-4243-14	SS04	Total/NA	Solid	8021B	48725
MB 880-48321/5-A	Method Blank	Total/NA	Solid	8021B	48321
MB 880-48725/5-A	Method Blank	Total/NA	Solid	8021B	48725
LCS 880-48725/1-A	Lab Control Sample	Total/NA	Solid	8021B	48725
LCSD 880-48725/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	48725
890-4243-1 MS	BH01	Total/NA	Solid	8021B	48725
890-4243-1 MSD	BH01	Total/NA	Solid	8021B	48725

Prep Batch: 48725

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	5035	
890-4243-2	BH01A	Total/NA	Solid	5035	
890-4243-3	BH02	Total/NA	Solid	5035	
890-4243-4	BH02A	Total/NA	Solid	5035	
890-4243-5	BH03	Total/NA	Solid	5035	
890-4243-6	BH03A	Total/NA	Solid	5035	
890-4243-7	BH04	Total/NA	Solid	5035	
890-4243-8	BH04A	Total/NA	Solid	5035	
890-4243-9	BH05	Total/NA	Solid	5035	
890-4243-10	BH05A	Total/NA	Solid	5035	
890-4243-11	SS01	Total/NA	Solid	5035	
890-4243-12	SS02	Total/NA	Solid	5035	
890-4243-13	SS03	Total/NA	Solid	5035	
890-4243-14	SS04	Total/NA	Solid	5035	
MB 880-48725/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-48725/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-48725/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4243-1 MS	BH01	Total/NA	Solid	5035	
890-4243-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 48939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	Total BTEX	
890-4243-2	BH01A	Total/NA	Solid	Total BTEX	

Client: Ensolum Job ID: 890-4243-1 Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

GC VOA (Continued)

Analysis Batch: 48939 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-3	BH02	Total/NA	Solid	Total BTEX	
890-4243-4	BH02A	Total/NA	Solid	Total BTEX	
890-4243-5	BH03	Total/NA	Solid	Total BTEX	
890-4243-6	ВН03А	Total/NA	Solid	Total BTEX	
890-4243-7	BH04	Total/NA	Solid	Total BTEX	
890-4243-8	BH04A	Total/NA	Solid	Total BTEX	
890-4243-9	BH05	Total/NA	Solid	Total BTEX	
890-4243-10	BH05A	Total/NA	Solid	Total BTEX	
890-4243-11	SS01	Total/NA	Solid	Total BTEX	
890-4243-12	SS02	Total/NA	Solid	Total BTEX	
890-4243-13	SS03	Total/NA	Solid	Total BTEX	
890-4243-14	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 48166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-13	SS03	Total/NA	Solid	8015NM Prep	
890-4243-14	SS04	Total/NA	Solid	8015NM Prep	
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4242-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4242-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48177

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-13	SS03	Total/NA	Solid	8015B NM	48166
890-4243-14	SS04	Total/NA	Solid	8015B NM	48166
MB 880-48166/1-A	Method Blank	Total/NA	Solid	8015B NM	48166
LCS 880-48166/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48166
LCSD 880-48166/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48166
890-4242-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	48166
890-4242-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	48166

Prep Batch: 48202

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	8015NM Prep	
890-4243-2	BH01A	Total/NA	Solid	8015NM Prep	
890-4243-3	BH02	Total/NA	Solid	8015NM Prep	
890-4243-4	BH02A	Total/NA	Solid	8015NM Prep	
890-4243-5	BH03	Total/NA	Solid	8015NM Prep	
890-4243-6	BH03A	Total/NA	Solid	8015NM Prep	
890-4243-7	BH04	Total/NA	Solid	8015NM Prep	
390-4243-8	BH04A	Total/NA	Solid	8015NM Prep	
890-4243-9	BH05	Total/NA	Solid	8015NM Prep	
890-4243-10	BH05A	Total/NA	Solid	8015NM Prep	
890-4243-11	SS01	Total/NA	Solid	8015NM Prep	
890-4243-12	SS02	Total/NA	Solid	8015NM Prep	
MB 880-48202/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-48202/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

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Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1 SDG: 03D2024126

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GC Semi VOA (Continued)

Prep Batch: 48202 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-48202/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4243-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-4243-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 48272

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	8015B NM	48202
890-4243-2	BH01A	Total/NA	Solid	8015B NM	48202
890-4243-3	BH02	Total/NA	Solid	8015B NM	48202
890-4243-4	BH02A	Total/NA	Solid	8015B NM	48202
890-4243-5	BH03	Total/NA	Solid	8015B NM	48202
890-4243-6	BH03A	Total/NA	Solid	8015B NM	48202
890-4243-7	BH04	Total/NA	Solid	8015B NM	48202
890-4243-8	BH04A	Total/NA	Solid	8015B NM	48202
890-4243-9	BH05	Total/NA	Solid	8015B NM	48202
890-4243-10	BH05A	Total/NA	Solid	8015B NM	48202
890-4243-11	SS01	Total/NA	Solid	8015B NM	48202
890-4243-12	SS02	Total/NA	Solid	8015B NM	48202
MB 880-48202/1-A	Method Blank	Total/NA	Solid	8015B NM	48202
LCS 880-48202/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	48202
LCSD 880-48202/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	48202
890-4243-1 MS	BH01	Total/NA	Solid	8015B NM	48202
890-4243-1 MSD	BH01	Total/NA	Solid	8015B NM	48202

