



June 8, 2022

District 1  
New Mexico Oil Conservation Division  
1625 N. French Dr.  
Hobbs, New Mexico 88240

**Re: Closure Request  
Mortarboard Federal Com 013H  
Incident Number NAPP2206950640  
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 and soil sampling activities performed at the Mortarboard Federal Com 013H (Site). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a small crude oil flare fire at the Site. Based on site assessment activities and laboratory analytical results from the soil sampling event, COG is requesting closure for Incident Number NAPP2206950640.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit C, Section 01, Township 24 South, Range 34 East, in Lea County, New Mexico (32.25364°N, 103.42641°W) and is associated with oil and gas exploration and production operations on private land.

On February 26, 2022, a low-pressure flare released a small amount of crude oil, which ignited and extinguished itself after reaching the ground. Approximately 0.017 barrels (bbls) of crude oil were released. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on February 28, 2022 and submitted a Release Notification Form C-141 (Form C-141) on March 10, 2022. The release was assigned Incident Number NAPP2206950640.

#### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

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

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321357103265201, located approximately 1.6 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 43 feet bgs and an unknown total depth. Ground surface elevation at the groundwater well location is 3,486 feet

amsl, which is approximately 27 feet higher in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 0.58 miles southwest 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 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

## SITE ASSESSMENT ACTIVITIES

On May 19, 2022, site assessment activities were conducted to evaluate the release based on information provided on the Form C-141 and visual observations. No visible indications of the release or fire were observed. Two assessment soil samples (SS01 through SS02) were collected beneath the flare stack from a depth of 0.5 feet bgs, to assess for the presence or absence of impacted soil resulting from the crude oil flare fire. The assessment soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

## ANALYTICAL RESULTS

Laboratory analytical results for assessment soil samples SS01 and SS02 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the most stringent of NMOCD Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Appendix C.

## CLOSURE REQUEST

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the February 26, 2022, crude oil flare fire. Laboratory analytical results for the soil samples collected beneath the flare stack indicated that benzene, BTEX, TPH, and chloride

concentrations were compliant with the most stringent Table 1 Closure Criteria. Additionally, no visible indications of the release or fire were observed.

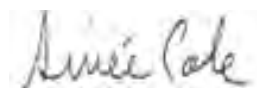
Based on soil sample laboratory analytical results compliant with the most stringent Table 1 Closure Criteria, no impacted soil was identified, and no excavation was warranted as a result of the small crude oil fire. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2206950640. The Final C-141 is included in Appendix E.

