



August 1, 2025

New Mexico Oil Conservation Division

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

Re: Closure Request
NW State #020
Incident Number NAPP2428539636
API: 30-015-30892
Eddy County, New Mexico

To Whom it May Concern:

Ensolum, LLC (Ensolum) on behalf of Flex Oilfield (Flex) and Riley Permian Operating Company, LLC (Riley Permian), has prepared this *Closure Request* to document excavation and soil sampling activities performed at the NW State #020 (Site). The purpose of the excavation and soil sampling activities was to address impacted soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and analytical results from the soil sampling events, Riley is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2428539636.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 29, Township 17 South, Range 28 East, in Eddy County, New Mexico (32.798912°, -104.193182°) and is associated with oil and gas exploration and production operations on State Trust Land managed by the New Mexico State Land Office (NMSLO) associated with the lease ID X006470417.

On October 6, 2024, a roustabout crew plugged the NW State #014 well and removed associated flowlines. The NW State #014 flowlines were connected to the NW State #020 flowline resulting in the release of 20 barrels (bbls) of crude oil and 5 bbls of produced water onto adjacent pasture. A vacuum truck was immediately dispatched to the Site to recover the free-standing fluids; approximately 17 bbls of crude oil and 3 bbls of produced water were recovered. Riley reported the release to the New Mexico Oil Conservation Division (NMOCD) via Notification of Release (NOR) on October 11, 2024, and Initial C-141 Application (C-141) on October 12, 2024. The release was assigned Incident Number NAPP2428539636.

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 below. 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 data is USGS well 324642104111001, located approximately 1.5 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 107.65 feet bgs, most recently measured on March 9, 1994, and a total depth of 145 feet bgs. The well record is presented in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a seasonal wetland, located approximately 3,239 feet southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (medium potential karst designation area).

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

NMSLO CULTURAL RESOURCES AND BIOLOGICAL REVIEW

Cultural Properties Protection

Since the release occurred on previously disturbed land immediately adjacent to the pad and in a pipeline service Right of Way (ROW), in an area governed by NMSLO, the Site is exempt from the Cultural Properties Protection Rule (CPP). As such, no additional cultural resource surveys were completed in connection with these releases.

Biological Review

Ensolum personnel conducted a desktop review to establish if the Site is within an area of possible threatened, endangered, and sensitive wildlife and plant species, environmentally sensitive areas, surface waters, and sensitive soils.

- A review of the U.S. Fish and Wildlife Services Information for Planning and Consultation (IPaC) and the Bureau of Land Management (BLM) New Mexico Plant Wildlife Habitat resources indicated there are no critical wildlife habitats at the Site. A review of the maps indicated potential habitats of the Mexican Spotted Owl, Piping Plover, Texas Hornshell Clam, Lee Pincushion Cactus, and the Sneed Pincushion Cactus. Threatened and endangered species are potentially present in the area surrounding the Site; however, no native vegetation outside of the well pad extent will be disturbed during remediation activities.
- Review of the NMSLO Candidate Conservation Agreement with Assurances (CCAA) map indicated the Site was within a current Lesser Prairie Chicken management area.
 - From October 6, 2024, through May 25, 2025, no remediation activities will occur between the hours of 3:00 am to 9:00 am to protect any Lesser Prairie Chickens within the area.

- The Site is within 3,239 feet from a seasonal wetland. The strictest Table I Closure Criteria is being applied to the Site due to unconfirmed depth to groundwater as described above.
- The Natural Resources Conservation Service (NRCS) Web Soil Survey classifies the soil type at the Site as Kimbrough-Stegall loams. The Kimbrough-Stegall loams is not considered a sensitive soil per the NMSLO guidelines.

EXCAVATION, SOIL SAMPLING, AND BACKFILL ACTIVITIES

Between November 2024 and May 25, 2025, Flex personnel were at the Site to oversee excavation and backfill activities based on the information provided on the C-141 and visual observations. Impacted soil was excavated from the release area as indicated by field screening results. Excavation activities were performed utilizing heavy equipment and transport vehicles. The excavation occurred on previously disturbed soil, immediately adjacent to the well pad on a pipeline service ROW. The excavation was completed to depths ranging from 4 feet to 8 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Between November 19 and May 2, 2025, Ensolum personnel were at the Site to collect the composite soil samples. Following the removal of impacted soil, 5-point composite soil samples were collected representing areas no more than 200 square feet from the sidewalls and floor of the excavation. The 5-point composite soil samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples FS01 through FS15.6 were collected from the floor of the excavation from depths ranging from 4 to 8 feet bgs. Confirmation sidewall soil samples SW01 through SW10 were collected from the sidewalls of the excavation at depths ranging from ground surface to 8 feet bgs.

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 Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, and Eurofins laboratories (Eurofins) in Carlsbad, New Mexico for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following SM4500 or EPA 300.0. The excavation extent and confirmation soil sample locations are presented on Figure 2. Complete laboratory analysis is presented in Appendix C.

The final excavation extent measured approximately 2,956 square feet. A total of approximately 750 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Landfill Facility in Hobbs, New Mexico. The excavation was backfilled with locally procured material and recontoured to match pre-existing Site conditions.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for the final confirmation floor soil samples FS01 through FS15.6 and sidewall soil samples SW01 through SW10 indicated that all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for FS01, FS04, and FS15 indicated TPH and/or chloride concentrations exceeded Site Closure Criteria and were subsequently excavated further. Laboratory analytical results for all final confirmation soil samples indicated all COCs were in compliance with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

Riley Permian Operating Company, LLC
Closure Request
NW State #020



CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the October 6, 2024, crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Flex will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved SLO seed mixture.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Riley believes these remedial actions are protective of human health, the environment, and groundwater. As such, Riley respectfully requests closure for Incident Number NAPP2428539636.

If you have any questions or comments, please contact Ms. Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC

A handwritten signature in black ink, appearing to read "Jeremy Reich".

Jeremy Reich
Project Geologist

A handwritten signature in black ink, appearing to read "Tacoma Morrissey".

Tacoma Morrissey
Associate Principal

cc: Taylor Vincent, Riley Permian
Aaron Garcia, Flex
NMSLO

Appendices :

Figure 1	Site Receptor Map
Figure 2	Confirmation 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



FIGURES

Site Receptor Map

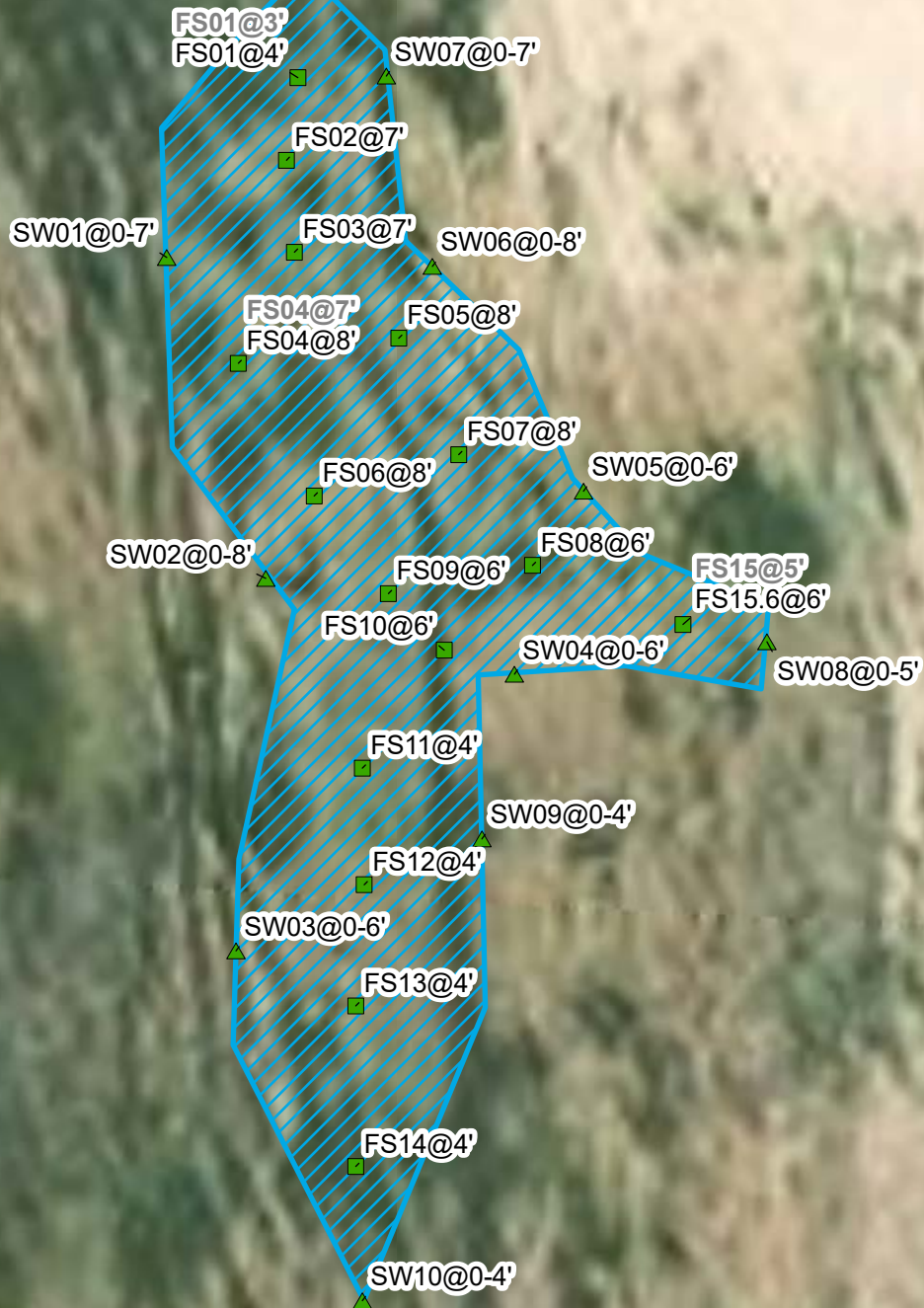
NW State #020
Riley Permian Operating Company, LLC
Unit P, Sec 29, T17S, R28E
Eddy County, New Mexico

FIGURE

1

Legend

- Confirmation Floor Soil Sample in Compliance with Closure Criteria
- ▲ Confirmation Sidewall Soil Sample in Compliance with Closure Criteria
- ▨ Excavation Extent



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.
 Grey text indicate soil sample was removed during excavation activities.

