Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2303047441
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: _Justin Carlile_____ Title: _Senior Environmental Engineer_____

Signature: Justin Carlile _____ Date: __4/142023_____

email: __Justin.Carlile@Conocophillips.com_____ Telephone: ___432-202-4112_____

OCD Only

Received by: ____Jocelyn Harimon_____ Date: ___04/20/2023___

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: Robert Hamlet _____ Date: 9/8/2023

Printed Name: Robert Hamlet _____ Title: Environmental Specialist - Advanced

ENSOLUM

April 14, 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
Cabo Wabo Federal Com 801H
Incident Number NAPP2303047441
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Cabo Wabo Federal Com 801H (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of produced water into the adjacent pasture at the Site. Based on field observations, excavation activities, and laboratory analytical results from soil sampling events, COG is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2303047441.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 24, Township 25 South, Range 29 East, in Eddy County, New Mexico (32.1225°, -103.9338°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 16, 2023, internal corrosion on a flowline resulted in the release of approximately 4.236 barrels (bbls) of produced water into the surrounding pasture area. No free-standing fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 (Form C-141) on January 30, 2023. The release was assigned Incident Number NAPP2303047441.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 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 C-04558-POD 1, located approximately 1.6 miles north of the Site. The groundwater well has a reported depth to groundwater greater than 109 feet bgs. Ground surface elevation at the groundwater well location is 3,082 feet above mean sea level (amsl), which is approximately 89 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 riverine, located approximately 290 feet 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, or church.The Site is less than 300 feet from a 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 (medium 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): 100 mg/kg
- Chloride: 600 mg/kg

INITIAL ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On March 13, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven preliminary soil samples (SS01 through SS07) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess surficial soil associated with the release. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included as Appendix 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 under strict chain-of-custody procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-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.

Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the release. Laboratory analytical results for preliminary soil sample SS07, collected at 0.5 feet bgs within the release extent, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for soil samples SS05 and SS06, collected within the release at a depth of 0.5 feet bgs, indicated chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil samples SS05 and SS06, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On April 5, 2023, Ensolum personnel were at the Site to oversee excavation activities based on laboratory analytical results for soil samples SS05 and SS06. Excavation activities were performed using a backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and

chloride. The excavation was completed to depths ranging from 1.5 feet to 3 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS04 were collected from the floor of the excavation at depths ranging from 1.5 feet to 3 feet bgs. Composite soil samples SW01 and SW02 were collected from the sidewalls of the excavation at depths ranging from ground surface to 3 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

Laboratory analytical results for the excavation floor soil samples FS01 through FS04, and excavation sidewall soil samples SW01 through SW02, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

The excavation area measured approximately 700 square feet in areal size. A total of 60 cubic yards of impacted soil was removed, transported, and properly disposed of at R360 Environmental Solutions in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

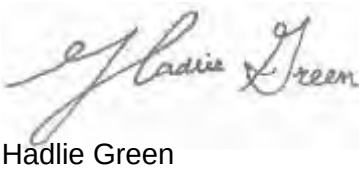
CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 8, 2023, release of produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Based on the soil sample analytical results, no further remediation appears warranted. COG will backfill the excavation with material purchased locally, recontour the Site to match pre-existing site conditions and re-seed the disturbed area with the appropriate BLM seed mixture during the next possible growing season for optimal growth.

Excavation of impacted soil has mitigated impacts at this Site. COG believes these remedial actions are protective of human health, the environment, and groundwater. As such, COG respectfully requests closure for Incident Number NAPP2303047441.

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 Geologist

Daniel R. Moir, PG
Senior Managing Geologist

cc: Justin Carlile, COG Operating, LLC
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	Final C-141
Appendix E	NMOCD Notifications

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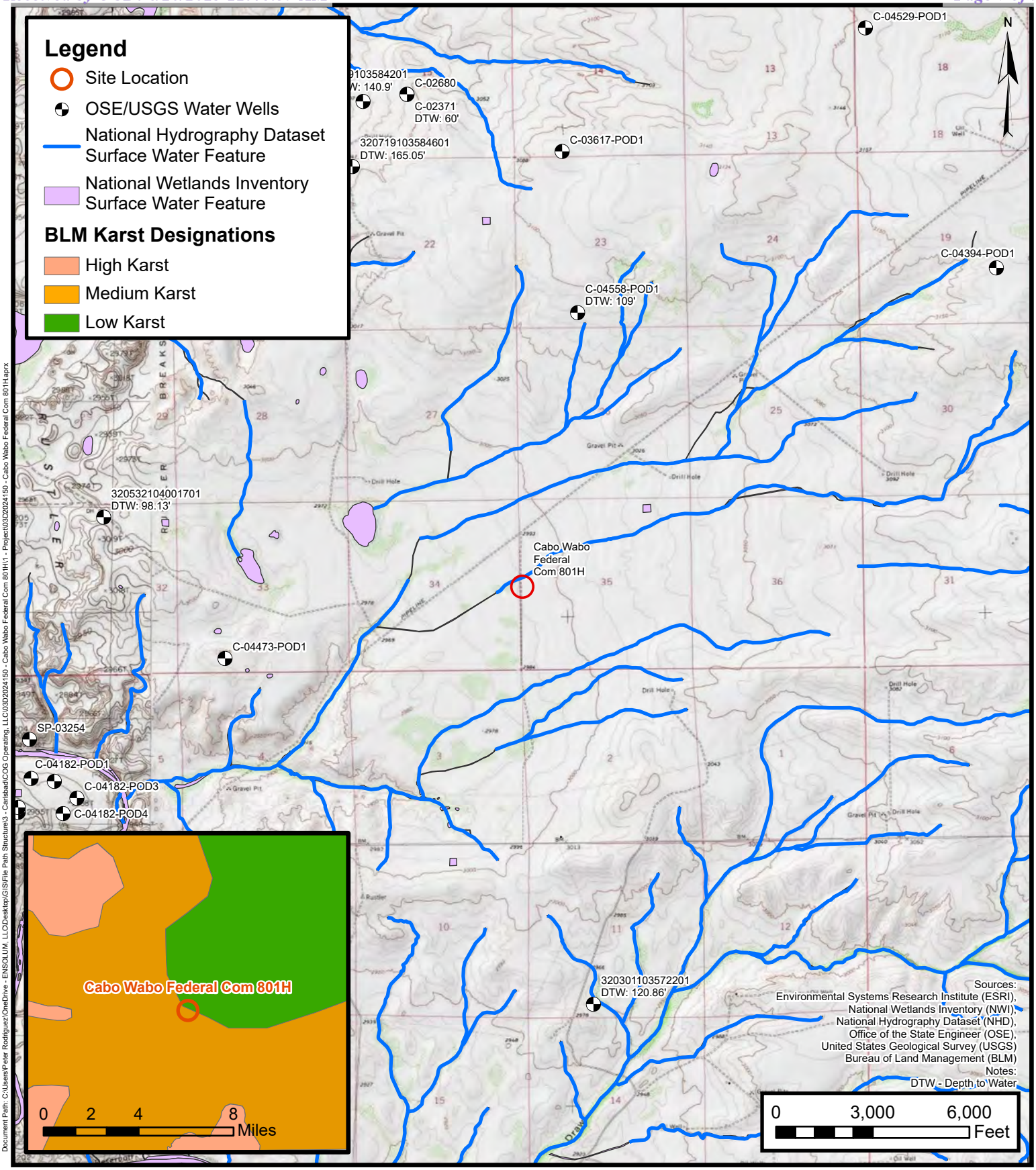
FIGURES



Document Path: C:\Users\Peter Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\COG Operating, LLC\03D22024150 - Cabo Wabo Federal Com 801H\1 - Project\03D22024150 - Cabo Wabo Federal Com 801H.aprx