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

Sincerely,  
**Ensolum, LLC**



Kalei Jennings  
Senior Scientist



Aimee Cole  
Senior Managing Scientist

cc: Charles Beauvais, ConocoPhillips

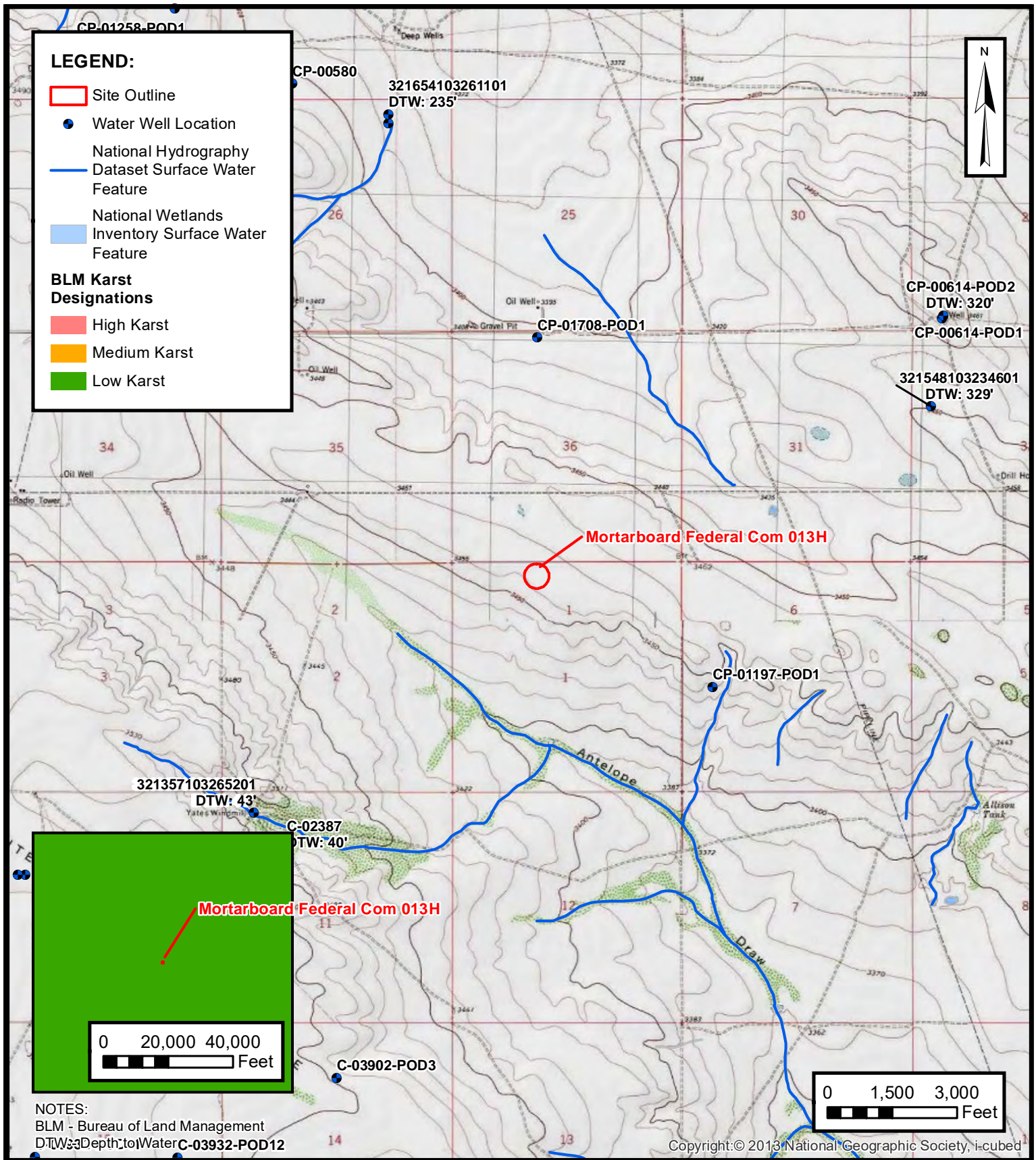
Appendices:

Figure 1	Site Receptor Map
Figure 2	Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES









**SOIL SAMPLE LOCATIONS**

COG OPERATING, LLC  
MORTARBOARD FEDERAL COM 013H  
NAPP2206950640  
Unit C, Sec 01, T24S, R34E  
Lea County, New Mexico

**FIGURE**  
**2**



TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Mortarboard Federal Com 013H  
 COG Operating, LLC  
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Surface Soil Samples										
SS01	05/19/2022	0.5	<0.00202	0.00608	<50.0	<50.0	<50.0	<50.0	<50.0	60.9
SS02	05/19/2022	0.5	<0.00202	<0.00403	<49.9	89.0	<49.9	89.0	89.0	498

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon





## APPENDIX A

### Referenced Well Records

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# Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	C 02387			1	11	24S	34E	646513	3567613*

Driller License:

Driller Company:

Driller Name: UNKNOWN

Drill Start Date:

Drill Finish Date:

12/31/1916

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 3 GPM

Casing Size: 6.00

Depth Well:

62 feet

Depth Water: 40 feet

\*UTM location was derived from PLSS - see Help

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.