Analysis Batch: 48375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Total/NA	Solid	8015 NM	
890-4243-2	BH01A	Total/NA	Solid	8015 NM	
890-4243-3	BH02	Total/NA	Solid	8015 NM	
890-4243-4	BH02A	Total/NA	Solid	8015 NM	
890-4243-5	BH03	Total/NA	Solid	8015 NM	
890-4243-6	ВН03А	Total/NA	Solid	8015 NM	
890-4243-7	BH04	Total/NA	Solid	8015 NM	
890-4243-8	BH04A	Total/NA	Solid	8015 NM	
890-4243-9	BH05	Total/NA	Solid	8015 NM	
890-4243-10	BH05A	Total/NA	Solid	8015 NM	
890-4243-11	SS01	Total/NA	Solid	8015 NM	
890-4243-12	SS02	Total/NA	Solid	8015 NM	
890-4243-13	SS03	Total/NA	Solid	8015 NM	
890-4243-14	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 48186

Lab Sample ID 890-4243-1	Client Sample ID BH01	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
890-4243-2	BH01A	Soluble	Solid	DI Leach	
890-4243-3	BH02	Soluble	Solid	DI Leach	
890-4243-4	BH02A	Soluble	Solid	DI Leach	
890-4243-5	BH03	Soluble	Solid	DI Leach	
890-4243-6	ВН03А	Soluble	Solid	DI Leach	

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1 SDG: 03D2024126

HPLC/IC (Continued)

Leach Batch: 48186 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-7	BH04	Soluble	Solid	DI Leach	
890-4243-8	BH04A	Soluble	Solid	DI Leach	
890-4243-9	BH05	Soluble	Solid	DI Leach	
MB 880-48186/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48186/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48186/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4242-A-11-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4242-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 48204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-10	BH05A	Soluble	Solid	DI Leach	_
890-4243-11	SS01	Soluble	Solid	DI Leach	
890-4243-12	SS02	Soluble	Solid	DI Leach	
890-4243-13	SS03	Soluble	Solid	DI Leach	
890-4243-14	SS04	Soluble	Solid	DI Leach	
MB 880-48204/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-48204/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-48204/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4243-10 MS	BH05A	Soluble	Solid	DI Leach	
890-4243-10 MSD	BH05A	Soluble	Solid	DI Leach	

Analysis Batch: 48242

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-1	BH01	Soluble	Solid	300.0	48186
890-4243-2	BH01A	Soluble	Solid	300.0	48186
890-4243-3	BH02	Soluble	Solid	300.0	48186
890-4243-4	BH02A	Soluble	Solid	300.0	48186
890-4243-5	BH03	Soluble	Solid	300.0	48186
890-4243-6	BH03A	Soluble	Solid	300.0	48186
890-4243-7	BH04	Soluble	Solid	300.0	48186
890-4243-8	BH04A	Soluble	Solid	300.0	48186
890-4243-9	BH05	Soluble	Solid	300.0	48186
MB 880-48186/1-A	Method Blank	Soluble	Solid	300.0	48186
LCS 880-48186/2-A	Lab Control Sample	Soluble	Solid	300.0	48186
LCSD 880-48186/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48186
890-4242-A-11-C MS	Matrix Spike	Soluble	Solid	300.0	48186
890-4242-A-11-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	48186

Analysis Batch: 48263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4243-10	BH05A	Soluble	Solid	300.0	48204
890-4243-11	SS01	Soluble	Solid	300.0	48204
890-4243-12	SS02	Soluble	Solid	300.0	48204
890-4243-13	SS03	Soluble	Solid	300.0	48204
890-4243-14	SS04	Soluble	Solid	300.0	48204
MB 880-48204/1-A	Method Blank	Soluble	Solid	300.0	48204
LCS 880-48204/2-A	Lab Control Sample	Soluble	Solid	300.0	48204
LCSD 880-48204/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	48204
890-4243-10 MS	BH05A	Soluble	Solid	300.0	48204
890-4243-10 MSD	BH05A	Soluble	Solid	300.0	48204

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1 SDG: 03D2024126

Lab Sample ID: 890-4243-1

Matrix: Solid

Date Collected: 03/06/23 09:50 Date Received: 03/06/23 15:14

Client Sample ID: BH01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 00:47	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 10:56	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 08:05	CH	EET MID

Client Sample ID: BH01A

Date Collected: 03/06/23 10:00

Date Received: 03/06/23 15:14

Lab Sample ID: 890-4243-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.02 g 5 mL 48725 03/16/23 09:41 MNR EET MID Total/NA 8021B 5 mL 48708 03/17/23 01:07 **EET MID** Analysis 1 5 mL MNR Total/NA Total BTEX 48939 03/19/23 17:50 Analysis 1 A.I **EET MID** Total/NA Analysis 8015 NM 48375 03/13/23 15:13 SM **EET MID** Total/NA 48202 03/09/23 10:55 Prep 8015NM Prep 10.01 g 10 mL ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 48272 03/10/23 12:02 SM **EET MID** Soluble 48186 KS Leach DI Leach 5.02 g 50 mL 03/09/23 09:51 EET MID Soluble Analysis 300.0 50 mL 50 mL 48242 03/10/23 08:11 СН **EET MID**