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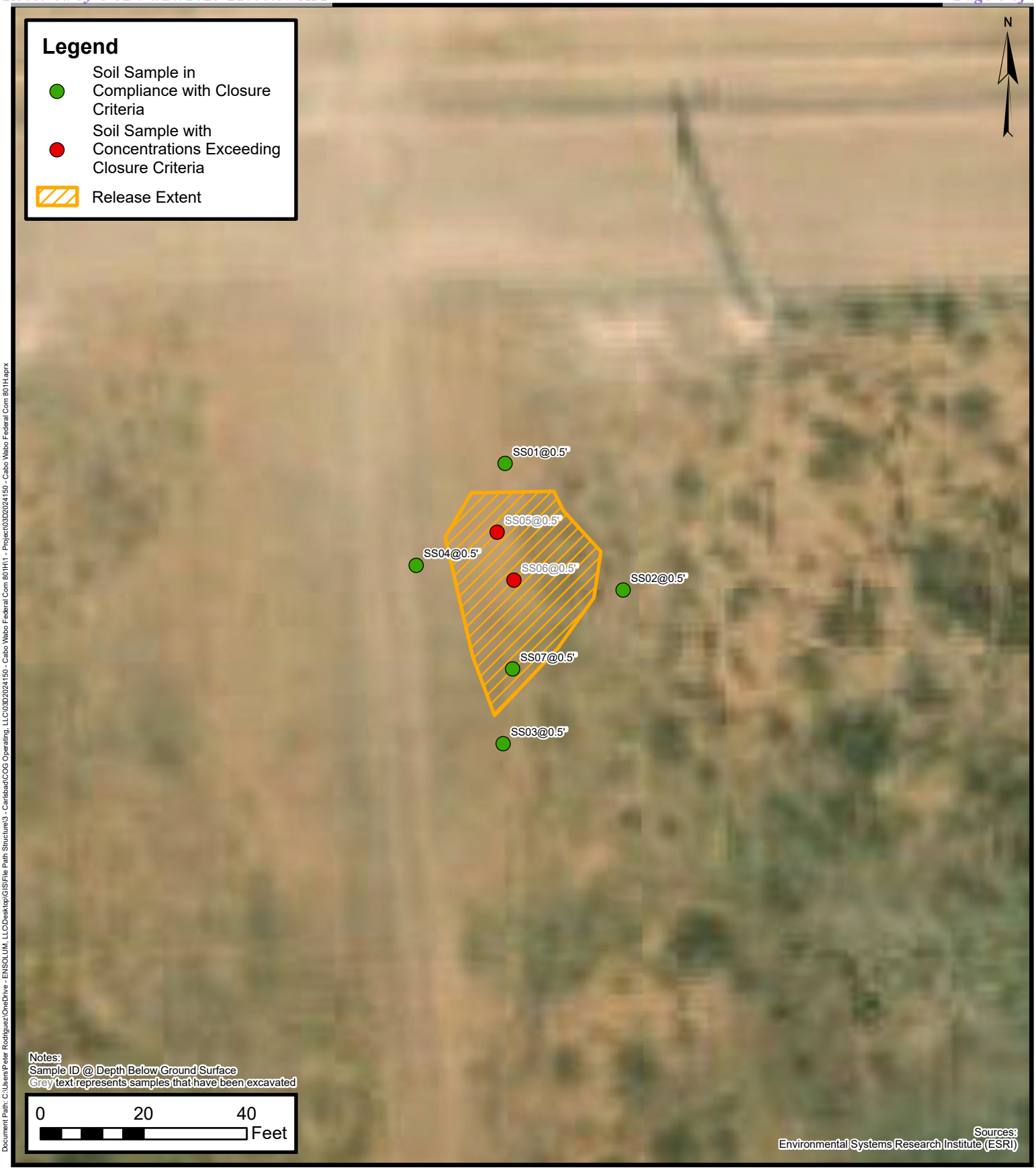
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

COG Operating, LLC
Cabo Wabo Federal Com 801H
Incident ID: NAPP2303047441
Unit B, Section 24, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE
1



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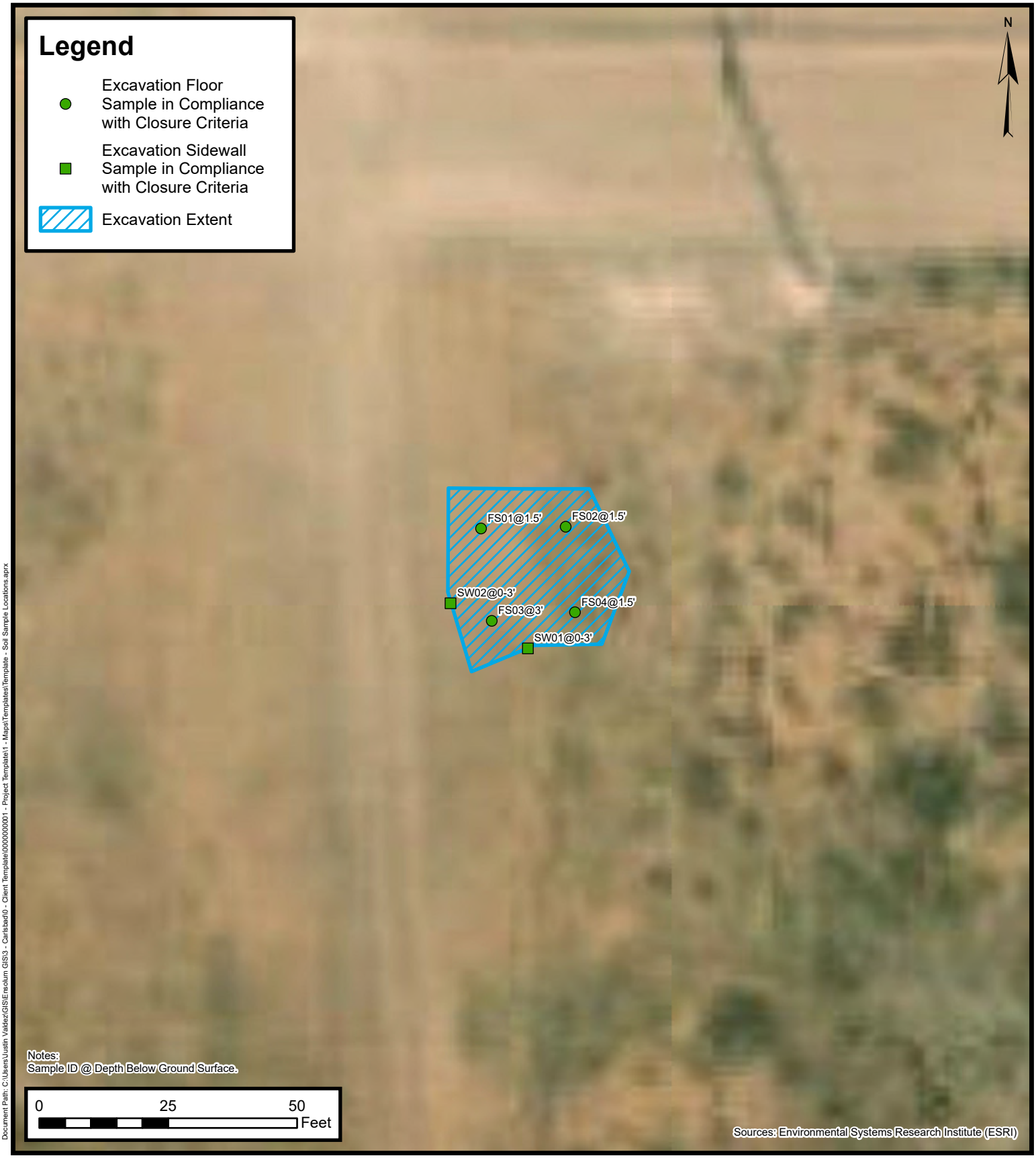
Preliminary Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal Com 801H
Incident ID: NAPP2303047441
Unit B, Section 24, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE
2



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Excavation Soil Sample Locations

COG Operating, LLC
Cabo Wabo Federal Com 801H
Incident ID: NAPP2303047441
Unit B, Section 24, Township 25S, Range 29E
Eddy County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Cabo Wabo Federal Com 801H
COG Operating, LLC
Eddy County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**NE**	**100**	**600**
Preliminary Assessment Soil Samples										
SS01	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	37.0
SS02	03/13/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	71.2
SS03	03/13/2023	0.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	5.98
SS04	03/13/2023	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96
SS05	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**5,730**
SS06	03/13/2023	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	**6,100**
SS07	03/13/2023	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	143
Excavation Floor Soil Samples										
FS01	04/05/2023	1.5	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	235
FS02	04/05/2023	1.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	105
FS03	04/05/2023	3	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	179
FS04	04/05/2023	1.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.5
Excavation Sidewall Soil Samples										
SW01	04/05/2023	0 - 3	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	294
SW02	04/05/2023	0 - 3	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	275

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey *text represents samples that have been excavated*

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APPENDIX A

Referenced Well Records

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE DII AUG 17 2021 PM3:21

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4558

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	6	33.90	N
	LONGITUDE	103	57	27.03	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SE SW Sec. 23 T25S R29E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
07/21/2021	07/21/2021	temporary well material	109	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☐ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☑ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	109	±6.5	Boring- HSA	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4558	POD NO. 1	TRN NO. 699798	
LOCATION 25S-29E-23 343		WELL TAG ID NO.	PAGE 1 OF 2

OSE DIT AUG 17 2021 PM3:21

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	5	5	Calichem moderate consolidation, Off White	Y ✓ N	
5	23	18	Sand, poorly graded, some silt, Light Brown	Y ✓ N	
23	39	16	Sand, Fine-medium grain, poorly graded, some gravel, Light Brown	Y ✓ N	
39	44	5	Sand, Fine-medium grain, poorly graded, some gravel and clay, Light Brown	Y ✓ N	
44	65	21	Sand, Fine-medium grain, poorly graded, Light Brown	Y ✓ N	
65	70	5	Clay Sand, poorly graded, Light Brown, moist	Y ✓ N	
70	108	28	Sand, Fine-medium grain, poorly graded, Light Brown	Y ✓ N	
108	109	1	Sandstone, poorly sorted, interbedded with clay , moist	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge, Carmelo Trevino, Cameron Pruitt

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 08/16/2021

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4558	POD NO. 1	TRN NO. 699798	
LOCATION 25S-29E-23 343		WELL TAG ID NO.	PAGE 2 OF 2

2020 OCT 27 PM 1:08

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
POD1 (BH-01)	n/a	C-4473

WELL OWNER NAME(S)	PHONE (OPTIONAL)
XTO Energy (Kyle Littrell)	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
6401 Holiday Hill Dr.	Midland	TX	79707

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32°	4'	48.72"	N
	LONGITUDE	-103°	59'	35.46"	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

SW SE SW Sec. 33 T25S R29E

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
1249	Jackie D. Atkins	Atkins Engineering Associates, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
10/12/20	10/12/20	temporary well material	110	n/a

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT): n/a

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY: Hollow Stem Auger

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
0	25	±8.5	Boring- HSA	--	--	--	--
25	55	±4.5	Boring- Air Rotary	--	--	--	--

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4473	POD NO. 1	TRN NO. 677406	
LOCATION 433 T25S R29E Sec 33		WELL TAG ID NO. NA	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0	1	30	Clayey Sand, Medium , poorly-graded with silt, no plasticity, Light Brown	Y ✓ N	
1	17	15	Caliche, Consolidated, very silty, Off White-Pink	Y ✓ N	
17	25	8	Sandstone, with gravel, well-graded, coarse to fine-grained ,Brown	Y ✓ N	
25	30	5	Mudstone, cohesive, moderately consolidated, Redish-Brown	Y ✓ N	
30	55	25	Sandstone, mod. consolidated, very fined grained,poorly-graded, Red Brown	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from LTE on-site geologist.