6/7/22 9:22 AM

POINT OF DIVERSION SUMMARY

Lea County, New Mexico  
Latitude 32°14'16.5", Longitude 103°26'49.0" NAD83  
Land-surface elevation 3,486 feet above NAVD88  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	Water-level date-time accuracy	Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	Status	Method of measurement	Measuring agency	Source of measurement	Water-level approval status
1976-01-21		D	62610		3443.12	NGVD29	1	Z			A
1976-01-21		D	62611		3444.74	NAVD88	1	Z			A
1976-01-21		D	72019	41.26			1	Z			A
1981-03-19		D	62610		3442.47	NGVD29	1	Z			A
1981-03-19		D	62611		3444.09	NAVD88	1	Z			A
1981-03-19		D	72019	41.91			1	Z			A
1986-03-07		D	62610		3442.53	NGVD29	1	Z			A
1986-03-07		D	62611		3444.15	NAVD88	1	Z			A
1986-03-07		D	72019	41.85			1	Z			A
1991-05-30		D	62610		3442.29	NGVD29	1	Z			A
1991-05-30		D	62611		3443.91	NAVD88	1	Z			A
1991-05-30		D	72019	42.09			1	Z			A
1996-03-13		D	62610		3443.45	NGVD29	1	S			A
1996-03-13		D	62611		3445.07	NAVD88	1	S			A
1996-03-13		D	72019	40.93			1	S			A
2015-12-19	00:00 UTC	m	62610		3440.47	NGVD29	1	S	USGS	S	A
2015-12-19	00:00 UTC	m	62611		3442.09	NAVD88	1	S	USGS	S	A
2015-12-19	00:00 UTC	m	72019	43.91			1	S	USGS	S	A



## APPENDIX B

### Photographic Log



**Photographic Log**

COG Operating, LLC

Mortarboard Federal Com 013H

Incident Number NAPP2206950640



Photograph 1

Date: May 19, 2022

Description: Flare area during assessment activities.



Photograph 2

Date: May 19, 2022

Description: Flare area during assessment activities.



## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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Environment Testing  
America

## ANALYTICAL REPORT

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

Laboratory Job ID: 890-2322-1

Laboratory Sample Delivery Group: 03D2024012

Client Project/Site: Mortarboard Federal Com 013H  
Revision: 1

For:

Ensolum  
705 W. Wadley  
Suite 210  
Midland, Texas 79701

Attn: Kalei Jennings

Authorized for release by:  
6/7/2022 12:51:11 PM

Jessica Kramer, Project Manager  
(432)704-5440

[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

### LINKS

Review your project  
results through



Have a Question?



Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

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

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

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Laboratory Job ID: 890-2322-1  
SDG: 03D2024012

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## Definitions/Glossary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

**Job ID: 890-2322-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2322-1**REVISION

The report being provided is a revision of the original report sent on 5/26/2022. The report (revision 1) is being revised due to Per client email, requesting sample ID change to SS01 and SS02.

Report revision history

**Receipt**

The samples were received on 5/19/2022 2:25 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.0°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-25983 and analytical batch 880-25940 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 880-25994 and analytical batch 880-26201 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

Client Sample ID: SS01

Lab Sample ID: 890-2322-1

Date Collected: 05/19/22 11:10

Matrix: Solid

Date Received: 05/19/22 14:25

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 17:51	1
<b>Toluene</b>	<b>0.00608</b>		0.00202	mg/Kg		05/21/22 14:33	05/21/22 17:51	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 17:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		05/21/22 14:33	05/21/22 17:51	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 17:51	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		05/21/22 14:33	05/21/22 17:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	05/21/22 14:33	05/21/22 17:51	1
1,4-Difluorobenzene (Surr)	102		70 - 130	05/21/22 14:33	05/21/22 17:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Total BTEX</b>	<b>0.00608</b>		0.00404	mg/Kg			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *	50.0	mg/Kg		05/20/22 14:10	05/21/22 02:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/22 14:10	05/21/22 02:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/22 14:10	05/21/22 02:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	05/20/22 14:10	05/21/22 02:55	1
o-Terphenyl	113		70 - 130	05/20/22 14:10	05/21/22 02:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>60.9</b>		5.00	mg/Kg			05/25/22 12:23	1