Client Sample ID: BH02

Date Collected: 03/06/23 10:10 Date Received: 03/06/23 15:14

Lab Sample ID: 890-4243-3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 01:28	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 12:24	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 08:30	CH	EET MID

Client Sample ID: BH02A

Date Collected: 03/06/23 10:20 Date Received: 03/06/23 15:14

Lab Sample ID: 890-4243-4

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			5.01 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 01:48	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID

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Matrix: Solid

Lab Chronicle

Client: Ensolum
Project/Site: Wild Cobra 1 State 002H
SDG: 03D2024126

Client Sample ID: BH02A

Date Collected: 03/06/23 10:20 Date Received: 03/06/23 15:14 Lab Sample ID: 890-4243-4

Matrix: Solid

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 12:46	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 08:36	CH	EET MID

Client Sample ID: BH03 Lab Sample ID: 890-4243-5

Date Collected: 03/06/23 10:30 Date Received: 03/06/23 15:14

Batch Batch Dil Initial Final Batch Prepared Method Amount Amount Number **Prep Type** Type Run Factor or Analyzed Analyst Lab 48725 Total/NA Prep 5035 4.97 g 5 mL 03/16/23 09:41 MNR **EET MID** Total/NA 8021B 5 mL 5 mL 48708 03/17/23 02:09 MNR **EET MID** Analysis 1 Total/NA Analysis Total BTEX 1 48939 03/19/23 17:50 AJ **EET MID** Total/NA 8015 NM 48375 03/13/23 15:13 **EET MID** Analysis SM 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL 48202 03/09/23 10:55 AJ **EET MID** Total/NA 8015B NM 48272 03/10/23 13:09 SM **EET MID** Analysis 1 uL 1 uL Soluble Leach DI Leach 4.96 g 50 mL 48186 03/09/23 09:51 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 48242 03/10/23 08:42 СН **EET MID** 1

Client Sample ID: BH03A

Date Collected: 03/06/23 10:40

Lab Sample ID: 890-4243-6

Matrix: Solid

Date Received: 03/06/23 15:14

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 48725 03/16/23 09:41 MNR **EET MID** Total/NA 8021B 5 mL 5 mL 48708 03/17/23 02:29 MNR Analysis **EET MID** 1 Total/NA Analysis Total BTEX 1 48939 03/19/23 17:50 AJ **EET MID** Total/NA Analysis 8015 NM 48375 03/13/23 15:13 SM EET MID 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 48202 03/09/23 10:55 AJ **EET MID** Total/NA Analysis 8015B NM 1 uL 1 uL 48272 03/10/23 13:32 SM **EET MID** Soluble Leach DI Leach 5.02 g 50 mL 48186 03/09/23 09:51 KS **EET MID** Soluble Analysis 300.0 50 mL 50 mL 48242 03/10/23 08:48 СН FFT MID 1

Client Sample ID: BH04 Lab Sample ID: 890-4243-7

Date Collected: 03/06/23 10:50 Date Received: 03/06/23 15:14

	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	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 02:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.01 g 1 uL	10 mL 1 uL	48202 48272	03/09/23 10:55 03/10/23 13:53	AJ SM	EET MID EET MID

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Matrix: Solid

Lab Chronicle

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

Client Sample ID: BH04

Date Collected: 03/06/23 10:50 Date Received: 03/06/23 15:14 Lab Sample ID: 890-4243-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 08:55	CH	EET MID

Client Sample ID: BH04A

Date Collected: 03/06/23 11:00

Matrix: Solid

Date Collected: 03/06/23 11:00
Date Received: 03/06/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 03:10	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 14:16	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 09:01	CH	EET MID

Client Sample ID: BH05 Lab Sample ID: 890-4243-9

Date Collected: 03/06/23 11:10

Date Received: 03/06/23 15:14

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			5.01 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 03:30	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 14:37	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	48186	03/09/23 09:51	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48242	03/10/23 09:07	CH	EET MID

Client Sample ID: BH05A Lab Sample ID: 890-4243-10

Date Collected: 03/06/23 11:20

Date Received: 03/06/23 15:14

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 03:51	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 15:00	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	48204	03/09/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/09/23 23:09	CH	EET MID

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Lab Chronicle

Job ID: 890-4243-1 Client: Ensolum Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Client Sample ID: SS01 Lab Sample ID: 890-4243-11

Date Collected: 03/06/23 09:05 **Matrix: Solid** Date Received: 03/06/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 05:41	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID
Total/NA	Analysis	8015 NM		1			48375	03/13/23 15:13	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	48202	03/09/23 10:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48272	03/10/23 15:44	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	48204	03/09/23 11:30	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/09/23 23:28	CH	EET MID