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

Shane Eldridge

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:

Jack Atkins — Jackie D. Atkins — 10/26/2020

SIGNATURE OF DRILLER / PRINT SIGNEE NAME — DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO. C-4473	POD NO. 1	TRN NO. 677406	
LOCATION 433 T25S R29E Sec33		WELL TAG ID NO. NA	PAGE 2 OF 2

John R. D Antonio, Jr., P.E.
State Engineer

Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER

Trn Nbr: 677406
File Nbr: C 04473
Well File Nbr: C 04473 POD1

Nov. 18, 2020

TACOMA MORRISSEY
LT ENVIRONMENTAL INC
508 WEST STEVENS
CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 09/02/2020.

The Well Record was received in this office on 10/29/2020, stating that it had been completed on 10/12/2020, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/02/2021.

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

Sincerely,

Andrew Dennis
(575)622-6521

drywell

2020-10-26_C-4473POD1_OSE_Well Record and Log-wb-forsign

Final Audit Report 2020-10-27

Created:	2020-10-27
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA_fnD1AtNBjHgBc1H0ehlMQdoVvHLvFdG

"2020-10-26_C-4473POD1_OSE_Well Record and Log-wb-forsign" History

Document created by Lucas Middleton (lucas@atkinseng.com)
2020-10-27 - 3:12:46 PM GMT- IP address: 69.21.248.123

Document emailed to Jack Atkins (jack@atkinseng.com) for signature
2020-10-27 - 3:13:15 PM GMT

Email viewed by Jack Atkins (jack@atkinseng.com)
2020-10-27 - 3:13:54 PM GMT- IP address: 74.50.153.115

Document e-signed by Jack Atkins (jack@atkinseng.com)
Signature Date: 2020-10-27 - 3:17:09 PM GMT - Time Source: server- IP address: 74.50.153.115

Agreement completed.
2020-10-27 - 3:17:09 PM GMT

Adobe Sign

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 320532104001701

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 320532104001701 25S.29E.32.21111

Eddy County, New Mexico
Latitude 32°05'32", Longitude 104°00'17" NAD27
Land-surface elevation 2,988 feet above NAVD88
The depth of the well is 128 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
This well is completed in the Rustler Formation (312RSLR) 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 measur
1949-03-11		D	62610		2871.10	NGVD29	1	Z		
1949-03-11		D	62611		2872.66	NAVD88	1	Z		
1949-03-11		D	72019	115.34			1	Z		
1958-08-19		D	62610		2887.81	NGVD29	1	Z		
1958-08-19		D	62611		2889.37	NAVD88	1	Z		
1958-08-19		D	72019	98.63			1	Z		
1959-03-24		D	62610		2887.84	NGVD29	1	Z		
1959-03-24		D	62611		2889.40	NAVD88	1	Z		
1959-03-24		D	72019	98.60			1	Z		
1978-01-13		D	62610		2891.21	NGVD29	1	Z		
1978-01-13		D	62611		2892.77	NAVD88	1	Z		
1978-01-13		D	72019	95.23			1	Z		
1983-02-01		D	62610		2890.81	NGVD29	1	Z		
1983-02-01		D	62611		2892.37	NAVD88	1	Z		
1983-02-01		D	72019	95.63			1	Z		
1987-10-14		D	62610		2889.75	NGVD29	1	Z		

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
1987-10-14		D	62611		2891.31	NAVD88	1	Z		
1987-10-14		D	72019	96.69			1	Z		
1988-04-06		D	62610		2889.51	NGVD29	1	Z		
1988-04-06		D	62611		2891.07	NAVD88	1	Z		
1988-04-06		D	72019	96.93			1	Z		
1992-11-03		D	62610		2888.31	NGVD29	1	S		
1992-11-03		D	62611		2889.87	NAVD88	1	S		
1992-11-03		D	72019	98.13			1	S		

Explanation

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

ENSOLUM

APPENDIX B

Photographic Log

ENSOLUM

Photographic Log
COG Operating, LLC
Cabo Wabo Federal Com 801H
Incident Number NAPP2303047441

Photograph: 1 Date: 1/16/2023
Description: Initial release extent
View: Northeast

Photograph: 2 Date: 3/13/2023
Description: Initial assessment activities
View: East

Photograph: 3 Date: 4/5/2023
Description: Excavation Activities
View: West

Photograph: 4 Date: 4/5/2023
Description: Excavation Activities
View: East

ENSOLUM

APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/28/2023 7:58:51 AM

JOB DESCRIPTION

Cabo Wabo Federal Com 801H
SDG NUMBER 03D2024150

JOB NUMBER

890-4321-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

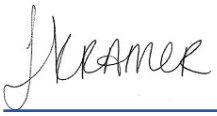
See page two for job notes and contact information.

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
3/28/2023 7:58:51 AM

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

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Laboratory Job ID: 890-4321-1
SDG: 03D2024150

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
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"
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: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Job ID: 890-4321-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4321-1

Receipt
The samples were received on 3/15/2023 2:29 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 5.2°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6) and SS07 (890-4321-7).

GC VOA
Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6), SS07 (890-4321-7), (CCV 880-49342/2), (CCV 880-49342/20), (CCV 880-49342/33), (LCS 880-49291/1-A), (LCSD 880-49291/2-A), (MB 880-49291/5-A), (890-4309-A-1-F), (890-4309-A-1-D MS) and (890-4309-A-1-E MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-49012 and analytical batch 880-49067 was outside the upper control limits.

Method 8015MOD_NM: The method blank for preparation batch 880-49012 and analytical batch 880-49067 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 duplicate (MSD) recoveries for preparation batch 880-49264 and analytical batch 880-49491 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.The associated samples are: SS01 (890-4321-1), SS02 (890-4321-2), SS03 (890-4321-3), SS04 (890-4321-4), SS05 (890-4321-5), SS06 (890-4321-6), SS07 (890-4321-7) and (890-4321-A-1-D MSD).

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: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS01

Lab Sample ID: 890-4321-1
Matrix: Solid
Date Collected: 03/13/23 09:50
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 21:43	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 21:43	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 21:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 21:43	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 21:43	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 21:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*156*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 21:43*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/23/23 08:54*	*03/23/23 21:43*	*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			03/27/23 13:18	1

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			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 16:36	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 16:36	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 16:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*03/20/23 13:48*	*03/21/23 16:36*	*1*
o-Terphenyl	*86*		*70 - 130*	*03/20/23 13:48*	*03/21/23 16:36*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.0**	**F1**	5.04		mg/Kg			03/27/23 16:42	1

Client Sample ID: SS02

Lab Sample ID: 890-4321-2
Matrix: Solid
Date Collected: 03/13/23 09:55
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/23/23 22:08	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/23/23 08:54	03/23/23 22:08	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/23/23 08:54	03/23/23 22:08	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/23/23 08:54	03/23/23 22:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*157*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 22:08*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS02

Lab Sample ID: 890-4321-2
Matrix: Solid
Date Collected: 03/13/23 09:55
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/23/23 08:54*	*03/23/23 22:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/27/23 13:18	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/20/23 13:48*	*03/21/23 16:59*	*1*
o-Terphenyl	*91*		*70 - 130*	*03/20/23 13:48*	*03/21/23 16:59*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**71.2**		4.99	mg/Kg			03/27/23 16:56	1

Client Sample ID: SS03

Lab Sample ID: 890-4321-3
Matrix: Solid
Date Collected: 03/13/23 10:00
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/23 08:54	03/23/23 22:34	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/23 08:54	03/23/23 22:34	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/23 08:54	03/23/23 22:34	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/23/23 08:54	03/23/23 22:34	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/23 08:54	03/23/23 22:34	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/23/23 08:54	03/23/23 22:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*158*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 22:34*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/23/23 08:54*	*03/23/23 22:34*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/27/23 13:18	1

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			03/22/23 16:11	1

Eurofins Carlsbad

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS03

Lab Sample ID: 890-4321-3
Matrix: Solid
Date Collected: 03/13/23 10:00
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*03/20/23 13:48*	*03/21/23 17:21*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/20/23 13:48*	*03/21/23 17:21*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.98**		4.97		mg/Kg			03/25/23 17:38	1