Client Sample ID: SS02

Lab Sample ID: 890-2322-2

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/19/22 14:25

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 18:11	1
Toluene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 18:11	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 18:11	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		05/21/22 14:33	05/21/22 18:11	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		05/21/22 14:33	05/21/22 18:11	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		05/21/22 14:33	05/21/22 18:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	05/21/22 14:33	05/21/22 18:11	1

Eurofins Carlsbad

## Client Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

Client Sample ID: SS02

Lab Sample ID: 890-2322-2

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/19/22 14:25

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	05/21/22 14:33	05/21/22 18:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			05/23/22 11:13	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	89.0		49.9	mg/Kg			05/23/22 09:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *	49.9	mg/Kg		05/20/22 14:10	05/21/22 03:17	1
Diesel Range Organics (Over C10-C28)	89.0		49.9	mg/Kg		05/20/22 14:10	05/21/22 03:17	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		05/20/22 14:10	05/21/22 03:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			05/20/22 14:10	05/21/22 03:17	1
o-Terphenyl	117		70 - 130			05/20/22 14:10	05/21/22 03:17	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	498		4.95	mg/Kg			05/25/22 12:30	1

Eurofins Carlsbad



# Surrogate Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2322-1	SS01	97	102
890-2322-1 MS	SS01	110	98
890-2322-1 MSD	SS01	110	99
890-2322-2	SS02	98	98
LCS 880-26015/1-A	Lab Control Sample	104	99
LCSD 880-26015/2-A	Lab Control Sample Dup	117	102
MB 880-26015/5-A	Method Blank	104	95
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2320-A-1-B MS	Matrix Spike	115	106
890-2320-A-1-C MSD	Matrix Spike Duplicate	116	107
890-2322-1	SS01	111	113
890-2322-2	SS02	116	117
LCS 880-25983/2-A	Lab Control Sample	89	84
LCSD 880-25983/3-A	Lab Control Sample Dup	91	85
MB 880-25983/1-A	Method Blank	104	115
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Carlsbad

## QC Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

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

Lab Sample ID: MB 880-26015/5-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 26015

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Toluene	<0.00200	U	0.00200	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		05/21/22 14:33	05/21/22 17:29	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		05/21/22 14:33	05/21/22 17:29	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	05/21/22 14:33	05/21/22 17:29	1
1,4-Difluorobenzene (Surr)	95		70 - 130	05/21/22 14:33	05/21/22 17:29	1

Lab Sample ID: LCS 880-26015/1-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.09750		mg/Kg		97	70 - 130
Toluene	0.100	0.1005		mg/Kg		101	70 - 130
Ethylbenzene	0.100	0.09087		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1914		mg/Kg		96	70 - 130
o-Xylene	0.100	0.09613		mg/Kg		96	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-26015/2-A

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1009		mg/Kg		101	70 - 130	3	35
Toluene	0.100	0.1080		mg/Kg		108	70 - 130	7	35
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.2221		mg/Kg		111	70 - 130	15	35
o-Xylene	0.100	0.1117		mg/Kg		112	70 - 130	15	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2322-1 MS

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.101	0.08874		mg/Kg		88	70 - 130
Toluene	0.00608		0.101	0.09547		mg/Kg		89	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

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

Lab Sample ID: 890-2322-1 MS

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.101	0.08919		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.201	0.1907		mg/Kg		94	70 - 130
o-Xylene	<0.00202	U	0.101	0.09732		mg/Kg		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-2322-1 MSD

Matrix: Solid

Analysis Batch: 26016

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 26015

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.08709		mg/Kg		86	70 - 130	2	35
Toluene	0.00608		0.100	0.09498		mg/Kg		89	70 - 130	1	35
Ethylbenzene	<0.00202	U	0.100	0.08905		mg/Kg		89	70 - 130	0	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1905		mg/Kg		94	70 - 130	0	35
o-Xylene	<0.00202	U	0.100	0.09699		mg/Kg		96	70 - 130	0	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-25983/1-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25983