0 4.5 9 18 27 36
 Feet

Sources: Environmental Systems Research Institute (ESRI)



Soil Sample Locations

NW State #020
 Riley Permian Operating Company, LLC
 Unit P, Sec 29, T17S, R28E
 Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NW State #020
 Riley Permian Operating
 Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Soil Samples										
FS01	11/19/2024	3	<0.050	<0.300	<10.0	129	35.2	129	164	48.0
FS01	11/21/2024	4	<0.00140	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	7.28
FS02	11/21/2024	7	<0.00140	<0.00230	<14.5	<15.1	<15.1	<15.1	<15.1	8.39
FS03	11/21/2024	7	<0.00139	<0.00229	<14.4	<15.0	<15.0	<15.0	<15.0	175
FS04	11/19/2024	7	<0.050	<0.300	<10.0	110	28.5	110	139	544
FS04	11/21/2024	8	<0.00139	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	40.0
FS05	11/21/2024	8	<0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	22.7
FS06	11/21/2024	8	<0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	31.9
FS07	11/21/2024	8	<0.00139	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	23.9
FS08	11/21/2024	6	<0.00139	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	31.9
FS09	11/21/2024	6	<0.00138	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	32.4
FS10	11/21/2024	6	<0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	9.01
FS11	11/21/2024	4	<0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	23.8
FS12	11/21/2024	4	<0.00140	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	55.7
FS13	11/21/2024	4	<0.00139	<0.00228	<14.4	<15.0	<15.0	<15.0	<15.0	14.9
FS14	11/21/2024	4	<0.00138	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	142
FS15	02/06/2025	5	<0.050	<0.300	<10.0	56.1	<10.0	56.1	56.1	1230
FS15.6	05/02/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	>10.0	<10.0	240
SW01	11/21/2024	0-7	<0.00138	<0.00227	<14.5	<15.1	<15.1	<15.1	<15.1	33.4
SW02	11/21/2024	0-8	<0.00139	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	31.8
SW03	11/21/2024	0-6	<0.00139	<0.00229	<14.5	<15.1	<15.1	<15.1	<15.1	11.9
SW04	11/19/2024	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW05	11/21/2024	0-6	<0.00139	<0.00228	<14.5	<15.1	<15.1	<15.1	<15.1	359
SW06	11/21/2024	0-8	0.00154	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	9.52



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
NW State #020
Riley Permian Operating
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
SW07	11/21/2024	0-7	<0.00138	<0.00226	<14.5	<15.1	<15.1	<15.1	<15.1	33.5
SW08	02/06/2025	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW09	02/06/2025	0-4	<0.050	<0.300	<10.0	14.1	<10.0	14.1	14.1	304
SW10	02/06/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A

Referenced Well Records



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:
Groundwater

Geographic Area:
United States

GO

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.

Groundwater levels for the Nation

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs
site_no list =

- 324642104111001

Minimum number of levels = 1
[Save file of selected sites](#) to local disk for future upload

USGS 324642104111001 18S.28E.04.131444

Eddy County, New Mexico
Latitude 32°46'42", Longitude 104°11'10" NAD27
Land-surface elevation 3,640 feet above NGVD29
The depth of the well is 145.00 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 of measurement
1985-06-04			D	62610	3530.61	NGVD29			S	
1985-06-04			D	62611	3532.18	NAVD88			S	
1985-06-04			D	72019	109.39				S	
1990-09-19			D	62610	3533.40	NGVD29			S	
1990-09-19			D	62611	3534.97	NAVD88			S	
1990-09-19			D	72019	106.60				S	
1994-03-09			D	62610	3532.35	NGVD29			S	
1994-03-09			D	62611	3533.92	NAVD88			S	
1994-03-09			D	72019	107.65				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

Section	Code	Description
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
Title: Groundwater for USA: Water Levels
URL: [https://nwis.waterdata.usgs.gov/nwis/gwlevels?](https://nwis.waterdata.usgs.gov/nwis/gwlevels?site_no=324642104111001&agency_cd=USGS&format=html)



Page Contact Information: [USGS Water Data Support Team](#)
Page Last Modified: 2024-11-19 16:47:19 EST
0.32 0.23 nadww01



APPENDIX B

Photographic Log

**Photographic Log**

Contango Resources, LLC

NW State #020

Eddy County, New Mexico



Photograph: 1 Date: 11/21/2024
 Description: Excavation activities
 View: South



Photograph: 2 Date: 2/25/2025
 Description: Excavation activities
 View: West



Photograph: 3 Date: 5/25/2025
 Description: Additional excavation near FS16
 View: South



Photograph: 4 Date: 5/25/2025
 Description: Additional excavation near FS16
 View: East

**Photographic Log**

Contango Resources, LLC

NW State #020

Eddy County, New Mexico



Photograph: 5 Date: 5/25/2025
Description: Backfill activities
View: North



Photograph: 6 Date: 5/25/2025
Description: Excavation activities
View: Northeast



Photograph: 7 Date: 5/25/2025
Description: Backfill Activities
View: North



Photograph: 8 Date: 5/25/2025
Description: Backfill activities
View: South



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 06, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NW STATE #020

Enclosed are the results of analyses for samples received by the laboratory on 05/02/25 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/02/2025
Reported: 05/06/2025
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: 32.798912-104.193182

Sampling Date: 05/02/2025
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Tamara Oldaker

Sample ID: FS 15.6 6' (H252642-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2025	ND	1.76	88.0	2.00	3.01		
Toluene*	<0.050	0.050	05/05/2025	ND	1.90	94.8	2.00	0.992		
Ethylbenzene*	<0.050	0.050	05/05/2025	ND	1.92	96.2	2.00	0.378		
Total Xylenes*	<0.150	0.150	05/05/2025	ND	6.11	102	6.00	0.271		
Total BTEx	<0.300	0.300	05/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/05/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/02/2025	ND	209	104	200	2.83	
DRO >C10-C28*	<10.0	10.0	05/02/2025	ND	198	99.2	200	2.82	
EXT DRO >C28-C36	<10.0	10.0	05/02/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

A handwritten signature in cursive script, appearing to read "C. D. Keene", written in black ink.

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 13, 2025

JEREMY REICH

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NW STATE #020

Enclosed are the results of analyses for samples received by the laboratory on 02/07/25 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/07/2025
Reported: 02/13/2025
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: 32.798912-104.193182

Sampling Date: 02/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 15 5' (H250779-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/10/2025	ND	2.10	105	2.00	5.48	
Toluene*	<0.050	0.050	02/10/2025	ND	2.24	112	2.00	10.6	
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.31	115	2.00	11.9	
Total Xylenes*	<0.150	0.150	02/10/2025	ND	7.09	118	6.00	12.7	
Total BTX	<0.300	0.300	02/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	02/11/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	191	95.6	200	0.219	
DRO >C10-C28*	56.1	10.0	02/11/2025	ND	187	93.7	200	0.329	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 68.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/07/2025
Reported: 02/13/2025
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: 32.798912-104.193182

Sampling Date: 02/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 08 0-5' (H250779-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.10	105	2.00	5.48		
Toluene*	<0.050	0.050	02/10/2025	ND	2.24	112	2.00	10.6		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.31	115	2.00	11.9		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	7.09	118	6.00	12.7		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	02/11/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	191	95.6	200	0.219	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	187	93.7	200	0.329	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 63.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 62.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/07/2025
Reported: 02/13/2025
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: 32.798912-104.193182

Sampling Date: 02/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 09 0-4' (H250779-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.10	105	2.00	5.48		
Toluene*	<0.050	0.050	02/10/2025	ND	2.24	112	2.00	10.6		
Ethylbenzene*	0.111	0.050	02/10/2025	ND	2.31	115	2.00	11.9		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	7.09	118	6.00	12.7		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	02/11/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	191	95.6	200	0.219	
DRO >C10-C28*	14.1	10.0	02/11/2025	ND	187	93.7	200	0.329	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
JEREMY REICH
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 02/07/2025
Reported: 02/13/2025
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: 32.798912-104.193182