Client Sample ID: SS04

Lab Sample ID: 890-4321-4
Matrix: Solid
Date Collected: 03/13/23 10:05
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/23/23 08:54	03/23/23 23:00	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/23/23 08:54	03/23/23 23:00	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/23/23 08:54	03/23/23 23:00	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/23/23 08:54	03/23/23 23:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*151*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 23:00*	*1*
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*03/23/23 08:54*	*03/23/23 23:00*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/27/23 13:18	1

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			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 17:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*03/20/23 13:48*	*03/21/23 17:43*	*1*
o-Terphenyl	*82*		*70 - 130*	*03/20/23 13:48*	*03/21/23 17:43*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS04

Lab Sample ID: 890-4321-4
Matrix: Solid
Date Collected: 03/13/23 10:05
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U	4.96		mg/Kg			03/25/23 17:43	1

Client Sample ID: SS05

Lab Sample ID: 890-4321-5
Matrix: Solid
Date Collected: 03/13/23 10:30
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 23:26	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:26	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 23:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*165*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 23:26*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/23/23 08:54*	*03/23/23 23:26*	*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			03/27/23 13:18	1

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			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:05	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:05*	*1*
o-Terphenyl	*93*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5730**		50.0		mg/Kg			03/25/23 17:48	10

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS06

Lab Sample ID: 890-4321-6
Matrix: Solid
Date Collected: 03/13/23 10:35
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 23:53	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/23/23 08:54	03/23/23 23:53	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/23/23 08:54	03/23/23 23:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*155*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/23/23 23:53*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/23/23 08:54*	*03/23/23 23:53*	*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			03/27/23 13:18	1

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			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:27	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/20/23 13:48	03/21/23 18:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:27*	*1*
o-Terphenyl	*83*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:27*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6100**		50.2		mg/Kg			03/25/23 18:01	10

Client Sample ID: SS07

Lab Sample ID: 890-4321-7
Matrix: Solid
Date Collected: 03/13/23 10:40
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/24/23 01:39	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/23/23 08:54	03/24/23 01:39	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/24/23 01:39	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/23/23 08:54	03/24/23 01:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*	*03/23/23 08:54*	*03/24/23 01:39*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS07

Date Collected: 03/13/23 10:40
Date Received: 03/15/23 14:29
Sample Depth: 0.5'

Lab Sample ID: 890-4321-7

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/23/23 08:54*	*03/24/23 01:39*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/27/23 13:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/22/23 16:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/20/23 13:48	03/21/23 18:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/20/23 13:48	03/21/23 18:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/20/23 13:48	03/21/23 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:50*	*1*
o-Terphenyl	*79*		*70 - 130*	*03/20/23 13:48*	*03/21/23 18:50*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**143**		5.01		mg/Kg			03/25/23 18:06	1

Surrogate Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

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)
890-4309-A-1-D MS	Matrix Spike	171 S1+	87
890-4309-A-1-E MSD	Matrix Spike Duplicate	168 S1+	98
890-4321-1	SS01	156 S1+	79
890-4321-2	SS02	157 S1+	82
890-4321-3	SS03	158 S1+	80
890-4321-4	SS04	151 S1+	89
890-4321-5	SS05	165 S1+	80
890-4321-6	SS06	155 S1+	83
890-4321-7	SS07	161 S1+	79
LCS 880-49291/1-A	Lab Control Sample	154 S1+	69 S1-
LCSD 880-49291/2-A	Lab Control Sample Dup	161 S1+	91
MB 880-49291/5-A	Method Blank	100	76

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 Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-4320-A-1-B MS	Matrix Spike	118	96
890-4320-A-1-C MSD	Matrix Spike Duplicate	87	84
890-4321-1	SS01	86	86
890-4321-2	SS02	98	91
890-4321-3	SS03	102	101
890-4321-4	SS04	82	82
890-4321-5	SS05	93	93
890-4321-6	SS06	82	83
890-4321-7	SS07	79	79
LCS 880-49012/2-A	Lab Control Sample	90	99
LCSD 880-49012/3-A	Lab Control Sample Dup	101	112
MB 880-49012/1-A	Method Blank	128	133 S1+

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49291/5-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49291

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/23 08:54	03/23/23 19:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/23 08:54	03/23/23 19:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/23/23 08:54*	*03/23/23 19:34*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/23/23 08:54*	*03/23/23 19:34*	*1*

Lab Sample ID: LCS 880-49291/1-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49291

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1140		mg/Kg		114	70 - 130		
Toluene			0.100	0.1015		mg/Kg		101	70 - 130		
Ethylbenzene			0.100	0.1191		mg/Kg		119	70 - 130		
m-Xylene & p-Xylene			0.200	0.2517		mg/Kg		126	70 - 130		
o-Xylene			0.100	0.1206		mg/Kg		121	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*

Lab Sample ID: LCSD 880-49291/2-A
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49291

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1232		mg/Kg		123	70 - 130	8	35
Toluene			0.100	0.1003		mg/Kg		100	70 - 130	1	35
Ethylbenzene			0.100	0.1188		mg/Kg		119	70 - 130	0	35
m-Xylene & p-Xylene			0.200	0.2526		mg/Kg		126	70 - 130	0	35
o-Xylene			0.100	0.1215		mg/Kg		121	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*161*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: 890-4309-A-1-D MS
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00200	U	0.100	0.08291		mg/Kg		83	70 - 130		
Toluene	<0.00200	U	0.100	0.07383		mg/Kg		74	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

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

Lab Sample ID: 890-4309-A-1-D MS
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00200	U	0.100	0.07977		mg/Kg		80	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.1666		mg/Kg		83	70 - 130
o-Xylene	<0.00200	U	0.100	0.08092		mg/Kg		81	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*171*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*

Lab Sample ID: 890-4309-A-1-E MSD
Matrix: Solid
Analysis Batch: 49342

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49291

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0990	0.1086		mg/Kg		110	70 - 130	27	35
Toluene	<0.00200	U	0.0990	0.09435		mg/Kg		95	70 - 130	24	35
Ethylbenzene	<0.00200	U	0.0990	0.09886		mg/Kg		100	70 - 130	21	35
m-Xylene & p-Xylene	<0.00399	U	0.198	0.2056		mg/Kg		104	70 - 130	21	35
o-Xylene	<0.00200	U	0.0990	0.09713		mg/Kg		98	70 - 130	18	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*168*	*S1+*	*70 - 130*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*

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

Lab Sample ID: MB 880-49012/1-A
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 49012

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		03/20/23 13:48	03/21/23 08:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 08:28	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/20/23 13:48	03/21/23 08:28	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*128*		*70 - 130*	*03/20/23 13:48*	*03/21/23 08:28*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*03/20/23 13:48*	*03/21/23 08:28*	*1*

Lab Sample ID: LCS 880-49012/2-A
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49012

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	857.2		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	846.3		mg/Kg		85	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

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

Lab Sample ID: LCS 880-49012/2-A
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 49012

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-49012/3-A
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 49012

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	840.2		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	962.9		mg/Kg		96	70 - 130	13	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 890-4320-A-1-B MS
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 49012

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	998	966.0		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	998	943.6		mg/Kg		91	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: 890-4320-A-1-C MSD
Matrix: Solid
Analysis Batch: 49067

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 49012

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	<49.9	U F1	999	942.1		mg/Kg		92	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	832.9		mg/Kg		80	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	84		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49264/1-A
Matrix: Solid
Analysis Batch: 49491

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			03/25/23 17:07	1

Lab Sample ID: LCS 880-49264/2-A
Matrix: Solid
Analysis Batch: 49491

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	252.8		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-49264/3-A
Matrix: Solid
Analysis Batch: 49491

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	262.5		mg/Kg		105	90 - 110	4	20

Lab Sample ID: 890-4321-1 MS
Matrix: Solid
Analysis Batch: 49491

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	37.0	F1	252	314.6		mg/Kg		110	90 - 110		

Lab Sample ID: 890-4321-1 MSD
Matrix: Solid
Analysis Batch: 49491

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	37.0	F1	252	328.3	F1	mg/Kg		116	90 - 110	4	20

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

GC VOA

Prep Batch: 49291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	5035	
890-4321-2	SS02	Total/NA	Solid	5035	
890-4321-3	SS03	Total/NA	Solid	5035	
890-4321-4	SS04	Total/NA	Solid	5035	
890-4321-5	SS05	Total/NA	Solid	5035	
890-4321-6	SS06	Total/NA	Solid	5035	
890-4321-7	SS07	Total/NA	Solid	5035	
MB 880-49291/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	5035	
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8021B	49291
890-4321-2	SS02	Total/NA	Solid	8021B	49291
890-4321-3	SS03	Total/NA	Solid	8021B	49291
890-4321-4	SS04	Total/NA	Solid	8021B	49291
890-4321-5	SS05	Total/NA	Solid	8021B	49291
890-4321-6	SS06	Total/NA	Solid	8021B	49291
890-4321-7	SS07	Total/NA	Solid	8021B	49291
MB 880-49291/5-A	Method Blank	Total/NA	Solid	8021B	49291
LCS 880-49291/1-A	Lab Control Sample	Total/NA	Solid	8021B	49291
LCSD 880-49291/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49291
890-4309-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	49291
890-4309-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49291