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		05/20/22 14:10	05/20/22 22:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130	05/20/22 14:10	05/20/22 22:11	1
o-Terphenyl	115		70 - 130	05/20/22 14:10	05/20/22 22:11	1

Lab Sample ID: LCS 880-25983/2-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25983

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	614.8	*-	mg/Kg		61	70 - 130
Diesel Range Organics (Over C10-C28)	1000	822.1		mg/Kg		82	70 - 130

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## QC Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

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

Lab Sample ID: LCS 880-25983/2-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25983

	LCS %Recovery	LCS Qualifier	Limits
Surrogate			
1-Chlorooctane	89		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-25983/3-A

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 25983

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	709.2		mg/Kg		71	70 - 130	14	20
Diesel Range Organics (Over C10-C28)	1000	963.6		mg/Kg		96	70 - 130	16	20
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	91		70 - 130						
o-Terphenyl	85		70 - 130						

Lab Sample ID: 890-2320-A-1-B MS

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 25983

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	1000	988.9		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	1124		mg/Kg		109	70 - 130		
Surrogate	MS %Recovery	MS Qualifier	Limits								
1-Chlorooctane	115		70 - 130								
o-Terphenyl	106		70 - 130								

Lab Sample ID: 890-2320-A-1-C MSD

Matrix: Solid

Analysis Batch: 25940

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 25983

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	999	824.8		mg/Kg		81	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	1141		mg/Kg		111	70 - 130	2	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	116		70 - 130								
o-Terphenyl	107		70 - 130								

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## QC Sample Results

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-25994/1-A

Matrix: Solid

Analysis Batch: 26201

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			05/25/22 10:48	1

Lab Sample ID: LCS 880-25994/2-A

Matrix: Solid

Analysis Batch: 26201

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	268.1		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-25994/3-A

Matrix: Solid

Analysis Batch: 26201

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	272.3		mg/Kg		109	90 - 110	2	20

Lab Sample ID: 880-15007-A-1-B MS

Matrix: Solid

Analysis Batch: 26201

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	6880	F1	2480	10620	F1	mg/Kg		151	90 - 110

Lab Sample ID: 880-15007-A-1-C MSD

Matrix: Solid

Analysis Batch: 26201

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	6880	F1	2480	10680	F1	mg/Kg		153	90 - 110	1	20

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## QC Association Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

## GC VOA

## Prep Batch: 26015

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	5035	
890-2322-2	SS02	Total/NA	Solid	5035	
MB 880-26015/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-26015/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-26015/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2322-1 MS	SS01	Total/NA	Solid	5035	
890-2322-1 MSD	SS01	Total/NA	Solid	5035	

## Analysis Batch: 26016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	8021B	26015
890-2322-2	SS02	Total/NA	Solid	8021B	26015
MB 880-26015/5-A	Method Blank	Total/NA	Solid	8021B	26015
LCS 880-26015/1-A	Lab Control Sample	Total/NA	Solid	8021B	26015
LCSD 880-26015/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	26015
890-2322-1 MS	SS01	Total/NA	Solid	8021B	26015
890-2322-1 MSD	SS01	Total/NA	Solid	8021B	26015

## Analysis Batch: 26087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	Total BTEX	
890-2322-2	SS02	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 25940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	8015B NM	25983
890-2322-2	SS02	Total/NA	Solid	8015B NM	25983
MB 880-25983/1-A	Method Blank	Total/NA	Solid	8015B NM	25983
LCS 880-25983/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	25983
LCSD 880-25983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	25983
890-2320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	25983
890-2320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	25983

## Prep Batch: 25983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	8015NM Prep	
890-2322-2	SS02	Total/NA	Solid	8015NM Prep	
MB 880-25983/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-25983/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-25983/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 26039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Total/NA	Solid	8015 NM	
890-2322-2	SS02	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

## HPLC/IC

## Leach Batch: 25994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Soluble	Solid	DI Leach	
890-2322-2	SS02	Soluble	Solid	DI Leach	
MB 880-25994/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-25994/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-25994/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-15007-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-15007-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 26201