Client Sample ID: SS02 Lab Sample ID: 890-4243-12

Date Collected: 03/06/23 09:10 **Matrix: Solid** Date Received: 03/06/23 15:14

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Prep 5035 Total/NA 5.01 g 5 mL 48725 03/16/23 09:41 MNR EET MID Total/NA 8021B 5 mL 03/17/23 06:01 **EET MID** Analysis 1 5 mL 48708 MNR Total/NA Total BTEX 48939 03/19/23 17:50 Analysis A.I **EET MID** 1 Total/NA Analysis 8015 NM 48375 03/13/23 15:13 SM **EET MID** Total/NA 48202 Prep 8015NM Prep 10.01 g 10 mL 03/09/23 10:55 ΑJ EET MID Total/NA Analysis 8015B NM 1 uL 1 uL 48272 03/10/23 16:07 SM **EET MID** Soluble 48204 Leach DI Leach 5.01 g 50 mL 03/09/23 11:30 KS **EET MID**

Client Sample ID: SS03 Lab Sample ID: 890-4243-13 Date Collected: 03/06/23 09:15

50 mL

50 mL

48263

03/09/23 23:34

СН

Date Received: 03/06/23 15:14

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 06:21	MNR	EET MIC
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MIC
Total/NA	Analysis	8015 NM		1			48375	03/10/23 17:58	SM	EET MIC
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	48166	03/08/23 17:08	AJ	EET MIC
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 18:48	SM	EET MIC
Soluble	Leach	DI Leach			5.02 g	50 mL	48204	03/09/23 11:30	KS	EET MIC
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/09/23 23:40	CH	EET MID

Lab Sample ID: 890-4243-14 **Client Sample ID: SS04** Date Collected: 03/06/23 09:20 **Matrix: Solid**

Date Received: 03/06/23 15:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	48725	03/16/23 09:41	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	48708	03/17/23 06:42	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			48939	03/19/23 17:50	AJ	EET MID

Eurofins Carlsbad

Matrix: Solid

EET MID

Released to Imaging: 7/28/2023 1:45:54 PM

Client Sample ID: SS04

Lab Chronicle

Client: Ensolum Job ID: 890-4243-1
Project/Site: Wild Cobra 1 State 002H SDG: 03D2024126

Lab Sample ID: 890-4243-14

Date Collected: 03/06/23 09:20
Date Received: 03/06/23 15:14

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	_		48375	03/10/23 17:58	SM	EET MID	
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	48166	03/08/23 17:08	AJ	EET MID	
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	48177	03/09/23 19:08	SM	EET MID	
Soluble	Leach	DI Leach			4.95 g	50 mL	48204	03/09/23 11:30	KS	EET MID	
Soluble	Analysis	300.0		1	50 mL	50 mL	48263	03/09/23 23:46	CH	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

Project/Site: Wild Cobra 1 State 002H

SDG: 03D2024126

Laboratory: Eurofins Midland

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

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

3

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4.4

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14

Method Summary

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1

SDG: 03D2024126

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

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: Ensolum

Project/Site: Wild Cobra 1 State 002H

Job ID: 890-4243-1

SDG: 03D2024126

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4243-1	BH01	Solid	03/06/23 09:50	03/06/23 15:14	0.5'
890-4243-2	BH01A	Solid	03/06/23 10:00	03/06/23 15:14	1.0'
890-4243-3	BH02	Solid	03/06/23 10:10	03/06/23 15:14	0.5'
890-4243-4	BH02A	Solid	03/06/23 10:20	03/06/23 15:14	1.0'
890-4243-5	BH03	Solid	03/06/23 10:30	03/06/23 15:14	0.5'
890-4243-6	вноза	Solid	03/06/23 10:40	03/06/23 15:14	1.0'
890-4243-7	BH04	Solid	03/06/23 10:50	03/06/23 15:14	0.5'
890-4243-8	BH04A	Solid	03/06/23 11:00	03/06/23 15:14	1.0'
890-4243-9	BH05	Solid	03/06/23 11:10	03/06/23 15:14	0.5'
890-4243-10	BH05A	Solid	03/06/23 11:20	03/06/23 15:14	1.0'
890-4243-11	SS01	Solid	03/06/23 09:05	03/06/23 15:14	0.5'
890-4243-12	SS02	Solid	03/06/23 09:10	03/06/23 15:14	0.5'
890-4243-13	SS03	Solid	03/06/23 09:15	03/06/23 15:14	0.5'
890-4243-14	SS04	Solid	03/06/23 09:20	03/06/23 15:14	0.5'