Analysis Batch: 49632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	Total BTEX	
890-4321-2	SS02	Total/NA	Solid	Total BTEX	
890-4321-3	SS03	Total/NA	Solid	Total BTEX	
890-4321-4	SS04	Total/NA	Solid	Total BTEX	
890-4321-5	SS05	Total/NA	Solid	Total BTEX	
890-4321-6	SS06	Total/NA	Solid	Total BTEX	
890-4321-7	SS07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49012

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8015NM Prep	
890-4321-2	SS02	Total/NA	Solid	8015NM Prep	
890-4321-3	SS03	Total/NA	Solid	8015NM Prep	
890-4321-4	SS04	Total/NA	Solid	8015NM Prep	
890-4321-5	SS05	Total/NA	Solid	8015NM Prep	
890-4321-6	SS06	Total/NA	Solid	8015NM Prep	
890-4321-7	SS07	Total/NA	Solid	8015NM Prep	
MB 880-49012/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49012/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

GC Semi VOA (Continued)

Prep Batch: 49012 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-49012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49067

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8015B NM	49012
890-4321-2	SS02	Total/NA	Solid	8015B NM	49012
890-4321-3	SS03	Total/NA	Solid	8015B NM	49012
890-4321-4	SS04	Total/NA	Solid	8015B NM	49012
890-4321-5	SS05	Total/NA	Solid	8015B NM	49012
890-4321-6	SS06	Total/NA	Solid	8015B NM	49012
890-4321-7	SS07	Total/NA	Solid	8015B NM	49012
MB 880-49012/1-A	Method Blank	Total/NA	Solid	8015B NM	49012
LCS 880-49012/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49012
LCSD 880-49012/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49012
890-4320-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49012
890-4320-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49012

Analysis Batch: 49233

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Total/NA	Solid	8015 NM	
890-4321-2	SS02	Total/NA	Solid	8015 NM	
890-4321-3	SS03	Total/NA	Solid	8015 NM	
890-4321-4	SS04	Total/NA	Solid	8015 NM	
890-4321-5	SS05	Total/NA	Solid	8015 NM	
890-4321-6	SS06	Total/NA	Solid	8015 NM	
890-4321-7	SS07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Soluble	Solid	DI Leach	
890-4321-2	SS02	Soluble	Solid	DI Leach	
890-4321-3	SS03	Soluble	Solid	DI Leach	
890-4321-4	SS04	Soluble	Solid	DI Leach	
890-4321-5	SS05	Soluble	Solid	DI Leach	
890-4321-6	SS06	Soluble	Solid	DI Leach	
890-4321-7	SS07	Soluble	Solid	DI Leach	
MB 880-49264/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49264/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49264/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4321-1 MS	SS01	Soluble	Solid	DI Leach	
890-4321-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 49491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-1	SS01	Soluble	Solid	300.0	49264
890-4321-2	SS02	Soluble	Solid	300.0	49264
890-4321-3	SS03	Soluble	Solid	300.0	49264

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

HPLC/IC (Continued)

Analysis Batch: 49491 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4321-4	SS04	Soluble	Solid	300.0	49264
890-4321-5	SS05	Soluble	Solid	300.0	49264
890-4321-6	SS06	Soluble	Solid	300.0	49264
890-4321-7	SS07	Soluble	Solid	300.0	49264
MB 880-49264/1-A	Method Blank	Soluble	Solid	300.0	49264
LCS 880-49264/2-A	Lab Control Sample	Soluble	Solid	300.0	49264
LCSD 880-49264/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49264
890-4321-1 MS	SS01	Soluble	Solid	300.0	49264
890-4321-1 MSD	SS01	Soluble	Solid	300.0	49264

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS01
Date Collected: 03/13/23 09:50
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 21:43	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 16:36	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/27/23 16:42	SMC	EET MID

Client Sample ID: SS02
Date Collected: 03/13/23 09:55
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 22:08	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 16:59	SM	EET MID
Soluble	Leach	DI Leach			5.01 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/27/23 16:56	SMC	EET MID

Client Sample ID: SS03
Date Collected: 03/13/23 10:00
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-3
Matrix: Solid

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	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 22:34	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 17:21	SM	EET MID
Soluble	Leach	DI Leach			5.03 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 17:38	SMC	EET MID

Client Sample ID: SS04
Date Collected: 03/13/23 10:05
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:00	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS04
Date Collected: 03/13/23 10:05
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 17:43	SM	EET MID
Soluble	Leach	DI Leach			5.04 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 17:43	SMC	EET MID

Client Sample ID: SS05
Date Collected: 03/13/23 10:30
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:05	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49491	03/25/23 17:48	SMC	EET MID

Client Sample ID: SS06
Date Collected: 03/13/23 10:35
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/23/23 23:53	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:27	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		10	50 mL	50 mL	49491	03/25/23 18:01	SMC	EET MID

Client Sample ID: SS07
Date Collected: 03/13/23 10:40
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	49291	03/23/23 08:54	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49342	03/24/23 01:39	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49632	03/27/23 13:18	AJ	EET MID
Total/NA	Analysis	8015 NM		1			49233	03/22/23 16:11	AJ	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49012	03/20/23 13:48	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49067	03/21/23 18:50	SM	EET MID

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Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Client Sample ID: SS07

Date Collected: 03/13/23 10:40
Date Received: 03/15/23 14:29

Lab Sample ID: 890-4321-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.99 g	50 mL	49264	03/22/23 22:06	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	49491	03/25/23 18:06	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

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: Cabo Wabo Federal Com 801H

Job ID: 890-4321-1
SDG: 03D2024150

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4321-1	SS01	Solid	03/13/23 09:50	03/15/23 14:29	0.5'
890-4321-2	SS02	Solid	03/13/23 09:55	03/15/23 14:29	0.5'
890-4321-3	SS03	Solid	03/13/23 10:00	03/15/23 14:29	0.5'
890-4321-4	SS04	Solid	03/13/23 10:05	03/15/23 14:29	0.5'
890-4321-5	SS05	Solid	03/13/23 10:30	03/15/23 14:29	0.5'
890-4321-6	SS06	Solid	03/13/23 10:35	03/15/23 14:29	0.5'
890-4321-7	SS07	Solid	03/13/23 10:40	03/15/23 14:29	0.5'

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Chain of Custody

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

Work Order No: _____

www.xenco.com Page 1 of 1

Project Manager:	Hadlie Green	Bill to: (if different)	Hadlie Green
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cabo Wabo Federal Com 801H	Turn Around	☑ Routine ☐ Rush
Project Number:	03D2024150	Due Date:	
Project Location:	32.1225,-103.9338	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Peter Van Patten		
PO #:			

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	TAM-007
Cooler Custody Seals:	Yes No N/A	Correction Factor:	0.2
Sample Custody Seals:	Yes No N/A	Temperature Reading:	5.4
Total Containers:		Corrected Temperature:	5.6

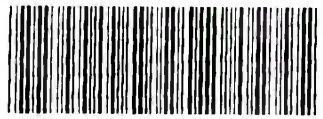
Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2S0_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)	Sample Comments
SS01	Soil	3/13/2023	950	0.5'	Comp	1		x	x	x	
SS02	Soil	3/13/2023	955	0.5'	Comp	1		x	x	x	
SS03	Soil	3/13/2023	1000	0.5'	Comp	1		x	x	x	
SS04	Soil	3/13/2023	1005	0.5'	Comp	1		x	x	x	
SS05	Soil	3/13/2023	1030	0.5'	Comp	1		x	x	x	
SS06	Soil	3/13/2023	1035	0.5'	Comp	1		x	x	x	
SS07	Soil	3/13/2023	1040	0.5'	Comp	1		x	x	x	

ANALYSIS REQUEST

Parameters



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
1 Peter Van Patten	Amanda Short	3/15/23 1429	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev: 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4321-1
SDG Number: 03D2024150

Login Number: 4321
List Number: 1
Creator: Stutzman, Amanda

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.	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: 890-4321-1
SDG Number: 03D2024150

Login Number: 4321
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 03/17/23 11:17 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	

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ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/13/2023 4:38:03 PM

JOB DESCRIPTION

Cabo Wabo Federal Com 801H
SDG NUMBER 03D2024150

JOB NUMBER

890-4472-1

Eurofins Carlsbad
1089 N Canal St.
Carlsbad NM 88220

See page two for job notes and contact information.

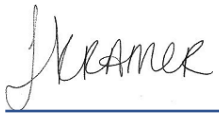
Eurofins Carlsbad

Job Notes

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

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

Authorization



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4/13/2023 4:38:03 PM

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

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Laboratory Job ID: 890-4472-1
SDG: 03D2024150

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 890-4472-1
Project/Site: Cabo Wabo Federal Com 801H SDG: 03D2024150

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high 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.
¤	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: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Job ID: 890-4472-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-4472-1

Receipt
The samples were received on 4/5/2023 3:41 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 4.6°C

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (890-4472-1), FS02 (890-4472-2), FS03 (890-4472-3), FS04 (890-4472-4), SW01 (890-4472-5) and SW02 (890-4472-6).