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2322-1	SS01	Soluble	Solid	300.0	25994
890-2322-2	SS02	Soluble	Solid	300.0	25994
MB 880-25994/1-A	Method Blank	Soluble	Solid	300.0	25994
LCS 880-25994/2-A	Lab Control Sample	Soluble	Solid	300.0	25994
LCSD 880-25994/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	25994
880-15007-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	25994
880-15007-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	25994

## Lab Chronicle

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

Client Sample ID: SS01

Lab Sample ID: 890-2322-1

Date Collected: 05/19/22 11:10

Matrix: Solid

Date Received: 05/19/22 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 17:51	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26087	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26039	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	25983	05/20/22 14:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 02:55	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	25994	05/20/22 16:11	SC	XEN MID
Soluble	Analysis	300.0		1			26201	05/25/22 12:23	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-2322-2

Date Collected: 05/19/22 11:20

Matrix: Solid

Date Received: 05/19/22 14:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	26015	05/21/22 14:33	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	26016	05/21/22 18:11	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			26087	05/23/22 11:13	SM	XEN MID
Total/NA	Analysis	8015 NM		1			26039	05/23/22 09:14	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	25983	05/20/22 14:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			25940	05/21/22 03:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	25994	05/20/22 16:11	SC	XEN MID
Soluble	Analysis	300.0		1			26201	05/25/22 12:30	CH	XEN MID

## Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX

## Method Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

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

### Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

### Laboratory References:

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

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Sample Summary

Client: Ensolum  
Project/Site: Mortarboard Federal Com 013H

Job ID: 890-2322-1  
SDG: 03D2024012

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2322-1	SS01	Solid	05/19/22 11:10	05/19/22 14:25	0.5
890-2322-2	SS02	Solid	05/19/22 11:20	05/19/22 14:25	0.5


- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14





## Chain of Custody

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Work Order Comments	
Program: UST/PST	<input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/>
State of Project:	
Reporting: Level II	<input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> TRRP <input type="checkbox"/> Level IV <input type="checkbox"/>
Deliverables: EDD	<input type="checkbox"/> ADaPT <input type="checkbox"/> Other:

ANALYSIS REQUEST										Preservative Codes		
Project Name:	Mortarboard Federal Com 013H	Turn Around		Pres. Code							None: NO	DI Water: H <sub>2</sub> O
Project Number:	03D2024012	<input checked="" type="checkbox"/> Routine	<input type="checkbox"/> Rush								Cool: Cool	MeOH: Me
Project Location:		Due Date:									HCL: HC	HNO <sub>3</sub> : HN
Sampler's Name:	Conner Shore	TAT starts the day received by the lab, if received by 4:30pm									H <sub>2</sub> SO <sub>4</sub> : H <sub>2</sub>	NaOH: Na
PO #:											H <sub>3</sub> PO <sub>4</sub> : HP	
<b>SAMPLE RECEIPT</b>		Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
Samples Received Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID:	F-14-202									
Cooler Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2									
Sample Custody Seals:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Temperature Reading:	5.2									
Total Containers:		Corrected Temperature:	5.6									
<b>Sample Identification</b>				Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont			
FS01	S	05.19.22	1110	0.5'	C	C	1	X	X	X		
FS02	S	05.19.22	1120	0.5'	C	C	1	X	X	X		
<div style="display: flex; justify-content: space-between;"> <div> <p>CHLORIDES (EPA: 300.0)</p> <p>TPH (8015)</p> <p>BTEX (8021)</p> </div> <div>  <p>890-2322 Chain of Custody</p> </div> </div>												
										Sample Comments		
<div style="display: flex; justify-content: space-between;"> <div> <p>H<sub>3</sub>PO<sub>4</sub>: HP</p> <p>NaHSO<sub>4</sub>: NABIS</p> <p>Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>: NaSO<sub>3</sub></p> <p>Zn Acetate+NaOH: Zn</p> <p>NaOH+Ascorbic Acid: SASC</p> </div> <div> <p>MeOH: Me</p> <p>HNO<sub>3</sub>: HN</p> <p>NaOH: Na</p> </div> </div>												