Received by OCD: 5/9/2023 9:55:07

Environment Testing Xenco

Chain of Custody

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

Work Order	No:	
WOIN OIGH		

								_							_			W	ww.xer	1co.co	m Pag	e	of <u></u>			
Project Manager:	Hadli	e Gre	2h			Bill to: (if d	Bill to: (if different) Hadliz Gren						Work Order Comments													
Company Name:	Ensol	um l	-LC			Company	Name:		Ensdum LLC						Program: UST/PST PRP Brownfields RRC Superfund											
Address:	6011	V. Mai	ren-	fold St.	Suit 400	Address:			60	N	May	Tens	Rld 51.	Suit 4	00	State of Project:										
City, State ZIP:				79701		City, State	ZIP:		Mi	dlan	ad.	TY	79	701		Reporting: Level II Level III PST/UST TRRP Level IV										
Phone:	432-	557-	88	95	Email:	hare	and e	mª	du	m.	COI	m				Deliverables: EDD ADaPT Other:										
Project Name:	ILL:UC	alvea	1 <	tate 002H	Turn	Around							AN	ALYSIS RI	FOUR	DUEST Preservative Codes										
Project Number:		2024			Routine	Rush		res.			T			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T				\top	None: N		DI Water: H			
	-	-ea	100		Due Date:	T		ode	(_						Cool: Co	nol	MeOH: Me			
Project Location: Sampler's Name:			10	Hen	TAT starts the	day received	l by		0.00										1		HCL: HC		HNO 3: HN			
PO #:	100C	Van	C EC	X FIEL		eived by 4:30			.3					f.) 1851 1 1	, ncn 11 111	111.1111111	1888 (UN 1984			H ₂ SO ₄ :1	H ₂	NaOH: Na			
SAMPLE RECEIPT	1	Temp Blai	nk:	Yes No	Wet Ice:	Yes N	lo	ters	(EPA:300)		0		111								H ₃ PO ₄ :	HP				
Samples Received Int		Yes No	_	Thermomete	-	Linco	97	Parameters	巴	S	SZ.										NaHSO	4: NABI	S			
Cooler Custody Seals:	: Ye	s No	V/A	Correction F	actor:	70,	2	Pa	3	8015	30							1866 1866 1866			Na 2S 2C	Na ₂ S ₂ O ₃ : NaSO ₃				
Sample Custody Seal	s: Ye	s No	V/A)	Temperatur	e Reading:	5.4			2	8	×		8:	90-4243	Chai	ain of Custody			ustody			Zn Acetate+NaOH: Zn				
Total Containers:				Corrected To	emperature:	5.	1		0	1	公		1	1	ı				1		NaOH+	Ascorbi	c Acid: SAPC			
Sample Ident	tification	1	Matrix	Date Sampled	Time Sampled	Depth		of ont	Chlorides	TPH	18									Sample Comments						
BHOI			Soil	3-6-23	950	0.5	Camo	1	X	X	X															
BHOIA					1000	1.0'														\perp						
BHOZ					1010	0.5'																				
BHOZA					1020	1.0'										-	_									
BH03					1030	0.5										-	-			4						
BH03A					1040	1.0'					11					1_	1_			+						
BH04					1050	0.5					1					-	1			+						
BHOYA					1100	1.0'					11					-										
BHOS			1		1110	0.5'	1													-			- 1			
BH05A			V	V	1120	1.0'	1	V	V	V	V	<u></u>														
Total 200.7 / 601 Circle Method(s)		00.8 / 602			TCLP/S	PM Texas															Sr Tl Sn 5.1 / 7470		n			
Notice: Signature of this doo of service. Eurofins Xenco w of Eurofins Xenco. A minim	vill be liable only	y for the cos	t of samp	oles and shall not	assume any response	onsibility for any	losses or ex	pens	es incurr	ed by th	e client if	f such loss	ses are due to	circumstanc	es bey	and the c	ontrol	ted.								
Relinquished by: (Signature) Received by: (Signature)			e)			Date	/Time		Re	linquishe	d by: (Sig	natu					ure)		Date/Time							
Peter Chi	atte		()	of W	10		2	3 - 6	7.20	3 15	514	2														

Revised Date: 08/25/2020 Rev 2020 2

Page 39 of 41

eurofins

Environment Testing Xenco

Chain of Custody

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

Work Order No:	

					ni .								1 -			www.xen	co.com	Page	of_C	
Project Manager:	Hadlie Green Bill to: (if differen						to: (if different) Hadire Green						Work Order Comments							
Company Name:	Ensolum	LLC			Company Name	Company Name: Ensolum LLC								rogram:	UST/PS	T PRP	Brow	vnfields 🗌 RF	RC Superfund	
Address:	601 N.1	larren	feld St. Sui	+ 400	Company Name: Ensolum LLC Address: 601 N. Marian Ed St. Suit 400							state of Pr	-		_					
City, State ZIP:	Midland;				City, State ZIP:	City, State ZIP: Midland TX 79701]]	Reporting: Level II Level III PST/UST TRRP Level IV								
Phone:	432-55			Email:	harcen@	ense	lun	. 60	m					Deliverables: EDD ADaPT Other:						
Project Name:	Wild Col	ra L	State CO2H	Turn	Around						A	NALYSIS REQ	JEST F						Preservative Codes	
Project Number:	0302	0241	26	Routine	Rush	Pres. Code												None: NO	DI Water: H ₂ O	
Project Location:	Lec			Due Date:			0											Cool: Cool	МеОН: Ме	
Sampler's Name:			etten		day received by		300 0											HCL: HC	HNO 3: HN	
PO #:				the lab, if rec	eived by 4:30pm		3											H ₂ SO ₄ : H ₂	NaOH: Na	
SAMPLE RECEIPT	Temp	Blank:	Yes No	Wet Ice:	Yes No	Parameters	TP4	100	(208)									H ₃ PO ₄ : HP		
Samples Received Int	tact: Yes	No	Thermomete	er ID:		Iram		8015	3								1 1	NaHSO ₄: NAE		
Cooler Custody Seals	: Yes No	N/A	Correction	actor:	1	Pa Pa	8	60	100									Na 2S 2O 3: NaS		
Sample Custody Seal	s: Yes No	N/A	Temperatur	e Reading:	1	1	2		×									Zn Acetate+N		
Total Containers:			Corrected T	emperature:	<u> </u>		ق ا	TA	111									NaOH+Ascorb	oic Acid: SAPC	
Sample Iden	tification	Matrix	Date Sampled	Time Sampled	Depth Grab/ Comp	# of Cont	Chlorides	1	PA									Sample	Comments	
5501		50:1	3-6-23	9.05	0.5' (OM	1	X	×	1											
5502				910																
5503		T		915																
5504		V	V	920	VV	V	1	1	V			_								
							_	_	=				4	_						
					7-1				1				-				4			
				21	In fath			_					_		_					
				the		—		ļ					_							
													\dashv							
Total 200.7 / 60					PM Texas 11										Ni K Se	Ag SiO ₂	Na Sr	TI Sn U V	Zn	
Circle Method(s)	and Metal(s) t	o be an	alyzed	TCLP/S	PLP 6010 : 8RG	CRA S	b As	Ba B	e Cd	Cr Co	Cu Pb	Mn Mo Ni	Se	Ag II U		Hg: 1631	/ 245.1 /	/ 7470 / 747		
Notice: Signature of this doo of service. Eurofins Xenco v of Eurofins Xenco. A minim	will be liable only for th	e cost of san	ples and shall not	assume any response	onsibility for any losses	or exper	ses incur	red by t	he client i	such loss	es are due	to circumstances b	eyono	the control						
	Relinquished by: (Signature) Received by: (Signature)					Date/Time Relinquished by: (Signal)	Date/Time			
Peter Unita	A=	1	lae	W)					2										
3		1		Y		-				4				-						