Sampling Date: 02/06/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: SW 10 0-4' (H250779-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/10/2025	ND	2.10	105	2.00	5.48		
Toluene*	<0.050	0.050	02/10/2025	ND	2.24	112	2.00	10.6		
Ethylbenzene*	<0.050	0.050	02/10/2025	ND	2.31	115	2.00	11.9		
Total Xylenes*	<0.150	0.150	02/10/2025	ND	7.09	118	6.00	12.7		
Total BTEx	<0.300	0.300	02/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	02/11/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/11/2025	ND	191	95.6	200	0.219	
DRO >C10-C28*	<10.0	10.0	02/11/2025	ND	187	93.7	200	0.329	
EXT DRO >C28-C36	<10.0	10.0	02/11/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO				P.O.#:				ANALYSIS REQUEST											
Company Name: Ensolum, LLC				Project Manager: Jeremy Reich															
Address: 3122 National Parks Hwy				State: NM Zip: 88220				Company: Ensolum, LLC											
City: Carlsbad				Attn: Jeremy Reich				Address:											
Phone #: (432) 296-0627				Fax #:				City:											
Project #: 09C2344001				Project Owner:				State: NM Zip:											
Project Location: 32.798912, -104.193182				Phone #:				Fax #:											
Sampler Name: Mario Sarkis																			
FOR LAB USE ONLY		LAB I.D.		Sample I.D.		Depth (feet)		(G/RAB OR (C)/OMP. # CONTAINERS		GROUNDWATER / WASTEWATER		MATRIX		PRESERV.		SAMPLING			
		HSO1A		FSIS		5		C 1		✓				DATE		TIME			
				SW08		0-5		C 1		✓				1407		V ✓			
				SW09		0-4		C 1		✓				1404		V ✓			
				SW10		0-4		C 1		✓				1410		V ✓			
														1440		V ✓			
<p>PLEASE NOTE: Liability and Damages. Carrier's liability and client's exclusive remedy for any claim arising from whether based in contract or tort shall be limited to the amount paid by the client for the service. All claims involving those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Certified within 30 days after completion of the applicable services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of time, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Signatures of shipping such as bill of lading appear upon any of the above stated releases or otherwise.</p>																			
Relinquished By: [Signature]				Date: 07-07-25 Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: _____				All Results are emailed. Please provide Email address: jreich@ensolum.com / msarkis@ensolum.com / kthompson@ensolum.com				REMARKS: Incident #: NAPP2428539636			
Delivered By: (Circle One) RUSH				Observed Temp.: 15.0°C Uncooled Temp.: 15.0°C Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Bacteria (only) <input type="checkbox"/> Corrected Temp.: 5.3°C				CHECKED BY: AD				Turnaround Time: Standard RUSH <input checked="" type="checkbox"/>				Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Observed Temp.: 5.3°C <input type="checkbox"/> Corrected Temp.: 5.3°C			



Environment Testing

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ANALYTICAL REPORT

PREPARED FOR

Attn: Brian Salzberger
Ensolum
601 N. Marienfeld St.
Suite 400
Midland, Texas 79701

Generated 12/3/2024 11:14:15 AM

JOB DESCRIPTION

NM State #020
Eddy County NM

JOB NUMBER

880-51408-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701



Eurofins Midland

Job Notes

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

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

Authorization



Generated
12/3/2024 11:14:15 AM

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

Client: Ensolum
Project/Site: NM State #020

Laboratory Job ID: 880-51408-1
SDG: Eddy County NM

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Definitions/Glossary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
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
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project: NM State #020

Job ID: 880-51408-1

Job ID: 880-51408-1

Eurofins Midland

Job Narrative 880-51408-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/22/2024 9:45 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C.

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01 (880-51408-1), FS02 (880-51408-2), FS03 (880-51408-3), FS04 (880-51408-4), FS05 (880-51408-5), FS06 (880-51408-6), FS07 (880-51408-7), FS08 (880-51408-8), FS09 (880-51408-9), FS10 (880-51408-10), FS11 (880-51408-11), FS12 (880-51408-12), FS13 (880-51408-13), FS14 (880-51408-14), SW01 (880-51408-15), SW02 (880-51408-16), SW03 (880-51408-17), SW05 (880-51408-18), SW06 (880-51408-19) and SW07 (880-51408-20).

GC VOA

Method 8021B: The laboratory control sample duplicate (LCSD) associated with preparation batch 880-96355 and analytical batch 880-96346 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

Diesel Range Organics

Method 8015MOD_NM: The matrix spike duplicate (MSD) recoveries for preparation batch 880-96754 and analytical batch 880-96876 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FS02 (880-51408-2), FS05 (880-51408-5), FS09 (880-51408-9), FS10 (880-51408-10), FS11 (880-51408-11), FS12 (880-51408-12), FS13 (880-51408-13), FS14 (880-51408-14), SW07 (880-51408-20) and (880-51408-A-1-H MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SW06 (880-51408-19). Evidence of matrix interferences is not obvious.

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 - Soluble: The Chloride matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-96376 and analytical batch 880-96380 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

The associated samples are: FS01 (880-51408-1), FS02 (880-51408-2), FS03 (880-51408-3), FS04 (880-51408-4) and FS05 (880-51408-5).

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

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS01

Lab Sample ID: 880-51408-1

Date Collected: 11/21/24 10:42

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 11:58	1
Toluene	<0.00201	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 11:58	1
Ethylbenzene	<0.00110	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 11:58	1
m-Xylene & p-Xylene	<0.00230	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 11:58	1
o-Xylene	<0.00159	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 11:58	1
Xylenes, Total	<0.00230	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 11:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/22/24 10:47	11/22/24 11:58	1
1,4-Difluorobenzene (Surr)	101		70 - 130	11/22/24 10:47	11/22/24 11:58	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00200	0.00109	mg/Kg			11/22/24 11:58	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 00:13	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 00:13	1
Diesel Range Organics (Over C10-C28)	<15.1	U F1	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 00:13	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 00:13	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130	11/27/24 11:06	12/03/24 00:13	1
o-Terphenyl	78		70 - 130	11/27/24 11:06	12/03/24 00:13	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7.28	J	10.0	0.395	mg/Kg			11/23/24 04:16	1

Client Sample ID: FS02

Lab Sample ID: 880-51408-2

Date Collected: 11/21/24 10:44

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 7

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 12:18	1
Toluene	<0.00202	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 12:18	1
Ethylbenzene	<0.00110	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 12:18	1
m-Xylene & p-Xylene	<0.00230	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 12:18	1
o-Xylene	<0.00160	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:18	1
Xylenes, Total	<0.00230	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:18	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS02

Lab Sample ID: 880-51408-2

Date Collected: 11/21/24 10:44

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 7

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	11/22/24 10:47	11/22/24 12:18	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/22/24 10:47	11/22/24 12:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00230	U	0.00200	0.00109	mg/Kg			11/22/24 12:18	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 01:00	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:00	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:00	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:00	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	11/27/24 11:06	12/03/24 01:00	1
o-Terphenyl	69	S1-	70 - 130	11/27/24 11:06	12/03/24 01:00	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.39	J	10.0	0.395	mg/Kg			11/23/24 04:24	1

Client Sample ID: FS03

Lab Sample ID: 880-51408-3

Date Collected: 11/21/24 10:46

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 7

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 12:39	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 12:39	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 12:39	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 12:39	1
o-Xylene	<0.00159	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:39	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/22/24 10:47	11/22/24 12:39	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/22/24 10:47	11/22/24 12:39	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 12:39	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS03

Lab Sample ID: 880-51408-3

Date Collected: 11/21/24 10:46

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 7

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.1	mg/Kg			12/03/24 01:17	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:17	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:17	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:17	1
Total TPH	<15.0	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	11/27/24 11:06	12/03/24 01:17	1
o-Terphenyl	72		70 - 130	11/27/24 11:06	12/03/24 01:17	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	175		10.0	0.395	mg/Kg			11/23/24 04:32	1

Client Sample ID: FS04

Lab Sample ID: 880-51408-4

Date Collected: 11/21/24 10:48

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 12:59	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 12:59	1
Ethylbenzene	0.00172	J	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 12:59	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 12:59	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:59	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 12:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/22/24 10:47	11/22/24 12:59	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/22/24 10:47	11/22/24 12:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 12:59	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.1	mg/Kg			12/03/24 01:32	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:32	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:32	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:32	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS04

Lab Sample ID: 880-51408-4

Date Collected: 11/21/24 10:48

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130				11/27/24 11:06	12/03/24 01:32	1
o-Terphenyl	76		70 - 130				11/27/24 11:06	12/03/24 01:32	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0		10.0	0.395	mg/Kg			11/23/24 04:40	1

Client Sample ID: FS05

Lab Sample ID: 880-51408-5

Date Collected: 11/21/24 12:08

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/22/24 10:47	11/22/24 13:20	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/22/24 10:47	11/22/24 13:20	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 13:20	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 01:48	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:48	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:48	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 01:48	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 01:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130				11/27/24 11:06	12/03/24 01:48	1
o-Terphenyl	69	S1-	70 - 130				11/27/24 11:06	12/03/24 01:48	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS05

Lab Sample ID: 880-51408-5

Date Collected: 11/21/24 12:08

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		10.0	0.395	mg/Kg			11/23/24 04:49	1

Client Sample ID: FS06

Lab Sample ID: 880-51408-6

Date Collected: 11/21/24 13:00

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130				11/22/24 10:47	11/22/24 13:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/22/24 10:47	11/22/24 13:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 13:40	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 02:04	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:04	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:04	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:04	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/27/24 11:06	12/03/24 02:04	1
o-Terphenyl	72		70 - 130				11/27/24 11:06	12/03/24 02:04	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.9		10.0	0.395	mg/Kg			11/23/24 04:57	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS07

Lab Sample ID: 880-51408-7

Date Collected: 11/21/24 13:30

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 8

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 14:01	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 14:01	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 14:01	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 14:01	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:01	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	11/22/24 10:47	11/22/24 14:01	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/22/24 10:47	11/22/24 14:01	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 14:01	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 02:20	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:20	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:20	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:20	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	11/27/24 11:06	12/03/24 02:20	1
o-Terphenyl	73		70 - 130	11/27/24 11:06	12/03/24 02:20	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.9		10.0	0.395	mg/Kg			11/23/24 05:21	1