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
	<i>[Signature]</i>	<i>[Date/Time]</i>		<i>[Signature]</i>	<i>[Date/Time]</i>

1			S/19/72 L:252		
3				4	
5				6	

Revised Date 08/25/2020 Rev 20/20

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2322-1

SDG Number: 03D2024012

**Login Number: 2322****List Number: 1****Creator: Olivas, Nathaniel****List Source: Eurofins Carlsbad**

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

## Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-2322-1

SDG Number: 03D2024012

**Login Number: 2322****List Number: 2****Creator: Rodriguez, Leticia****List Source: Eurofins Midland****List Creation: 05/20/22 10:39 AM**

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	



## APPENDIX D

### NMOCD Notifications

**From:** [Nobui, Jennifer, EMNRD](#)  
**To:** [Kalei Jennings](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** FW: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)  
**Date:** Thursday, May 19, 2022 12:29:01 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Kalei,

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

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Sent:** Thursday, May 19, 2022 10:40 AM  
**To:** Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Subject:** Fw: [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

---

**From:** Kalei Jennings <[kjennings@ensolum.com](mailto:kjennings@ensolum.com)>  
**Sent:** Thursday, May 19, 2022 10:21 AM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Cc:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>  
**Subject:** [EXTERNAL] COP- Sampling Notification (Week of 5/23/22-5/27/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of May 23, 2022.

Monday

- Mortarboard Federal Com 013H / NAPP2206950640
- Montera Federal 10M CTB / NAPP2135442784

Tuesday

- Montera Federal 10M CTB / NAPP2135442784



Wednesday

- Macho Nacho 002H / NAPP200644754

Thursday

- Macho Nacho 002H / NAPP200644754

Friday

Thank you,



**Kalei Jennings**

Senior Scientist

817-683-2503

**Ensolum, LLC**



**From:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: [EXTERNAL] Extension Request- Mortarboard Federal Com 013H (Incident Number NAPP2206950640)  
**Date:** Tuesday, May 31, 2022 3:44:44 PM  
**Attachments:** [image001.png](#)

---

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

FYI

---

**From:** CFO\_Spill, BLM\_NM <BLM\_NM\_CFO\_Spill@blm.gov>  
**Sent:** Tuesday, May 31, 2022 11:47 AM  
**To:** Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Cc:** Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>  
**Subject:** Re: [EXTERNAL] Extension Request- Mortarboard Federal Com 013H (Incident Number NAPP2206950640)

**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.

All,

The remediation plan or closure report that is due for this incident was set for **05/27/2022**. Your request for an extension to **August 25, 2022 (90 days)** is approved. Please keep the BLM updated if any problems prevent remediation for the site.

If you need anything further, please let me know.

Thank you,

**Crisha A. Morgan** | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead

**Bureau of Land Management | Carlsbad Field Office**

620 E. Greene Street Carlsbad, NM 88220

Cell 575-200-8648 | Office 575-234-5987 | [camorgan@blm.gov](mailto:camorgan@blm.gov)

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Information Act (5.U.S.C. 552). It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with Department of Interior (DOI) policy relating to FOUO information and is not to be released to the public or other personnel who do not have need-to-know without prior approval of an authorized DOI official. **FOR OFFICIAL USE ONLY**

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**From:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>  
**Sent:** Monday, May 23, 2022 4:54 PM  
**To:** EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; CFO\_Spill, BLM\_NM <[BLM\\_NM\\_CFO\\_Spill@blm.gov](mailto:BLM_NM_CFO_Spill@blm.gov)>  
**Cc:** Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>; Fejervary Morena, Gustavo A <[G.Fejervary@conocophillips.com](mailto:G.Fejervary@conocophillips.com)>  
**Subject:** [EXTERNAL] Extension Request- Mortarboard Federal Com 013H (Incident Number NAPP2206950640)

**This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.**

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 27, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at Mortarboard Federal Com 013H (Incident Number NAPP2206950640). The release was discovered on February 26, 2022 and remediation activities were completed last week. Laboratory analytical results are currently pending. In order to review laboratory analytical results and prepare a remediation work plan or closure report, COP requests a 90-day extension of this deadline until August 25, 2022.