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4243-1 SDG Number: 03D2024126

List Source: Eurofins Carlsbad

List Number: 1

Login Number: 4243

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: 890-4243-1

 SDG Number: 03D2024126

List Source: Eurofins Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 03/08/23 11:29 AM

Creator: Rodriguez, Leticia

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

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APPENDIX E

Final C-141

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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2233946889
District RP	
Facility ID	fAPP2203531785
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Charles Beauvais	Contact Telephone	(575) 988-2043
Contact email	Charles.R.Beauvais@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2233946889
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

			Location o	f Release Sourc	ce	
Latitude	32.691	58		Longitude	103.52103	
			(NAD 83 in decin	nal degrees to 5 decimal plac	ces)	
Site Name		Wild Cobra	1 State 002H	Site Type	Tank Battery	
Date Releas	Date Release Discovered November 30, 2022 API# (if applicable)					
	1 ~ .					
Unit Letter	Section	Township	Range	County		
E	01	19S	34E	Lea		
Surface Own	er: 🔳 State	Federal Tı	ribal Private (Na	ume:)
Nature and Volume of Release						

Materia	l(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 1.6	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	used by a valve left shut causing pressure	e in heater treater and pushing fluids

through the flare line resulting in a flare fire.

No fluids were recovered due to the fire burning off any standing fluids. This release and flare fire was off pad.

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Incident ID	NAPP2233946889
District RP	
Facility ID	fAPP2203531785
Application ID	

Was this a major	If VES for what reason(s) does the response	nsible party consider this a major release?
release as defined by	The release involved a fire.	instore party consider this a major resease.
19.15.29.7(A) NMAC?	The release involved a life.	
Yes No		
If YES, was immediate n	Lotice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?
	·	a e-mail November 30, 2022 at 12:28 pm to
ocd.enviro@state.n	•	
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
■ The source of the rele	ease has been stopped.	
■ The impacted area ha	as been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
If all the actions describe	ed above have <u>not</u> been undertaken, explain	why:
		,
D 4045600D (0)3D		
		emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred
		blease attach all information needed for closure evaluation.
I hereby certify that the info	ormation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and
regulations all operators are	required to report and/or file certain release not	fications and perform corrective actions for releases which may endanger
		OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In
		responsibility for compliance with any other federal, state, or local laws
and/or regulations.	N. =	English and the English at the
Printed Name. Brittar	ny N. Esparza	Title: Environmental Technician
Signature:	ny N. Esparza	Date: 12/5/2022 Telephone: (432) 221-0398
., Brittany.Espar	za@ConocoPhillips.com	(432) 221-0398
emaii:	<u> </u>	reiepnone: (- /
OCD Only		
	dyn Hariman	12/05/2022
Received by: JOCE	elyn Harimon	Date:12/05/2022

= D 11 - 0 Cl	D. 12/F	(2022.1	1.21.10 DM	42	L	48 Spill V	olume Estimat	e Form	D 2 . 6 4
— Receivea by OCI): 12/3/	Facility	y Name & Number:	Wild Cobra 182 StT	Battery				Page 3 of 4
			Asset Area:	DBEN					
	Releas	se Disco	overy Date & Time:	11/30/2022 8:00AM					
			Release Type:	Oil					
Provide a	ny know	n detail	s about the event:	Supply valve to hea	ater closed causin	ig heater to s	wamp out and send	oil to flare .	
		W					n - On Pad Surface	AND VALUE OF THE PROPERTY OF T	
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	14.0	24.0	0.25	4	336.000	0.005	0.312	0.000	0.312
Rectangle B	16.0	16.0	0.25	4	256.000	0.005	0.237	0.000	0.237
Rectangle C	16.0	40.0	0.25	4	640.000	0.005	0.593	0.000	0.593
Rectangle D	16.0	15.0	0.25	4	240.000	0.005	0.223	0.000	0.223
Rectangle E	13.0	17.0	0.25	4	221.000	0.005	0.205	0.000	0.205
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G				8	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J Released to Imag	vina: 1	1/6/202	22 1.28.15 DM		0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
- Acteuseu to 1mug	;mg. 12	1/0/404	2 4.20.43 1 141 -	07	(C)		W	Total Volume Release:	1.570

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 163898

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	163898
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	12/6/2022

Page 138 of 155

Incident ID	NAPP2233946889
District RP	
Facility ID	fAPP2203531785
Application ID	111112203531705

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>51-100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wel ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination 	ls.