Client Sample ID: FS08

Lab Sample ID: 880-51408-8

Date Collected: 11/21/24 13:40

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 14:21	1
Toluene	<0.00199	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 14:21	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 14:21	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 14:21	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:21	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS08

Lab Sample ID: 880-51408-8

Date Collected: 11/21/24 13:40

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	11/22/24 10:47	11/22/24 14:21	1
1,4-Difluorobenzene (Surr)	99		70 - 130	11/22/24 10:47	11/22/24 14:21	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 14:21	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 02:35	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:35	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:35	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:35	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	11/27/24 11:06	12/03/24 02:35	1
o-Terphenyl	87		70 - 130	11/27/24 11:06	12/03/24 02:35	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.9		10.0	0.395	mg/Kg			11/23/24 05:29	1

Client Sample ID: FS09

Lab Sample ID: 880-51408-9

Date Collected: 11/21/24 14:20

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 14:42	1
Toluene	<0.00199	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 14:42	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 14:42	1
m-Xylene & p-Xylene	<0.00227	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 14:42	1
o-Xylene	<0.00157	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:42	1
Xylenes, Total	<0.00227	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 14:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	11/22/24 10:47	11/22/24 14:42	1
1,4-Difluorobenzene (Surr)	102		70 - 130	11/22/24 10:47	11/22/24 14:42	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00200	0.00109	mg/Kg			11/22/24 14:42	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS09

Lab Sample ID: 880-51408-9

Date Collected: 11/21/24 14:20

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 02:51	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:51	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:51	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 02:51	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 02:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	85		70 - 130	11/27/24 11:06	12/03/24 02:51	1
o-Terphenyl	67	S1-	70 - 130	11/27/24 11:06	12/03/24 02:51	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.4		10.0	0.395	mg/Kg			11/23/24 05:54	1

Client Sample ID: FS10

Lab Sample ID: 880-51408-10

Date Collected: 11/21/24 14:22

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 16:16	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 16:16	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 16:16	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 16:16	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:16	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	11/22/24 10:47	11/22/24 16:16	1
1,4-Difluorobenzene (Surr)	95		70 - 130	11/22/24 10:47	11/22/24 16:16	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 16:16	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 03:07	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:07	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:07	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:07	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS10

Lab Sample ID: 880-51408-10

Date Collected: 11/21/24 14:22

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 6

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130				11/27/24 11:06	12/03/24 03:07	1
o-Terphenyl	68	S1-	70 - 130				11/27/24 11:06	12/03/24 03:07	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.01	J	10.0	0.395	mg/Kg			11/23/24 06:02	1

Client Sample ID: FS11

Lab Sample ID: 880-51408-11

Date Collected: 11/21/24 14:24

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130				11/22/24 10:47	11/22/24 16:37	1
1,4-Difluorobenzene (Surr)	99		70 - 130				11/22/24 10:47	11/22/24 16:37	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 16:37	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 03:39	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:39	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:39	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:39	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130				11/27/24 11:06	12/03/24 03:39	1
o-Terphenyl	65	S1-	70 - 130				11/27/24 11:06	12/03/24 03:39	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS11

Lab Sample ID: 880-51408-11

Date Collected: 11/21/24 14:24

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	23.8		10.0	0.395	mg/Kg			11/23/24 06:10	1

Client Sample ID: FS12

Lab Sample ID: 880-51408-12

Date Collected: 11/21/24 14:30

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00140	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
Toluene	<0.00201	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
o-Xylene	<0.00159	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 16:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130				11/22/24 10:47	11/22/24 16:57	1
1,4-Difluorobenzene (Surr)	102		70 - 130				11/22/24 10:47	11/22/24 16:57	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 16:57	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 03:54	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:54	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:54	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 03:54	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 03:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				11/27/24 11:06	12/03/24 03:54	1
o-Terphenyl	69	S1-	70 - 130				11/27/24 11:06	12/03/24 03:54	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.7		10.0	0.395	mg/Kg			11/22/24 21:48	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS13

Lab Sample ID: 880-51408-13

Date Collected: 11/21/24 15:00

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 17:18	1
Toluene	<0.00199	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 17:18	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 17:18	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 17:18	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:18	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	11/22/24 10:47	11/22/24 17:18	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/22/24 10:47	11/22/24 17:18	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 17:18	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.0	U	50.0	15.1	mg/Kg			12/03/24 04:11	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.4	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:11	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:11	1
Oil Range Organics (Over C28-C36)	<15.0	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:11	1
Total TPH	<15.0	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	11/27/24 11:06	12/03/24 04:11	1
o-Terphenyl	69	S1-	70 - 130	11/27/24 11:06	12/03/24 04:11	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.9		10.0	0.395	mg/Kg			11/22/24 22:08	1

Client Sample ID: FS14

Lab Sample ID: 880-51408-14

Date Collected: 11/21/24 15:22

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 17:38	1
Toluene	<0.00198	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 17:38	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 17:38	1
m-Xylene & p-Xylene	<0.00226	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 17:38	1
o-Xylene	<0.00157	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:38	1
Xylenes, Total	<0.00226	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:38	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS14

Lab Sample ID: 880-51408-14

Date Collected: 11/21/24 15:22

Matrix: Solid

Date Received: 11/22/24 09:45

Sample Depth: 4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	11/22/24 10:47	11/22/24 17:38	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/22/24 10:47	11/22/24 17:38	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00200	0.00109	mg/Kg			11/22/24 17:38	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 04:26	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:26	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:26	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:26	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	11/27/24 11:06	12/03/24 04:26	1
o-Terphenyl	66	S1-	70 - 130	11/27/24 11:06	12/03/24 04:26	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	142		10.0	0.395	mg/Kg			11/22/24 22:14	1

Client Sample ID: SW01

Lab Sample ID: 880-51408-15

Date Collected: 11/21/24 15:28

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 17:59	1
Toluene	<0.00199	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 17:59	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 17:59	1
m-Xylene & p-Xylene	<0.00227	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 17:59	1
o-Xylene	<0.00157	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:59	1
Xylenes, Total	<0.00227	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 17:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/22/24 10:47	11/22/24 17:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/22/24 10:47	11/22/24 17:59	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00227	U	0.00200	0.00109	mg/Kg			11/22/24 17:59	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 04:42	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW01

Lab Sample ID: 880-51408-15

Date Collected: 11/21/24 15:28

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:42	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:42	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:42	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	11/27/24 11:06	12/03/24 04:42	1
o-Terphenyl	76		70 - 130	11/27/24 11:06	12/03/24 04:42	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	33.4		10.0	0.395	mg/Kg			11/22/24 22:21	1

Client Sample ID: SW02

Lab Sample ID: 880-51408-16

Date Collected: 11/21/24 15:42

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 18:19	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 18:19	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 18:19	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 18:19	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 18:19	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 18:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	11/22/24 10:47	11/22/24 18:19	1
1,4-Difluorobenzene (Surr)	100		70 - 130	11/22/24 10:47	11/22/24 18:19	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 18:19	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 04:59	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:59	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:59	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 04:59	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 04:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	11/27/24 11:06	12/03/24 04:59	1
o-Terphenyl	86		70 - 130	11/27/24 11:06	12/03/24 04:59	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW02
Date Collected: 11/21/24 15:42
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-16
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.8		10.0	0.395	mg/Kg			11/22/24 22:28	1

Client Sample ID: SW03
Date Collected: 11/21/24 15:43
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-17
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
o-Xylene	<0.00159	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 18:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		70 - 130				11/22/24 10:47	11/22/24 18:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130				11/22/24 10:47	11/22/24 18:40	1

Method: TAL SOP Total BTEX - Total BTEX Calculation									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00229	U	0.00200	0.00109	mg/Kg			11/22/24 18:40	1

Method: SW846 8015 NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 05:14	1

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:14	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:14	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:14	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130				11/27/24 11:06	12/03/24 05:14	1
o-Terphenyl	77		70 - 130				11/27/24 11:06	12/03/24 05:14	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.9		10.0	0.395	mg/Kg			11/22/24 22:48	1

Client Sample ID: SW05
Date Collected: 11/21/24 15:48
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-18
Matrix: Solid

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 19:00	1
Toluene	<0.00199	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 19:00	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW05

Lab Sample ID: 880-51408-18

Date Collected: 11/21/24 15:48

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 19:00	1
m-Xylene & p-Xylene	<0.00228	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 19:00	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 19:00	1
Xylenes, Total	<0.00228	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 19:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130				11/22/24 10:47	11/22/24 19:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130				11/22/24 10:47	11/22/24 19:00	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00228	U	0.00200	0.00109	mg/Kg			11/22/24 19:00	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 05:31	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:31	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:31	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:31	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				11/27/24 11:06	12/03/24 05:31	1
o-Terphenyl	76		70 - 130				11/27/24 11:06	12/03/24 05:31	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359		10.0	0.395	mg/Kg			11/22/24 22:54	1

Client Sample ID: SW06

Lab Sample ID: 880-51408-19

Date Collected: 11/21/24 16:08

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00154	J	0.00200	0.00139	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
Toluene	<0.00198	U	0.00200	0.00200	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
m-Xylene & p-Xylene	<0.00226	U	0.00400	0.00229	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
o-Xylene	<0.00157	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
Xylenes, Total	<0.00226	U	0.00200	0.00158	mg/Kg		11/22/24 10:47	11/22/24 19:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				11/22/24 10:47	11/22/24 19:21	1
1,4-Difluorobenzene (Surr)	87		70 - 130				11/22/24 10:47	11/22/24 19:21	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW06