GC VOA
Method 8021B: LCS biased high. Since only an acceptable LCS or LCSD is required per the method, the data has been qualified and reported.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS02 (890-4472-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-51023 and analytical batch 880-51017 was outside control limits. Sample matrix interference and/or non-homogeneity is suspected.

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 880-50623 and analytical batch 880-50710 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW01 (890-4472-5). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW02 (890-4472-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-50705 and analytical batch 880-50976 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.FS01 (890-4472-1), FS02 (890-4472-2), FS03 (890-4472-3), FS04 (890-4472-4), SW01 (890-4472-5), SW02 (890-4472-6), (880-26915-A-4-A), (880-26915-A-4-B MS) and (880-26915-A-4-C MSD)

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: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS01

Lab Sample ID: 890-4472-1
Matrix: Solid
Date Collected: 04/05/23 09:55
Date Received: 04/05/23 15:41
Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 14:04	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		04/13/23 09:28	04/13/23 14:04	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/13/23 09:28	04/13/23 14:04	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		04/13/23 09:28	04/13/23 14:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*04/13/23 09:28*	*04/13/23 14:04*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*04/13/23 09:28*	*04/13/23 14:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 16:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			04/10/23 10:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		04/07/23 14:33	04/10/23 03:55	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		04/07/23 14:33	04/10/23 03:55	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		04/07/23 14:33	04/10/23 03:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*109*		*70 - 130*	*04/07/23 14:33*	*04/10/23 03:55*	*1*
o-Terphenyl	*121*		*70 - 130*	*04/07/23 14:33*	*04/10/23 03:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**235**		5.04		mg/Kg			04/12/23 02:42	1

Client Sample ID: FS02

Lab Sample ID: 890-4472-2
Matrix: Solid
Date Collected: 04/05/23 10:00
Date Received: 04/05/23 15:41
Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Toluene	<0.00201	U	0.00201		mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		04/13/23 09:28	04/13/23 14:25	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402		mg/Kg		04/13/23 09:28	04/13/23 14:25	1
o-Xylene	<0.00201	U *+	0.00201		mg/Kg		04/13/23 09:28	04/13/23 14:25	1
Xylenes, Total	<0.00402	U *+	0.00402		mg/Kg		04/13/23 09:28	04/13/23 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*139*	*S1+*	*70 - 130*	*04/13/23 09:28*	*04/13/23 14:25*	*1*

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Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS02

Lab Sample ID: 890-4472-2
Matrix: Solid
Date Collected: 04/05/23 10:00
Date Received: 04/05/23 15:41
Sample Depth: 1.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*	*04/13/23 09:28*	*04/13/23 14:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			04/13/23 16:50	1

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			04/10/23 10:06	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/07/23 14:33	04/10/23 04:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/07/23 14:33	04/10/23 04:16	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/07/23 14:33	04/10/23 04:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:16*	*1*
o-Terphenyl	*122*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**105**		5.00	mg/Kg			04/12/23 02:46	1

Client Sample ID: FS03

Lab Sample ID: 890-4472-3
Matrix: Solid
Date Collected: 04/05/23 12:20
Date Received: 04/05/23 15:41
Sample Depth: 3

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Toluene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		04/13/23 09:28	04/13/23 14:45	1
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		04/13/23 09:28	04/13/23 14:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*04/13/23 09:28*	*04/13/23 14:45*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*04/13/23 09:28*	*04/13/23 14:45*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			04/13/23 16:50	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			04/10/23 10:06	1

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS03

Lab Sample ID: 890-4472-3
Matrix: Solid
Date Collected: 04/05/23 12:20
Date Received: 04/05/23 15:41
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:38	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:38*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:38*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**179**		5.05		mg/Kg			04/12/23 02:51	1

Client Sample ID: FS04

Lab Sample ID: 890-4472-4
Matrix: Solid
Date Collected: 04/05/23 10:25
Date Received: 04/05/23 15:41
Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 15:06	1
m-Xylene & p-Xylene	<0.00399	U *+	0.00399		mg/Kg		04/13/23 09:28	04/13/23 15:06	1
o-Xylene	<0.00200	U *+	0.00200		mg/Kg		04/13/23 09:28	04/13/23 15:06	1
Xylenes, Total	<0.00399	U *+	0.00399		mg/Kg		04/13/23 09:28	04/13/23 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*70 - 130*	*04/13/23 09:28*	*04/13/23 15:06*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*04/13/23 09:28*	*04/13/23 15:06*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			04/13/23 16:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/10/23 10:06	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/10/23 04:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:59*	*1*
o-Terphenyl	*114*		*70 - 130*	*04/07/23 14:33*	*04/10/23 04:59*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS04

Lab Sample ID: 890-4472-4
Matrix: Solid
Date Collected: 04/05/23 10:25
Date Received: 04/05/23 15:41
Sample Depth: 1.5

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.5		5.02		mg/Kg			04/12/23 02:55	1

Client Sample ID: SW01

Lab Sample ID: 890-4472-5
Matrix: Solid
Date Collected: 04/05/23 12:25
Date Received: 04/05/23 15:41
Sample Depth: 0 - 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 15:26	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 15:26	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 15:26	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		04/13/23 09:28	04/13/23 15:26	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/13/23 09:28	04/13/23 15:26	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		04/13/23 09:28	04/13/23 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*04/13/23 09:28*	*04/13/23 15:26*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*04/13/23 09:28*	*04/13/23 15:26*	*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			04/13/23 16:50	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 11:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 11:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*67*	*S1-*	*70 - 130*	*04/07/23 14:36*	*04/10/23 11:29*	*1*
o-Terphenyl	*74*		*70 - 130*	*04/07/23 14:36*	*04/10/23 11:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	294		4.98		mg/Kg			04/12/23 03:00	1

Client Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: SW02

Date Collected: 04/05/23 12:30
Date Received: 04/05/23 15:41
Sample Depth: 0 - 3

Lab Sample ID: 890-4472-6

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		04/13/23 09:28	04/13/23 16:49	1
m-Xylene & p-Xylene	<0.00398	U *+	0.00398		mg/Kg		04/13/23 09:28	04/13/23 16:49	1
o-Xylene	<0.00199	U *+	0.00199		mg/Kg		04/13/23 09:28	04/13/23 16:49	1
Xylenes, Total	<0.00398	U *+	0.00398		mg/Kg		04/13/23 09:28	04/13/23 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*	*04/13/23 09:28*	*04/13/23 16:49*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*04/13/23 09:28*	*04/13/23 16:49*	*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			04/13/23 17:26	1

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			04/11/23 09:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 12:34	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 12:34	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		04/07/23 14:37	04/10/23 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*68*	*S1-*	*70 - 130*	*04/07/23 14:37*	*04/10/23 12:34*	*1*
o-Terphenyl	*73*		*70 - 130*	*04/07/23 14:37*	*04/10/23 12:34*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**275**		4.98		mg/Kg			04/12/23 03:04	1

Surrogate Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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)
880-27126-A-1-I MS	Matrix Spike	105	88
880-27126-A-1-J MSD	Matrix Spike Duplicate	129	100
890-4472-1	FS01	125	87
890-4472-2	FS02	139 S1+	106
890-4472-3	FS03	104	98
890-4472-4	FS04	126	92
890-4472-5	SW01	111	100
890-4472-6	SW02	83	77
LCS 880-51023/1-A	Lab Control Sample	130	120
LCSD 880-51023/2-A	Lab Control Sample Dup	114	115
MB 880-51023/5-A	Method Blank	73	95

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 Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-26816-A-96-B MS	Matrix Spike	100	99
880-26816-A-96-C MSD	Matrix Spike Duplicate	102	103
890-4472-1	FS01	109	121
890-4472-2	FS02	110	122
890-4472-3	FS03	103	114
890-4472-4	FS04	101	114
890-4472-5	SW01	67 S1-	74
890-4472-5 MS	SW01	76	76
890-4472-5 MSD	SW01	76	73
890-4472-6	SW02	68 S1-	73
LCS 880-50623/2-A	Lab Control Sample	109	125
LCS 880-50624/2-A	Lab Control Sample	95	95
LCSD 880-50623/3-A	Lab Control Sample Dup	107	122
LCSD 880-50624/3-A	Lab Control Sample Dup	95	96
MB 880-50623/1-A	Method Blank	124	145 S1+
MB 880-50624/1-A	Method Blank	83	94

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-51023/5-A
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 51023

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 12:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		04/13/23 09:28	04/13/23 12:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		04/13/23 09:28	04/13/23 12:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		04/13/23 09:28	04/13/23 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*70 - 130*	*04/13/23 09:28*	*04/13/23 12:00*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*04/13/23 09:28*	*04/13/23 12:00*	*1*

Lab Sample ID: LCS 880-51023/1-A
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 51023

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1216		mg/Kg		122	70 - 130		
Toluene			0.100	0.1141		mg/Kg		114	70 - 130		
Ethylbenzene			0.100	0.1272		mg/Kg		127	70 - 130		
m-Xylene & p-Xylene			0.200	0.2725	*+	mg/Kg		136	70 - 130		
o-Xylene			0.100	0.1367	*+	mg/Kg		137	70 - 130		

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

Lab Sample ID: LCSD 880-51023/2-A
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 51023