Characterization Report Checklist: Each of the following items must be included in the report.
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination 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: 5/9/2023 9:55:07 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	1 080 200 0 1
Incident ID	NAPP2233946889
District RP	
Facility ID	fAPP2203531785
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Jacob Laird	Title: _Environmental Engineer			
Signature: <u>Jacob Laird</u>	Date:5/2/2023			
email:Jacob.Laird@conocophillips.com	Telephone:575-703-5482			
OCD Only				
Received by:Jocelyn Harimon	Date:05/09/2023			

Page 140 of 155

Incident ID	NAPP2233946889
District RP	
Facility ID	fAPP2203531785
Application ID	

Closure

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

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.				
A scaled site and sampling diagram as described in 19.15.	29.11 NMAC			
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)				
☐ Laboratory analyses of final sampling (Note: appropriate €	ODC District office must be notified 2 days prior to final sampling)			
Description of remediation activities				
and regulations all operators are required to report and/or file ce may endanger public health or the environment. The acceptance should their operations have failed to adequately investigate and human health or the environment. In addition, OCD acceptance compliance with any other federal, state, or local laws and/or re-	replete to the best of my knowledge and understand that pursuant to OCD rules extain release notifications and perform corrective actions for releases which e of a C-141 report by the OCD does not relieve the operator of liability distributed remediate contamination that pose a threat to groundwater, surface water, e of a C-141 report does not relieve the operator of responsibility for gulations. The responsible party acknowledges they must substantially econditions that existed prior to the release or their final land use in the OCD when reclamation and re-vegetation are complete. Title: _Environmental Engineer Date:5/2/2023 Telephone:575-703-5482			
OCD Only Received by:	Date:05/09/2023			
	arty of liability should their operations have failed to adequately investigate and ace water, human health, or the environment nor does not relieve the responsible and/or regulations.			
Closure Approved by:	Date: <u>07/28/2023</u>			
Printed Name: Nelson Velez	Title: _ Environmental Specialist – Adv			



APPENDIX F

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Kalei Jennings

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

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 12/19/2022)

Date: Wednesday, December 14, 2022 4:43:42 PM

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

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

[**EXTERNAL EMAIL**]

Good afternoon Kalei,

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

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings < kjennings@ensolum.com> **Sent:** Wednesday, December 14, 2022 3:21 PM

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

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 12/19/2022)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of December 19, 2022.

- Gold Coast 26 Federal 1 H/ NAPP2234636400
- Wild Cobra 1 State 002H/ NAPP2233946889
- Zia Hills 19-1/ NAPP2216037138

Thank you,



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

From: Enviro, OCD, EMNRD

To: Kalei Jennings

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

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/02/2023)

Date: Friday, December 30, 2022 11:43:06 AM

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

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

[**EXTERNAL EMAIL**]

Good Morning Kalei,

Please be aware that notification requirements are **two business days**, per rule. Please proceed on your schedule. Also, please include this, and all correspondence, in the closure report to insure inclusion in the project file.

Thank you, Jocelyn

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Friday, December 30, 2022 10:39 AM

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

Cc: Hadlie Green hgreen@ensolum.com; Josh Adams jadams@ensolum.com>

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/02/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of January 2, 2023.

Gold Coast 26 Federal 1 H/ NAPP2234636400

- Wild Cobra 1 State 002H/ NAPP2233946889
- Triste Draw 5 Federal 001H / NAPP2229033410

Thank you,



Kalei Jennings Senior Scientist

817-683-2503 **Ensolum, LLC** From: <u>Kalei Jennings</u>
To: <u>Josh Adams</u>

Subject: FW: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/23/2023)

Date: Thursday, January 19, 2023 10:23:05 AM

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

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

Please file in appropriate project folders.



Kalei Jennings Senior Scientist

817-683-2503 **Ensolum, LLC**

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

Sent: Thursday, January 19, 2023 8:14 AM **To:** Kalei Jennings kjennings@ensolum.com

Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD

<Jennifer.Nobui@emnrd.nm.gov>

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/23/2023)

[**EXTERNAL EMAIL**]

Kalei,

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

JΗ

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings < <u>kiennings@ensolum.com</u>>

Sent: Wednesday, January 18, 2023 9:20 PM

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

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/23/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of January 23, 2023.

- Redtail State Com 1H/NAPP2233239048
- Wild Cobra/ NAPP2233946889
- Gold Coast/ NAPP2234636400

Thank you,



From: Enviro, OCD, EMNRD
To: Kalei Jennings

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

Subject: RE: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/30/2023)

Date: Monday, January 30, 2023 9:22:17 AM

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

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

[**EXTERNAL EMAIL**]

Kalei,

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

JH

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Thursday, January 26, 2023 8:11 AM

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

Cc: Josh Adams < jadams@ensolum.com>

Subject: [EXTERNAL] ConocoPhillips Company- Sampling Notification (Week of 01/30/2023)

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

All,

ConocoPhillips Company (COP) plans to complete final sampling activities at the following sites the week of January 30, 2023.