Lab Sample ID: 880-51408-19

Date Collected: 11/21/24 16:08

Matrix: Solid

Date Received: 11/22/24 09:45

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00200	0.00109	mg/Kg			11/22/24 19:21	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 05:46	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:46	1
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:46	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 05:46	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 05:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	157	S1+	70 - 130	11/27/24 11:06	12/03/24 05:46	1
o-Terphenyl	121		70 - 130	11/27/24 11:06	12/03/24 05:46	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9.52	J	10.0	0.395	mg/Kg			11/22/24 23:01	1

Client Sample ID: SW07

Lab Sample ID: 880-51408-20

Date Collected: 11/21/24 16:10

Matrix: Solid

Date Received: 11/22/24 09:45

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00138	U **	0.00200	0.00139	mg/Kg		11/22/24 10:52	11/22/24 11:52	1
Toluene	<0.00198	U	0.00200	0.00200	mg/Kg		11/22/24 10:52	11/22/24 11:52	1
Ethylbenzene	<0.00108	U	0.00200	0.00109	mg/Kg		11/22/24 10:52	11/22/24 11:52	1
m-Xylene & p-Xylene	<0.00226	U	0.00400	0.00229	mg/Kg		11/22/24 10:52	11/22/24 11:52	1
o-Xylene	<0.00157	U	0.00200	0.00158	mg/Kg		11/22/24 10:52	11/22/24 11:52	1
Xylenes, Total	<0.00226	U	0.00200	0.00158	mg/Kg		11/22/24 10:52	11/22/24 11:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	11/22/24 10:52	11/22/24 11:52	1
1,4-Difluorobenzene (Surr)	98		70 - 130	11/22/24 10:52	11/22/24 11:52	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00226	U	0.00200	0.00109	mg/Kg			11/22/24 11:52	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<15.1	U	50.0	15.1	mg/Kg			12/03/24 06:02	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 06:02	1

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Client Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW07
Date Collected: 11/21/24 16:10
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-20
Matrix: Solid

Method: SW846 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 06:02	1	
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/03/24 06:02	1	
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/03/24 06:02	1	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1-Chlorooctane	88		70 - 130				11/27/24 11:06	12/03/24 06:02	1	
o-Terphenyl	68	S1-	70 - 130				11/27/24 11:06	12/03/24 06:02	1	
Method: EPA 300.0 - Anions, Ion Chromatography - Soluble										
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	33.5		10.0	0.395	mg/Kg			11/22/24 23:08	1	

Surrogate Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	BFB1	DFBZ1				
		(70-130)	(70-130)				
880-51408-1	FS01	98	101				
880-51408-2	FS02	104	100				
880-51408-3	FS03	96	99				
880-51408-4	FS04	123	94				
880-51408-5	FS05	103	102				
880-51408-6	FS06	98	100				
880-51408-7	FS07	100	102				
880-51408-8	FS08	103	99				
880-51408-9	FS09	101	102				
880-51408-10	FS10	98	95				
880-51408-11	FS11	105	99				
880-51408-12	FS12	103	102				
880-51408-13	FS13	116	94				
880-51408-14	FS14	99	100				
880-51408-15	SW01	105	97				
880-51408-16	SW02	97	100				
880-51408-17	SW03	111	100				
880-51408-18	SW05	113	91				
880-51408-19	SW06	107	87				
880-51408-20	SW07	123	98				
LCS 880-96355/1-A	Lab Control Sample	117	96				
LCS 880-96361/1-A	Lab Control Sample	106	101				
LCSD 880-96355/2-A	Lab Control Sample Dup	118	97				
LCSD 880-96361/2-A	Lab Control Sample Dup	101	103				
MB 880-96355/5-A	Method Blank	122	93				
MB 880-96361/5-A	Method Blank	96	93				
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	OTPH1				
		(70-130)	(70-130)				
880-51408-1	FS01	97	78				
880-51408-1 MS	FS01	81	73				
880-51408-1 MSD	FS01	80	69 S1-				
880-51408-2	FS02	87	69 S1-				
880-51408-3	FS03	90	72				
880-51408-4	FS04	94	76				
880-51408-5	FS05	85	69 S1-				
880-51408-6	FS06	90	72				
880-51408-7	FS07	92	73				
880-51408-8	FS08	112	87				
880-51408-9	FS09	85	67 S1-				
880-51408-10	FS10	87	68 S1-				
880-51408-11	FS11	82	65 S1-				

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Surrogate Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-51408-12	FS12	90	69 S1-
880-51408-13	FS13	92	69 S1-
880-51408-14	FS14	87	66 S1-
880-51408-15	SW01	98	76
880-51408-16	SW02	107	86
880-51408-17	SW03	98	77
880-51408-18	SW05	97	76
880-51408-19	SW06	157 S1+	121
880-51408-20	SW07	88	68 S1-
LCS 880-96754/2-A	Lab Control Sample	102	89
LCSD 880-96754/3-A	Lab Control Sample Dup	106	95
MB 880-96754/1-A	Method Blank	121	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-96355/5-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96355

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 08:32	11/22/24 11:10	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 08:32	11/22/24 11:10	1
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 08:32	11/22/24 11:10	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 08:32	11/22/24 11:10	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 08:32	11/22/24 11:10	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 08:32	11/22/24 11:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	11/22/24 08:32	11/22/24 11:10	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/22/24 08:32	11/22/24 11:10	1

Lab Sample ID: LCS 880-96355/1-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96355

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1296		mg/Kg		130	70 - 130
Toluene	0.100	0.1221		mg/Kg		122	70 - 130
Ethylbenzene	0.100	0.1195		mg/Kg		120	70 - 130
m-Xylene & p-Xylene	0.200	0.2511		mg/Kg		126	70 - 130
o-Xylene	0.100	0.1220		mg/Kg		122	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-96355/2-A

Matrix: Solid

Analysis Batch: 96346

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96355

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1307	*+	mg/Kg		131	70 - 130	1	35
Toluene	0.100	0.1225		mg/Kg		123	70 - 130	0	35
Ethylbenzene	0.100	0.1211		mg/Kg		121	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2517		mg/Kg		126	70 - 130	0	35
o-Xylene	0.100	0.1230		mg/Kg		123	70 - 130	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	118		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: MB 880-96361/5-A

Matrix: Solid

Analysis Batch: 96348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96361

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00139	U	0.00200	0.00139	mg/Kg		11/22/24 09:32	11/22/24 11:15	1
Toluene	<0.00200	U	0.00200	0.00200	mg/Kg		11/22/24 09:32	11/22/24 11:15	1

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QC Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-96361/5-A

Matrix: Solid

Analysis Batch: 96348

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96361

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<0.00109	U	0.00200	0.00109	mg/Kg		11/22/24 09:32	11/22/24 11:15	1
m-Xylene & p-Xylene	<0.00229	U	0.00400	0.00229	mg/Kg		11/22/24 09:32	11/22/24 11:15	1
o-Xylene	<0.00158	U	0.00200	0.00158	mg/Kg		11/22/24 09:32	11/22/24 11:15	1
Xylenes, Total	<0.00229	U	0.00200	0.00158	mg/Kg		11/22/24 09:32	11/22/24 11:15	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	11/22/24 09:32	11/22/24 11:15	1
1,4-Difluorobenzene (Surr)	93		70 - 130	11/22/24 09:32	11/22/24 11:15	1

Lab Sample ID: LCS 880-96361/1-A

Matrix: Solid

Analysis Batch: 96348

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 96361

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1116		mg/Kg		112	70 - 130
Toluene	0.100	0.1090		mg/Kg		109	70 - 130
Ethylbenzene	0.100	0.1139		mg/Kg		114	70 - 130
m-Xylene & p-Xylene	0.200	0.2175		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1228		mg/Kg		123	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-96361/2-A

Matrix: Solid

Analysis Batch: 96348

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 96361

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1142		mg/Kg		114	70 - 130	2	35
Toluene	0.100	0.1112		mg/Kg		111	70 - 130	2	35
Ethylbenzene	0.100	0.1175		mg/Kg		117	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2253		mg/Kg		113	70 - 130	4	35
o-Xylene	0.100	0.1263		mg/Kg		126	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

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

Lab Sample ID: MB 880-96754/1-A

Matrix: Solid

Analysis Batch: 96876

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 96754

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/02/24 23:24	1

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QC Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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

Lab Sample ID: MB 880-96754/1-A
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 96754

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/02/24 23:24	1
Oil Range Organics (Over C28-C36)	<15.1	U	50.0	15.1	mg/Kg		11/27/24 11:06	12/02/24 23:24	1
Total TPH	<15.1	U	50.0	14.5	mg/Kg		11/27/24 11:06	12/02/24 23:24	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130	11/27/24 11:06	12/02/24 23:24	1
o-Terphenyl	94		70 - 130	11/27/24 11:06	12/02/24 23:24	1

Lab Sample ID: LCS 880-96754/2-A
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 96754

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		112	70 - 130
Diesel Range Organics (Over C10-C28)	1000	865.5		mg/Kg		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: LCSD 880-96754/3-A
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 96754

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1112		mg/Kg		111	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	1000	900.0		mg/Kg		90	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	95		70 - 130

Lab Sample ID: 880-51408-1 MS
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 96754