Respectfully,

***Charles R. Beauvais II***

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**

(M) 575-988-2043

[Charles.R.Beauvais@conocophillips.com](mailto: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:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: [EXTERNAL](Extension Request) - Mortarboard Federal Com 013H (Incident Number NAPP2206950640)  
**Date:** Tuesday, May 24, 2022 11:56:30 AM  
**Attachments:** [image002.jpg](#)  
[image003.png](#)

---

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

FYI

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Tuesday, May 24, 2022 10:54 AM  
**To:** Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>  
**Cc:** Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>  
**Subject:** [EXTERNAL](Extension Request) - Mortarboard Federal Com 013H (Incident Number NAPP2206950640)

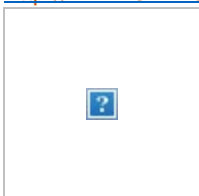
**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #NAPP2206950640

Charles,

Your request for an extension to **August 25th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced  
Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>

**Sent:** Monday, May 23, 2022 4:54 PM

**To:** EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; CFO\_Spill, BLM\_NM <[BLM\\_NM\\_CFO\\_Spill@blm.gov](mailto:BLM_NM_CFO_Spill@blm.gov)>

**Cc:** Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>; Fejervary Morena, Gustavo A <[G.Fejervary@conocophillips.com](mailto:G.Fejervary@conocophillips.com)>

**Subject:** [EXTERNAL] Extension Request- Mortarboard Federal Com 013H (Incident Number NAPP2206950640)

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

To Whom It May Concern,

COP is requesting an extension for the current deadline of May 27, 2022 for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC at Mortarboard Federal Com 013H (Incident Number NAPP2206950640). The release was discovered on February 26, 2022 and remediation activities were completed last week. Laboratory analytical results are currently pending. In order to review laboratory analytical results and prepare a remediation work plan or closure report, COP requests a 90-day extension of this deadline until August 25, 2022.

Respectfully,

***Charles R. Beauvais II***

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**

(M) 575-988-2043

[Charles.R.Beauvais@conocophillips.com](mailto: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.*





APPENDIX E  
Final C-141



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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

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

Unit Letter	Section	Township	Range	County

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

Nature and Volume of Release

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

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

Cause of Release

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Patricia Espinoza</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

Facility Name &amp; Number: Mortarboard Fed Com 13H

Asset Area: DBEN

Release Discovery Date &amp; Time: 2/26/2022 7:00AM

Release Type: Oil

Provide any known details about the event: Oil spray from low pressure flare due to VRU going down causing residual fluid spray to come from flare in low area

## Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage Spilled (Mi)
Rectangle A	15.0	10.0	0.00	4	150.000	0.000	0.000	0.000	0.000	
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Rectangle G					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					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total Volume Release:									0.000	

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 89301

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 89301
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	3/15/2022

Incident ID	NAPP2206950640
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<50 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ 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.

State of New Mexico  
Oil Conservation Division

Incident ID	NAPP2206950640
District RP	
Facility ID	
Application ID	

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

Printed Name: Charles Beauvais Title: Senior Environmental Engineer  
Signature: Charles R. Beauvais II Date: 06/09/2022  
email: Charles.R.Beauvais@conocophillips.com Telephone: (575) 988-2043

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



Incident ID	NAPP2206950640
District RP	
Facility ID	
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

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Charles Beauvais Title: Senior Environmental Engineer  
Signature: Charles R. Beauvais II Date: 06/09/2022  
email: Charles.R.Beauvais@conocophilips.com Telephone: (575) 988-2043

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 07/06/2022  
Printed Name: Jennifer Nobui Title: Environmental Specialist A

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 120259

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 120259
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	7/6/2022