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1056		mg/Kg		106	70 - 130	14	35
Toluene			0.100	0.09832		mg/Kg		98	70 - 130	15	35
Ethylbenzene			0.100	0.09996		mg/Kg		100	70 - 130	24	35
m-Xylene & p-Xylene			0.200	0.2145		mg/Kg		107	70 - 130	24	35
o-Xylene			0.100	0.1083		mg/Kg		108	70 - 130	23	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*115*		*70 - 130*

Lab Sample ID: 880-27126-A-1-I MS
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00202	U F1 F2	0.0998	0.06454	F1	mg/Kg		65	70 - 130		
Toluene	<0.00202	U	0.0998	0.07844		mg/Kg		79	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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

Lab Sample ID: 880-27126-A-1-I MS
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 51023

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00202	U	0.0998	0.09073		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	<0.00403	U *+	0.200	0.1662		mg/Kg		83	70 - 130
o-Xylene	<0.00202	U *+	0.0998	0.08303		mg/Kg		83	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

Lab Sample ID: 880-27126-A-1-J MSD
Matrix: Solid
Analysis Batch: 51017

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 51023

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U F1 F2	0.0990	0.09652	F2	mg/Kg		97	70 - 130	40	35
Toluene	<0.00202	U	0.0990	0.09391		mg/Kg		95	70 - 130	18	35
Ethylbenzene	<0.00202	U	0.0990	0.1028		mg/Kg		104	70 - 130	13	35
m-Xylene & p-Xylene	<0.00403	U *+	0.198	0.2177		mg/Kg		110	70 - 130	27	35
o-Xylene	<0.00202	U *+	0.0990	0.1100		mg/Kg		111	70 - 130	28	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

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

Lab Sample ID: MB 880-50623/1-A
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50623

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		04/07/23 14:33	04/09/23 19:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/09/23 19:59	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:33	04/09/23 19:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*04/07/23 14:33*	*04/09/23 19:59*	*1*
o-Terphenyl	*145*	*S1+*	*70 - 130*	*04/07/23 14:33*	*04/09/23 19:59*	*1*

Lab Sample ID: LCS 880-50623/2-A
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50623

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10			1000	1066		mg/Kg		107	70 - 130
Diesel Range Organics (Over C10-C28)			1000	922.5		mg/Kg		92	70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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

Lab Sample ID: LCS 880-50623/2-A
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50623

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	125		70 - 130

Lab Sample ID: LCSD 880-50623/3-A
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50623

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1100		mg/Kg		110	70 - 130	3	20
Diesel Range Organics (Over C10-C28)			1000	935.8		mg/Kg		94	70 - 130	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	122		70 - 130

Lab Sample ID: 880-26816-A-96-B MS
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 50623

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1006		mg/Kg		101	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1111		mg/Kg		111	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: 880-26816-A-96-C MSD
Matrix: Solid
Analysis Batch: 50710

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 50623

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	<49.8	U	997	991.2		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	997	1161		mg/Kg		116	70 - 130	4	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	103		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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

Lab Sample ID: MB 880-50624/1-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 50624

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		04/07/23 14:36	04/10/23 08:59	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 08:59	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		04/07/23 14:36	04/10/23 08:59	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*04/07/23 14:36*	*04/10/23 08:59*	*1*
o-Terphenyl	*94*		*70 - 130*	*04/07/23 14:36*	*04/10/23 08:59*	*1*

Lab Sample ID: LCS 880-50624/2-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 50624

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	986.6		mg/Kg		99	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	847.9		mg/Kg		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Lab Sample ID: LCSD 880-50624/3-A
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 50624

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1003		mg/Kg		100	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	853.3		mg/Kg		85	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*96*		*70 - 130*

Lab Sample ID: 890-4472-5 MS
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 50624

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	1000	1128		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	<50.0	U	1000	952.2		mg/Kg		92	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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

Lab Sample ID: 890-4472-5 MS
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 50624

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*76*		*70 - 130*

Lab Sample ID: 890-4472-5 MSD
Matrix: Solid
Analysis Batch: 50779

Client Sample ID: SW01
Prep Type: Total/NA
Prep Batch: 50624

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	998	1127		mg/Kg		113	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<50.0	U	998	922.8		mg/Kg		89	70 - 130	3	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	*76*		*70 - 130*
o-Terphenyl	*73*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-50705/1-A
Matrix: Solid
Analysis Batch: 50976

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			04/12/23 00:47	1

Lab Sample ID: LCS 880-50705/2-A
Matrix: Solid
Analysis Batch: 50976

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	247.6		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-50705/3-A
Matrix: Solid
Analysis Batch: 50976

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	243.7		mg/Kg		97	90 - 110	2	20

Lab Sample ID: 880-26915-A-4-B MS
Matrix: Solid
Analysis Batch: 50976

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	45300	F1	12600	53280	F1	mg/Kg		64	90 - 110		

QC Sample Results

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-26915-A-4-C MSD
Matrix: Solid
Analysis Batch: 50976

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	45300	F1	12600	53130	F1	mg/Kg		62	90 - 110	0	20

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

GC VOA

Analysis Batch: 51017

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8021B	51023
890-4472-2	FS02	Total/NA	Solid	8021B	51023
890-4472-3	FS03	Total/NA	Solid	8021B	51023
890-4472-4	FS04	Total/NA	Solid	8021B	51023
890-4472-5	SW01	Total/NA	Solid	8021B	51023
890-4472-6	SW02	Total/NA	Solid	8021B	51023
MB 880-51023/5-A	Method Blank	Total/NA	Solid	8021B	51023
LCS 880-51023/1-A	Lab Control Sample	Total/NA	Solid	8021B	51023
LCSD 880-51023/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	51023
880-27126-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	51023
880-27126-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	51023

Prep Batch: 51023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	5035	
890-4472-2	FS02	Total/NA	Solid	5035	
890-4472-3	FS03	Total/NA	Solid	5035	
890-4472-4	FS04	Total/NA	Solid	5035	
890-4472-5	SW01	Total/NA	Solid	5035	
890-4472-6	SW02	Total/NA	Solid	5035	
MB 880-51023/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-51023/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-51023/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-27126-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
880-27126-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 51122

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	Total BTEX	
890-4472-2	FS02	Total/NA	Solid	Total BTEX	
890-4472-3	FS03	Total/NA	Solid	Total BTEX	
890-4472-4	FS04	Total/NA	Solid	Total BTEX	
890-4472-5	SW01	Total/NA	Solid	Total BTEX	
890-4472-6	SW02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 50623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015NM Prep	
890-4472-2	FS02	Total/NA	Solid	8015NM Prep	
890-4472-3	FS03	Total/NA	Solid	8015NM Prep	
890-4472-4	FS04	Total/NA	Solid	8015NM Prep	
MB 880-50623/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50623/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-26816-A-96-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-26816-A-96-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

GC Semi VOA

Prep Batch: 50624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-5	SW01	Total/NA	Solid	8015NM Prep	
890-4472-6	SW02	Total/NA	Solid	8015NM Prep	
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4472-5 MS	SW01	Total/NA	Solid	8015NM Prep	
890-4472-5 MSD	SW01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 50710

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015B NM	50623
890-4472-2	FS02	Total/NA	Solid	8015B NM	50623
890-4472-3	FS03	Total/NA	Solid	8015B NM	50623
890-4472-4	FS04	Total/NA	Solid	8015B NM	50623
MB 880-50623/1-A	Method Blank	Total/NA	Solid	8015B NM	50623
LCS 880-50623/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50623
LCSD 880-50623/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50623
880-26816-A-96-B MS	Matrix Spike	Total/NA	Solid	8015B NM	50623
880-26816-A-96-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	50623

Analysis Batch: 50779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-5	SW01	Total/NA	Solid	8015B NM	50624
890-4472-6	SW02	Total/NA	Solid	8015B NM	50624
MB 880-50624/1-A	Method Blank	Total/NA	Solid	8015B NM	50624
LCS 880-50624/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	50624
LCSD 880-50624/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	50624
890-4472-5 MS	SW01	Total/NA	Solid	8015B NM	50624
890-4472-5 MSD	SW01	Total/NA	Solid	8015B NM	50624

Analysis Batch: 50793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Total/NA	Solid	8015 NM	
890-4472-2	FS02	Total/NA	Solid	8015 NM	
890-4472-3	FS03	Total/NA	Solid	8015 NM	
890-4472-4	FS04	Total/NA	Solid	8015 NM	
890-4472-5	SW01	Total/NA	Solid	8015 NM	
890-4472-6	SW02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 50705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Soluble	Solid	DI Leach	
890-4472-2	FS02	Soluble	Solid	DI Leach	
890-4472-3	FS03	Soluble	Solid	DI Leach	
890-4472-4	FS04	Soluble	Solid	DI Leach	
890-4472-5	SW01	Soluble	Solid	DI Leach	
890-4472-6	SW02	Soluble	Solid	DI Leach	
MB 880-50705/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-50705/2-A	Lab Control Sample	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

HPLC/IC (Continued)

Leach Batch: 50705 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-50705/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-26915-A-4-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-26915-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50976