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	998	850.5		mg/Kg		85	70 - 130
Diesel Range Organics (Over C10-C28)	<15.1	U F1	998	711.2		mg/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	81		70 - 130

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QC Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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

Lab Sample ID: 880-51408-1 MS
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 96754

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	73		70 - 130

Lab Sample ID: 880-51408-1 MSD
Matrix: Solid
Analysis Batch: 96876

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 96754

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<14.5	U	998	838.9		mg/Kg		84	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<15.1	U F1	998	681.1	F1	mg/Kg		68	70 - 130	4	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
<i>o</i> -Terphenyl	69	S1-	70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-96376/1-A
Matrix: Solid
Analysis Batch: 96380

Client Sample ID: Method Blank
Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	<0.395	U	10.0	0.395	mg/Kg			11/23/24 02:38	1	

Lab Sample ID: LCS 880-96376/2-A
Matrix: Solid
Analysis Batch: 96380

Client Sample ID: Lab Control Sample
Prep Type: Soluble

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride		250	247.5		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-96376/3-A
Matrix: Solid
Analysis Batch: 96380

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

		Spike	LCSD	LCSD				%Rec		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	247.9		mg/Kg		99	90 - 110	0	20

Lab Sample ID: 880-51408-6 MS
Matrix: Solid
Analysis Batch: 96380

Client Sample ID: FS06
Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	31.9		248	284.8		mg/Kg		102	90 - 110	

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QC Sample Results

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-51408-6 MSD

Client Sample ID: FS06

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96380

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	31.9		248	285.1		mg/Kg		102	90 - 110	0	20

Lab Sample ID: MB 880-96390/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96405

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	10.0	0.395	mg/Kg			11/22/24 21:28	1

Lab Sample ID: LCS 880-96390/2-A

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96405

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			250	242.6		mg/Kg		97	90 - 110		

Lab Sample ID: LCSD 880-96390/3-A

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96405

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	245.5		mg/Kg		98	90 - 110	1	20

Lab Sample ID: 880-51408-12 MS

Client Sample ID: FS12

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96405

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	55.7		250	305.4		mg/Kg		100	90 - 110		

Lab Sample ID: 880-51408-12 MSD

Client Sample ID: FS12

Matrix: Solid

Prep Type: Soluble

Analysis Batch: 96405

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	55.7		250	313.2		mg/Kg		103	90 - 110	3	20

QC Association Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

GC VOA

Analysis Batch: 96346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-20	SW07	Total/NA	Solid	8021B	96355
MB 880-96355/5-A	Method Blank	Total/NA	Solid	8021B	96355
LCS 880-96355/1-A	Lab Control Sample	Total/NA	Solid	8021B	96355
LCSD 880-96355/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96355

Analysis Batch: 96348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	8021B	96361
880-51408-2	FS02	Total/NA	Solid	8021B	96361
880-51408-3	FS03	Total/NA	Solid	8021B	96361
880-51408-4	FS04	Total/NA	Solid	8021B	96361
880-51408-5	FS05	Total/NA	Solid	8021B	96361
880-51408-6	FS06	Total/NA	Solid	8021B	96361
880-51408-7	FS07	Total/NA	Solid	8021B	96361
880-51408-8	FS08	Total/NA	Solid	8021B	96361
880-51408-9	FS09	Total/NA	Solid	8021B	96361
880-51408-10	FS10	Total/NA	Solid	8021B	96361
880-51408-11	FS11	Total/NA	Solid	8021B	96361
880-51408-12	FS12	Total/NA	Solid	8021B	96361
880-51408-13	FS13	Total/NA	Solid	8021B	96361
880-51408-14	FS14	Total/NA	Solid	8021B	96361
880-51408-15	SW01	Total/NA	Solid	8021B	96361
880-51408-16	SW02	Total/NA	Solid	8021B	96361
880-51408-17	SW03	Total/NA	Solid	8021B	96361
880-51408-18	SW05	Total/NA	Solid	8021B	96361
880-51408-19	SW06	Total/NA	Solid	8021B	96361
MB 880-96361/5-A	Method Blank	Total/NA	Solid	8021B	96361
LCS 880-96361/1-A	Lab Control Sample	Total/NA	Solid	8021B	96361
LCSD 880-96361/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	96361

Prep Batch: 96355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-20	SW07	Total/NA	Solid	5035	
MB 880-96355/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96355/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96355/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Prep Batch: 96361

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	5035	
880-51408-2	FS02	Total/NA	Solid	5035	
880-51408-3	FS03	Total/NA	Solid	5035	
880-51408-4	FS04	Total/NA	Solid	5035	
880-51408-5	FS05	Total/NA	Solid	5035	
880-51408-6	FS06	Total/NA	Solid	5035	
880-51408-7	FS07	Total/NA	Solid	5035	
880-51408-8	FS08	Total/NA	Solid	5035	
880-51408-9	FS09	Total/NA	Solid	5035	
880-51408-10	FS10	Total/NA	Solid	5035	
880-51408-11	FS11	Total/NA	Solid	5035	
880-51408-12	FS12	Total/NA	Solid	5035	

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QC Association Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

GC VOA (Continued)

Prep Batch: 96361 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-13	FS13	Total/NA	Solid	5035	
880-51408-14	FS14	Total/NA	Solid	5035	
880-51408-15	SW01	Total/NA	Solid	5035	
880-51408-16	SW02	Total/NA	Solid	5035	
880-51408-17	SW03	Total/NA	Solid	5035	
880-51408-18	SW05	Total/NA	Solid	5035	
880-51408-19	SW06	Total/NA	Solid	5035	
MB 880-96361/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-96361/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-96361/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 96531

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	Total BTEX	
880-51408-2	FS02	Total/NA	Solid	Total BTEX	
880-51408-3	FS03	Total/NA	Solid	Total BTEX	
880-51408-4	FS04	Total/NA	Solid	Total BTEX	
880-51408-5	FS05	Total/NA	Solid	Total BTEX	
880-51408-6	FS06	Total/NA	Solid	Total BTEX	
880-51408-7	FS07	Total/NA	Solid	Total BTEX	
880-51408-8	FS08	Total/NA	Solid	Total BTEX	
880-51408-9	FS09	Total/NA	Solid	Total BTEX	
880-51408-10	FS10	Total/NA	Solid	Total BTEX	
880-51408-11	FS11	Total/NA	Solid	Total BTEX	
880-51408-12	FS12	Total/NA	Solid	Total BTEX	
880-51408-13	FS13	Total/NA	Solid	Total BTEX	
880-51408-14	FS14	Total/NA	Solid	Total BTEX	
880-51408-15	SW01	Total/NA	Solid	Total BTEX	
880-51408-16	SW02	Total/NA	Solid	Total BTEX	
880-51408-17	SW03	Total/NA	Solid	Total BTEX	
880-51408-18	SW05	Total/NA	Solid	Total BTEX	
880-51408-19	SW06	Total/NA	Solid	Total BTEX	
880-51408-20	SW07	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 96754

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	8015NM Prep	
880-51408-2	FS02	Total/NA	Solid	8015NM Prep	
880-51408-3	FS03	Total/NA	Solid	8015NM Prep	
880-51408-4	FS04	Total/NA	Solid	8015NM Prep	
880-51408-5	FS05	Total/NA	Solid	8015NM Prep	
880-51408-6	FS06	Total/NA	Solid	8015NM Prep	
880-51408-7	FS07	Total/NA	Solid	8015NM Prep	
880-51408-8	FS08	Total/NA	Solid	8015NM Prep	
880-51408-9	FS09	Total/NA	Solid	8015NM Prep	
880-51408-10	FS10	Total/NA	Solid	8015NM Prep	
880-51408-11	FS11	Total/NA	Solid	8015NM Prep	
880-51408-12	FS12	Total/NA	Solid	8015NM Prep	
880-51408-13	FS13	Total/NA	Solid	8015NM Prep	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Prep Batch: 96754 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-14	FS14	Total/NA	Solid	8015NM Prep	
880-51408-15	SW01	Total/NA	Solid	8015NM Prep	
880-51408-16	SW02	Total/NA	Solid	8015NM Prep	
880-51408-17	SW03	Total/NA	Solid	8015NM Prep	
880-51408-18	SW05	Total/NA	Solid	8015NM Prep	
880-51408-19	SW06	Total/NA	Solid	8015NM Prep	
880-51408-20	SW07	Total/NA	Solid	8015NM Prep	
MB 880-96754/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-96754/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-96754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-51408-1 MS	FS01	Total/NA	Solid	8015NM Prep	
880-51408-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 96876

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	8015B NM	96754
880-51408-2	FS02	Total/NA	Solid	8015B NM	96754
880-51408-3	FS03	Total/NA	Solid	8015B NM	96754
880-51408-4	FS04	Total/NA	Solid	8015B NM	96754
880-51408-5	FS05	Total/NA	Solid	8015B NM	96754
880-51408-6	FS06	Total/NA	Solid	8015B NM	96754
880-51408-7	FS07	Total/NA	Solid	8015B NM	96754
880-51408-8	FS08	Total/NA	Solid	8015B NM	96754
880-51408-9	FS09	Total/NA	Solid	8015B NM	96754
880-51408-10	FS10	Total/NA	Solid	8015B NM	96754
880-51408-11	FS11	Total/NA	Solid	8015B NM	96754
880-51408-12	FS12	Total/NA	Solid	8015B NM	96754
880-51408-13	FS13	Total/NA	Solid	8015B NM	96754
880-51408-14	FS14	Total/NA	Solid	8015B NM	96754
880-51408-15	SW01	Total/NA	Solid	8015B NM	96754
880-51408-16	SW02	Total/NA	Solid	8015B NM	96754
880-51408-17	SW03	Total/NA	Solid	8015B NM	96754
880-51408-18	SW05	Total/NA	Solid	8015B NM	96754
880-51408-19	SW06	Total/NA	Solid	8015B NM	96754
880-51408-20	SW07	Total/NA	Solid	8015B NM	96754
MB 880-96754/1-A	Method Blank	Total/NA	Solid	8015B NM	96754
LCS 880-96754/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	96754
LCSD 880-96754/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	96754
880-51408-1 MS	FS01	Total/NA	Solid	8015B NM	96754
880-51408-1 MSD	FS01	Total/NA	Solid	8015B NM	96754