- Wild Cobra/ NAPP2233946889
- Gold Coast/ NAPP2234636400
- Zia Hills 19-1/ NAPP2216037138

- Windward Flowline/ NAPP2218850477
- Battle Axe CTB / NAPP2300341479

Thank you,



Kalei Jennings Senior Scientist

Senior Scientist 817-683-2503 Ensolum, LLC From: Kalei Jennings
To: Hadlie Green

Subject: FW: [EXTERNAL] (Extension Approval) COG COPC - Wild Cobra 1 State 002H (Incident Number

NAPP2233946889)

Date: Thursday, February 23, 2023 9:03:28 AM

Attachments: <u>image003.png</u>

image001.png image004.png image005.png image006.png

Approved, Please update the master spreadsheet.



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

From: Beauvais, Charles R < Charles.R.Beauvais@conocophillips.com>

Sent: Wednesday, February 22, 2023 7:28 PM **To:** Kalei Jennings < kjennings@ensolum.com>

Subject: FW: [EXTERNAL](Extension Approval) COG COPC - Wild Cobra 1 State 002H (Incident

Number NAPP2233946889)

[**EXTERNAL EMAIL**]

FYI

From: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov >

Sent: Wednesday, February 22, 2023 3:52 PM

To: Beauvais, Charles R < <u>Charles.R.Beauvais@conocophillips.com</u>>

Cc: Esparza, Brittany < <u>Brittany.Esparza@conocophillips.com</u>>; Fejervary Morena, Gustavo A < <u>G.Fejervary@conocophillips.com</u>>; Bratcher, Michael, EMNRD < <u>mike.bratcher@emnrd.nm.gov</u>>; Nobui, Jennifer, EMNRD < <u>Jennifer.Nobui@emnrd.nm.gov</u>>; Harimon, Jocelyn, EMNRD

<<u>Jocelyn.Harimon@emnrd.nm.gov</u>>

Subject: [EXTERNAL](Extension Approval) COG COPC - Wild Cobra 1 State 002H (Incident Number NAPP2233946889)

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #NAPP2233946889

Charles,

Your request for an extension to **May 29th, 2023** is approved. In order to complete additional delineation activities and submit a remediation work plan or closure report, COG is requesting a 90-day extension of this deadline. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave.| Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Beauvais, Charles R < Charles.R.Beauvais@conocophillips.com

Sent: Wednesday, February 22, 2023 9:16 AM

To: Enviro, OCD, EMNRD < CCD.Enviro@emnrd.nm.gov; EMNRD-OCD-District1spills@state.nm.us; Hamlet, Robert, EMNRD < Robert.Hamlet@emnrd.nm.gov; CFO_Spill, BLM_NM < BLM_NM_CFO_Spill@blm.gov

Cc: Esparza, Brittany < <u>Brittany.Esparza@conocophillips.com</u>>; Fejervary Morena, Gustavo A < <u>G.Fejervary@conocophillips.com</u>>

Subject: [EXTERNAL] COG COPC - Extension Request - Wild Cobra 1 State 002H (Incident Number NAPP2233946889)

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

To Whom It May Concern,

Wild Cobra 1 State 002H (Incident Number NAPP2233946889)

COG Operating, LLC (COG) is requesting an extension for the current deadline of February 28, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for Wild Cobra 1 State 002H (Incident Number NAPP2233946889). The release was discovered on November 30, 2022. Initial site assessment and excavation activities have been completed. Additional delineation activities are needed. In order to complete additional delineation activities and submit a remediation work plan or closure report, COG requests a 90-day extension of this deadline until May 29, 2023.

Respectfully,

Charles R. Beauvais II

Senior Environmental Engineer | GHG Reporting & Systems | ConocoPhillips
Permian Business Unit | L48 Environmental & SD
(M) 575-988-2043
Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.



From: Enviro, OCD, EMNRD

To: Hadlie Green

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

 Subject:
 RE: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

Date: Wednesday, March 1, 2023 5:17:02 PM

Attachments: <u>image006.png</u>

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

JH

Jocelyn Harimon • Environmental Specialist

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

http://www.emnrd.nm.gov



From: Hadlie Green hgreen@ensolum.com>
Sent: Wednesday, March 1, 2023 8:43 AM

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

Cc: Kalei Jennings <kjennings@ensolum.com>

Subject: [EXTERNAL] Sampling Notification (Week of 3/6/2023)

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

All,

ConocoPhillips Company (COP) plans to complete sampling activities at the following site the week of March 6, 2023.

- Baseball Cap 25 M CTB / NAPP2303037207
- Wild Cobra 1 State 002H / NAPP2233946889
- Cabo Wabo Federal Com 705H / NAPP2236129464

Thank you,



Hadlie Green Staff Geologist 432-557-8895 hgreen@ensolum.com Ensolum, LLC

Released to Imaging: 7/28/2023 1:45:54 PM

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 215084

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	215084
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	7/28/2023