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4472-1	FS01	Soluble	Solid	300.0	50705
890-4472-2	FS02	Soluble	Solid	300.0	50705
890-4472-3	FS03	Soluble	Solid	300.0	50705
890-4472-4	FS04	Soluble	Solid	300.0	50705
890-4472-5	SW01	Soluble	Solid	300.0	50705
890-4472-6	SW02	Soluble	Solid	300.0	50705
MB 880-50705/1-A	Method Blank	Soluble	Solid	300.0	50705
LCS 880-50705/2-A	Lab Control Sample	Soluble	Solid	300.0	50705
LCSD 880-50705/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	50705
880-26915-A-4-B MS	Matrix Spike	Soluble	Solid	300.0	50705
880-26915-A-4-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	50705

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS01

Lab Sample ID: 890-4472-1

Date Collected: 04/05/23 09:55
Matrix: Solid
Date Received: 04/05/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 14:04	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 03:55	SM	EET MID
Soluble	Leach	DI Leach			4.96 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:42	SMC	EET MID

Client Sample ID: FS02

Lab Sample ID: 890-4472-2

Date Collected: 04/05/23 10:00
Matrix: Solid
Date Received: 04/05/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 14:25	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:16	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:46	SMC	EET MID

Client Sample ID: FS03

Lab Sample ID: 890-4472-3

Date Collected: 04/05/23 12:20
Matrix: Solid
Date Received: 04/05/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 14:45	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:38	SM	EET MID
Soluble	Leach	DI Leach			4.95 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:51	SMC	EET MID

Client Sample ID: FS04

Lab Sample ID: 890-4472-4

Date Collected: 04/05/23 10:25
Matrix: Solid
Date Received: 04/05/23 15:41

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 15:06	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID

Eurofins Carlsbad

Lab Chronicle

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Client Sample ID: FS04
Date Collected: 04/05/23 10:25
Date Received: 04/05/23 15:41

Lab Sample ID: 890-4472-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			50793	04/10/23 10:06	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50623	04/07/23 14:33	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50710	04/10/23 04:59	SM	EET MID
Soluble	Leach	DI Leach			4.98 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 02:55	SMC	EET MID

Client Sample ID: SW01
Date Collected: 04/05/23 12:25
Date Received: 04/05/23 15:41

Lab Sample ID: 890-4472-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 15:26	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 16:50	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	50624	04/07/23 14:36	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 03:00	SMC	EET MID

Client Sample ID: SW02
Date Collected: 04/05/23 12:30
Date Received: 04/05/23 15:41

Lab Sample ID: 890-4472-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	51023	04/13/23 09:28	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	51017	04/13/23 16:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			51122	04/13/23 17:26	SM	EET MID
Total/NA	Analysis	8015 NM		1			50793	04/11/23 09:34	SM	EET MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	50624	04/07/23 14:37	SM	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	50779	04/10/23 12:34	SM	EET MID
Soluble	Leach	DI Leach			5.02 g	50 mL	50705	04/08/23 15:23	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50976	04/12/23 03:04	SMC	EET MID

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Laboratory: Eurofins Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-22-25	06-30-23

The following analytes 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: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

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: Cabo Wabo Federal Com 801H

Job ID: 890-4472-1
SDG: 03D2024150

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4472-1	FS01	Solid	04/05/23 09:55	04/05/23 15:41	1.5
890-4472-2	FS02	Solid	04/05/23 10:00	04/05/23 15:41	1.5
890-4472-3	FS03	Solid	04/05/23 12:20	04/05/23 15:41	3
890-4472-4	FS04	Solid	04/05/23 10:25	04/05/23 15:41	1.5
890-4472-5	SW01	Solid	04/05/23 12:25	04/05/23 15:41	0 - 3
890-4472-6	SW02	Solid	04/05/23 12:30	04/05/23 15:41	0 - 3

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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: _____

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Project Manager:	Hadlie Green	Bill to: (if different)	Kalie Jennings
Company Name:	Ensolum, LLC	Company Name:	Ensolum, LLC
Address:	601 N Marienfeld St Suite 400	Address:	601 N Marienfeld St Suite 400
City, State ZIP:	Midland, TX 79701	City, State ZIP:	Midland, TX 79701
Phone:	432-557-8895	Email:	hgreen@ensolum.com, kjennings@ensolum.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Cabo Wabo Federal Com 801H	Turn Around	
Project Number:	03D2024150	☑ Routine ☐ Rush	
Project Location:	32.1225,-103.9338	Due Date:	
Sampler's Name:	Peter Van Patten	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	Yes (No)	
Samples Received Intact:	(Yes) No	Thermometer ID:	IR#007	
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2	
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	4.8	
Total Containers:		Corrected Temperature:	4.6	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (EPA: 300.0)	TPH (8015)	BTEX (8021)
FS01	Soil	4/5/2023	955	1.5'	Comp	1		x	x	x
FS02	Soil	4/5/2023	1000	1.5'	Comp	1		x	x	x
FS03	Soil	4/5/2023	1220	3'	Comp	1		x	x	x
FS04	Soil	4/5/2023	1025	1.5'	Comp	1		x	x	x
SW01	Soil	4/5/2023	1225	0'-3'	Comp	1		x	x	x
SW02	Soil	4/5/2023	1230	0'-3'	Comp	1		x	x	x

ANALYSIS REQUEST

890-4472 Chain of Custody

Preservative Codes

None: NO DI Water: H_2O
Cool: Cool MeOH: Me
HCL: HC HNO_3: HN
H_2S0_4: H_2 NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Comments

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 Peter Van Patten	Clue Rodriguez	4.5.23 1542			
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4472-1
SDG Number: 03D2024150

Login Number: 4472
List Number: 1
Creator: Clifton, Cloe

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.	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: 890-4472-1
SDG Number: 03D2024150

Login Number: 4472
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 04/07/23 10:32 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	

ENSOLUM

APPENDIX D

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	NAPP2303047441
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Justin Carlile	Contact Telephone	(432) 202-4112
Contact email	Justin.Carlile@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2303047441
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.1225 Longitude -103.9338

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Cabo Wabo Federal Com 801H	Site Type	Flowline
Date Release Discovered	January 16, 2023	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
B	24	25S	29E	Eddy

Surface Owner: ☐ State ■ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
■ Produced Water	Volume Released (bbls) 4.236	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	■ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a internal web lining failure on a lay flat.
The release was off the pad.
Evaluation will be made of the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2303047441
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ■ 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

- ■ The source of the release has been stopped.
- ■ The impacted area has been secured to protect human health and the environment.
- ■ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ■ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 1/30/2023

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Jocelyn Harimon Date: 01/30/2023

L48 Spill Volume Estimate Form

NAPP2303047441

Facility Name & Number:	Cabo Wabo 801H Location
Asset Area:	Deleware East
Release Discovery Date & Time:	1/16/2023 3am CST
Release Type:	Oil
Provide any known details about the event:	Pin Hole leak developed under road crossing

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 *Pool* 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	19.0	30.0	2.00	4	570.000	0.042	4.228	0.002	4.236
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:	4.236

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

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 180732
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	2/1/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2303047441
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?	>100 (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 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	NAPP2303047441
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: _Justin Carlile_____ Title: _Senior Environmental Engineer_____

Signature:_____Justin Carlile_____ Date: ____4/14/2023_____

email: _Justin.Carlile@Conocophillips.com_____ Telephone: ____432-202-4112_____

OCD Only

Received by: _____Jocelyn Harimon_____ Date: __04/20/2023____

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2303047441
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: _Justin Carlile_____ Title: _Senior Environmental Engineer_____

Signature: Justin Carlile Date: __4/142023_____

email: __Justin.Carlile@Conocophillips.com_____ Telephone: ___432-202-4112_____

OCD Only

Received by: ____Jocelyn Harimon_____ Date: ___04/20/2023___

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: _____ Date: _____

Printed Name: _____ Title: _____

ENSOLUM

APPENDIX E

NMOCD Notifications

From: Enviro, OCD, EMNRD
To: Hadlie Green
Cc: Bratcher, Michael, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 3/13/2023)
Date: Wednesday, March 8, 2023 5:12:27 PM

[**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 8, 2023 1:52 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 3/13/2023)

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 13, 2023.

- Red Bull 35 Federal 001/ NAPP2126444907
- Cabo Wabo Federal Com 801H / NAPP2303047441 & NAPP304550164
- Baseball Cap #25H / NAPP2303037207

Thank you,

From: Enviro, OCD, EMNRD
To: Hadlie Green
Cc: Bratcher, Michael, EMNRD; Hamlet, Robert, EMNRD
Subject: RE: [EXTERNAL] COP - Sampling Notification (Week of 4/3/2023)
Date: Friday, March 31, 2023 10:07:24 AM
Attachments: image005.jpg
image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

Hadlie,

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

JH

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

From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, March 30, 2023 8:57 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Kalei Jennings <kjennings@ensolum.com>
Subject: [EXTERNAL] COP - Sampling Notification (Week of 4/3/2023)

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 April 3, 2023.

- Tusk Federal 004H / NAPP2303742113
  - Sampling Date: 4/3/2023 @ 10:00 AM MST
- Cabo Wabo Federal Com 801H / NAPP2303047441 and NAPP2304550164

- Sampling Date: 4/5-6/2023 @ 8:00 AM MST

Thank you,

Hadlie Green
Project Manager
432-557-8895
hgreen@ensolum.com
Ensolum, LLC

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 209393

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	229137
	Action Number: 209393
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NAPP2303047441 CABO WABO FEDERAL COM 801H, thank you. This closure is approved.	9/8/2023