Analysis Batch: 96968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Total/NA	Solid	8015 NM	
880-51408-2	FS02	Total/NA	Solid	8015 NM	
880-51408-3	FS03	Total/NA	Solid	8015 NM	
880-51408-4	FS04	Total/NA	Solid	8015 NM	
880-51408-5	FS05	Total/NA	Solid	8015 NM	
880-51408-6	FS06	Total/NA	Solid	8015 NM	
880-51408-7	FS07	Total/NA	Solid	8015 NM	
880-51408-8	FS08	Total/NA	Solid	8015 NM	

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

GC Semi VOA (Continued)

Analysis Batch: 96968 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-9	FS09	Total/NA	Solid	8015 NM	
880-51408-10	FS10	Total/NA	Solid	8015 NM	
880-51408-11	FS11	Total/NA	Solid	8015 NM	
880-51408-12	FS12	Total/NA	Solid	8015 NM	
880-51408-13	FS13	Total/NA	Solid	8015 NM	
880-51408-14	FS14	Total/NA	Solid	8015 NM	
880-51408-15	SW01	Total/NA	Solid	8015 NM	
880-51408-16	SW02	Total/NA	Solid	8015 NM	
880-51408-17	SW03	Total/NA	Solid	8015 NM	
880-51408-18	SW05	Total/NA	Solid	8015 NM	
880-51408-19	SW06	Total/NA	Solid	8015 NM	
880-51408-20	SW07	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 96376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Soluble	Solid	DI Leach	
880-51408-2	FS02	Soluble	Solid	DI Leach	
880-51408-3	FS03	Soluble	Solid	DI Leach	
880-51408-4	FS04	Soluble	Solid	DI Leach	
880-51408-5	FS05	Soluble	Solid	DI Leach	
880-51408-6	FS06	Soluble	Solid	DI Leach	
880-51408-7	FS07	Soluble	Solid	DI Leach	
880-51408-8	FS08	Soluble	Solid	DI Leach	
880-51408-9	FS09	Soluble	Solid	DI Leach	
880-51408-10	FS10	Soluble	Solid	DI Leach	
880-51408-11	FS11	Soluble	Solid	DI Leach	
MB 880-96376/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96376/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96376/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51408-6 MS	FS06	Soluble	Solid	DI Leach	
880-51408-6 MSD	FS06	Soluble	Solid	DI Leach	

Analysis Batch: 96380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-1	FS01	Soluble	Solid	300.0	96376
880-51408-2	FS02	Soluble	Solid	300.0	96376
880-51408-3	FS03	Soluble	Solid	300.0	96376
880-51408-4	FS04	Soluble	Solid	300.0	96376
880-51408-5	FS05	Soluble	Solid	300.0	96376
880-51408-6	FS06	Soluble	Solid	300.0	96376
880-51408-7	FS07	Soluble	Solid	300.0	96376
880-51408-8	FS08	Soluble	Solid	300.0	96376
880-51408-9	FS09	Soluble	Solid	300.0	96376
880-51408-10	FS10	Soluble	Solid	300.0	96376
880-51408-11	FS11	Soluble	Solid	300.0	96376
MB 880-96376/1-A	Method Blank	Soluble	Solid	300.0	96376
LCS 880-96376/2-A	Lab Control Sample	Soluble	Solid	300.0	96376
LCSD 880-96376/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96376
880-51408-6 MS	FS06	Soluble	Solid	300.0	96376

Eurofins Midland

QC Association Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

HPLC/IC (Continued)

Analysis Batch: 96380 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-6 MSD	FS06	Soluble	Solid	300.0	96376

Leach Batch: 96390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-12	FS12	Soluble	Solid	DI Leach	
880-51408-13	FS13	Soluble	Solid	DI Leach	
880-51408-14	FS14	Soluble	Solid	DI Leach	
880-51408-15	SW01	Soluble	Solid	DI Leach	
880-51408-16	SW02	Soluble	Solid	DI Leach	
880-51408-17	SW03	Soluble	Solid	DI Leach	
880-51408-18	SW05	Soluble	Solid	DI Leach	
880-51408-19	SW06	Soluble	Solid	DI Leach	
880-51408-20	SW07	Soluble	Solid	DI Leach	
MB 880-96390/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-96390/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-96390/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-51408-12 MS	FS12	Soluble	Solid	DI Leach	
880-51408-12 MSD	FS12	Soluble	Solid	DI Leach	

Analysis Batch: 96405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-51408-12	FS12	Soluble	Solid	300.0	96390
880-51408-13	FS13	Soluble	Solid	300.0	96390
880-51408-14	FS14	Soluble	Solid	300.0	96390
880-51408-15	SW01	Soluble	Solid	300.0	96390
880-51408-16	SW02	Soluble	Solid	300.0	96390
880-51408-17	SW03	Soluble	Solid	300.0	96390
880-51408-18	SW05	Soluble	Solid	300.0	96390
880-51408-19	SW06	Soluble	Solid	300.0	96390
880-51408-20	SW07	Soluble	Solid	300.0	96390
MB 880-96390/1-A	Method Blank	Soluble	Solid	300.0	96390
LCS 880-96390/2-A	Lab Control Sample	Soluble	Solid	300.0	96390
LCSD 880-96390/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	96390
880-51408-12 MS	FS12	Soluble	Solid	300.0	96390
880-51408-12 MSD	FS12	Soluble	Solid	300.0	96390

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS01

Lab Sample ID: 880-51408-1

Date Collected: 11/21/24 10:42

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 11:58
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 11:58
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 00:13
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 00:13
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:16

Client Sample ID: FS02

Lab Sample ID: 880-51408-2

Date Collected: 11/21/24 10:44

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 12:18
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 12:18
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 01:00
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 01:00
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:24

Client Sample ID: FS03

Lab Sample ID: 880-51408-3

Date Collected: 11/21/24 10:46

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 12:39
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 12:39
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 01:17
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 01:17
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:32

Client Sample ID: FS04

Lab Sample ID: 880-51408-4

Date Collected: 11/21/24 10:48

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 12:59
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 12:59

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS04

Lab Sample ID: 880-51408-4

Date Collected: 11/21/24 10:48

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 01:32
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 01:32
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:40

Client Sample ID: FS05

Lab Sample ID: 880-51408-5

Date Collected: 11/21/24 12:08

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 13:20
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 13:20
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 01:48
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 01:48
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:49

Client Sample ID: FS06

Lab Sample ID: 880-51408-6

Date Collected: 11/21/24 13:00

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 13:40
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 13:40
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 02:04
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 02:04
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 04:57

Client Sample ID: FS07

Lab Sample ID: 880-51408-7

Date Collected: 11/21/24 13:30

Matrix: Solid

Date Received: 11/22/24 09:45

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 14:01
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 14:01
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 02:20
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 02:20

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Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS07
Date Collected: 11/21/24 13:30
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 05:21

Client Sample ID: FS08
Date Collected: 11/21/24 13:40
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 14:21
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 14:21
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 02:35
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 02:35
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 05:29

Client Sample ID: FS09
Date Collected: 11/21/24 14:20
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 14:42
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 14:42
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 02:51
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 02:51
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 05:54

Client Sample ID: FS10
Date Collected: 11/21/24 14:22
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 16:16
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 16:16
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 03:07
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 03:07
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 06:02

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS11
Date Collected: 11/21/24 14:24
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 16:37
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 16:37
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 03:39
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 03:39
Soluble	Leach	DI Leach			96376	SA	EET MID	11/22/24 11:15
Soluble	Analysis	300.0		1	96380	SMC	EET MID	11/23/24 06:10

Client Sample ID: FS12
Date Collected: 11/21/24 14:30
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 16:57
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 16:57
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 03:54
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 03:54
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 21:48

Client Sample ID: FS13
Date Collected: 11/21/24 15:00
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 17:18
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 17:18
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 04:11
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 04:11
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:08

Client Sample ID: FS14
Date Collected: 11/21/24 15:22
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 17:38
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 17:38

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: FS14
Date Collected: 11/21/24 15:22
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 04:26
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 04:26
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:14

Client Sample ID: SW01
Date Collected: 11/21/24 15:28
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 17:59
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 17:59
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 04:42
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 04:42
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:21

Client Sample ID: SW02
Date Collected: 11/21/24 15:42
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-16
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 18:19
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 18:19
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 04:59
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 04:59
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:28

Client Sample ID: SW03
Date Collected: 11/21/24 15:43
Date Received: 11/22/24 09:45

Lab Sample ID: 880-51408-17
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 18:40
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 18:40
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 05:14
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 05:14

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Client Sample ID: SW03**Lab Sample ID: 880-51408-17****Date Collected: 11/21/24 15:43****Matrix: Solid****Date Received: 11/22/24 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:48

Client Sample ID: SW05**Lab Sample ID: 880-51408-18****Date Collected: 11/21/24 15:48****Matrix: Solid****Date Received: 11/22/24 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 19:00
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 19:00
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 05:31
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 05:31
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 22:54

Client Sample ID: SW06**Lab Sample ID: 880-51408-19****Date Collected: 11/21/24 16:08****Matrix: Solid****Date Received: 11/22/24 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96361	MNR	EET MID	11/22/24 10:47
Total/NA	Analysis	8021B		1	96348	EL	EET MID	11/22/24 19:21
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 19:21
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 05:46
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 05:46
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 23:01

Client Sample ID: SW07**Lab Sample ID: 880-51408-20****Date Collected: 11/21/24 16:10****Matrix: Solid****Date Received: 11/22/24 09:45**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			96355	MNR	EET MID	11/22/24 10:52
Total/NA	Analysis	8021B		1	96346	EL	EET MID	11/22/24 11:52
Total/NA	Analysis	Total BTEX		1	96531	SM	EET MID	11/22/24 11:52
Total/NA	Analysis	8015 NM		1	96968	SM	EET MID	12/03/24 06:02
Total/NA	Prep	8015NM Prep			96754	EL	EET MID	11/27/24 11:06
Total/NA	Analysis	8015B NM		1	96876	TKC	EET MID	12/03/24 06:02
Soluble	Leach	DI Leach			96390	SA	EET MID	11/22/24 14:16
Soluble	Analysis	300.0		1	96405	SMC	EET MID	11/22/24 23:08

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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

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Accreditation/Certification Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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	06-30-25
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
8015B NM	8015NM Prep	Solid	Total TPH
Total BTEX		Solid	Total BTEX

Method Summary

Client: Ensolum
Project/Site: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

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: NM State #020

Job ID: 880-51408-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-51408-1	FS01	Solid	11/21/24 10:42	11/22/24 09:45	4
880-51408-2	FS02	Solid	11/21/24 10:44	11/22/24 09:45	7
880-51408-3	FS03	Solid	11/21/24 10:46	11/22/24 09:45	7
880-51408-4	FS04	Solid	11/21/24 10:48	11/22/24 09:45	8
880-51408-5	FS05	Solid	11/21/24 12:08	11/22/24 09:45	8
880-51408-6	FS06	Solid	11/21/24 13:00	11/22/24 09:45	8
880-51408-7	FS07	Solid	11/21/24 13:30	11/22/24 09:45	8
880-51408-8	FS08	Solid	11/21/24 13:40	11/22/24 09:45	6
880-51408-9	FS09	Solid	11/21/24 14:20	11/22/24 09:45	6
880-51408-10	FS10	Solid	11/21/24 14:22	11/22/24 09:45	6
880-51408-11	FS11	Solid	11/21/24 14:24	11/22/24 09:45	4
880-51408-12	FS12	Solid	11/21/24 14:30	11/22/24 09:45	4
880-51408-13	FS13	Solid	11/21/24 15:00	11/22/24 09:45	4
880-51408-14	FS14	Solid	11/21/24 15:22	11/22/24 09:45	4
880-51408-15	SW01	Solid	11/21/24 15:28	11/22/24 09:45	
880-51408-16	SW02	Solid	11/21/24 15:42	11/22/24 09:45	
880-51408-17	SW03	Solid	11/21/24 15:43	11/22/24 09:45	
880-51408-18	SW05	Solid	11/21/24 15:48	11/22/24 09:45	
880-51408-19	SW06	Solid	11/21/24 16:08	11/22/24 09:45	
880-51408-20	SW07	Solid	11/21/24 16:10	11/22/24 09:45	

Custody

Dallas, TX (214) 902-0300
 1 Antonio, TX (210) 509-3334
 Abbeok, TX (806) 794-1296
 Arlsbad, NM (575) 988-3199



880-51408 Chain of Custody



Environme
Xenco

Work Order No: 408

www.xenco.com Page 1 of 2

Project Manager: Brian Salzbberger
 Company Name: Ensofium, LLC
 Address: 601 N Marienfield
 City, State ZIP: Midland, TX, 79701
 Phone: 720-376-8066
 Email: bsalzbberger@ensofium.com

Project Name: NW STATE #020
 Project Number: OSC2344001
 Project Location: Eddy County NM
 Sampler's Name: Budh Azuka
 PO #: OSC2344001

Bill To: (if different)
 Company Name:
 Address:
 City, State ZIP:
 Email:

Turn Around
☒ Routine ☐ Rush
 Due Date:
 TAT starts the day received by the lab, if received by 4:30pm

Wet Ice: ☒ Yes ☐ No
 Thermometer ID: TR-8
 Correction Factor: 0.9
 Temperature Reading: 0.8
 Corrected Temperature: 0.8

Thermometer Blank: ☒ Yes ☐ No
 Samples Received Intact: ☒ Yes ☐ No
 Cooler Custody Seals: ☒ Yes ☐ No
 Sample Custody Seals: ☒ Yes ☐ No
 Total Containers: 0.8

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters	Pres. Code	ANALYSIS REQUEST	Preservative Codes	Sample Comments
FS01	S	11/21/24	1042	4	C	1	BTX			None: NO	
FS02			1044	7	C	1	TPH			Cool: Cool	
FS03			1546	7	C	1				HCL: HC	
FS04			1048	8	C	1				H ₂ SO ₄ : H ₂	
FS05			1208	8	C	1				H ₃ PO ₄ : HP	
FS06			1300	8	C	1				NaHSO ₄ : NABIS	
FS07			1330	8	C	1				Na ₂ S ₂ O ₃ : NaSO ₃	
FS08			1340	6	C	1				Zn Acetate+NaOH: Zn	
FS09			1420	6	C	1				NaOH+Ascorbic Acid: SAPC	
FS10	S	11/21/24	1422	6	C	1					

Total 2007/6010 200.8/6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti 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 Ti 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
<i>[Signature]</i>	<i>[Signature]</i>	11/22/24	<i>[Signature]</i>	<i>[Signature]</i>	
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	
<i>[Signature]</i>	<i>[Signature]</i>		<i>[Signature]</i>	<i>[Signature]</i>	

Revised Date: 08/25/2020 Rev. 2002

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

Environment Testing
 Xenco



Work Order No: 408

www.xenco.com Page 2 of 2

Work Order Comments

Program: ☐ UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐

State of Project: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Reporting: ☐ Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐

Deliverables: ☐ EDD ☐ ADAPT ☐ Other:

Project Manager: Brian Sulzberger

Company Name: Enviro, LLC

Address: 601 N. Marlen Field

City, State ZIP: Midland, TX, 79701

Phone: 720-376-8066

Bill to: (if different)

Company Name:

Address:

City, State ZIP:

Email: bsulzberger@enviro.com

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	Parameters		Preservative Codes	Sample Comments
							Temp Blank:	Wet Ice:		
FS11	S	11/21/24	1424	4	C	1	Yes	No	None: NO	DI Water: H ₂ O
FS12	S	11/21/24	1430	4	C	1	Yes	No	Cool: Cool	MeOH: Me
FS13	S	11/21/24	1500	4	C	1	Yes	No	HCL: HC	HNO ₃ : HN
FS14	S	11/21/24	1522	4	C	1	Yes	No	H ₂ SO ₄ : H ₂	NaOH: Na
SW01	S	11/21/24	1528	-	C	1	Yes	No	H ₃ PO ₄ : HP	NaHSO ₄ : NABIS
SW02	S	11/21/24	1542	-	C	1	Yes	No	Na ₂ S ₂ O ₃ : NaSO ₃	Zn Acetate+NaOH: Zn
SW03	S	11/21/24	1543	-	C	1	Yes	No	NaOH+Ascorbic Acid: SAPC	
SW05	S	11/21/24	1548	-	C	1	Yes	No		
SW06	S	11/21/24	1608	-	C	1	Yes	No		
SW07	S	11/21/24	1610	-	C	1	Yes	No		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Ti 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 Ti 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
		11/21/24 1424			

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-51408-1

SDG Number: Eddy County NM

Login Number: 51408

List Number: 1

List Source: Eurofins Midland

Creator: Vasquez, Julisa

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	



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

November 21, 2024

BRIAN SULZBERGER

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: NW STATE #020

Enclosed are the results of analyses for samples received by the laboratory on 11/19/24 17:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in dark ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BRIAN SULZBERGER
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/19/2024
Reported: 11/21/2024
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: FLEX - EDDY CO.

Sampling Date: 11/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS01 (H247064-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1	
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7	
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7	
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7	
Total BTX	<0.300	0.300	11/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2024	ND	432	108	400	10.5	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	129	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	35.2	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 98.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM
BRIAN SULZBERGER
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/19/2024
Reported: 11/21/2024
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: FLEX - EDDY CO.

Sampling Date: 11/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: FS04 (H247064-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEx	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	11/20/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	110	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	28.5	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM
BRIAN SULZBERGER
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 11/19/2024
Reported: 11/21/2024
Project Name: NW STATE #020
Project Number: 09C2344001
Project Location: FLEX - EDDY CO.

Sampling Date: 11/19/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW04 (H247064-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/20/2024	ND	1.73	86.7	2.00	13.1		
Toluene*	<0.050	0.050	11/20/2024	ND	1.79	89.3	2.00	12.7		
Ethylbenzene*	<0.050	0.050	11/20/2024	ND	1.78	89.0	2.00	12.7		
Total Xylenes*	<0.150	0.150	11/20/2024	ND	5.28	88.0	6.00	12.7		
Total BTEX	<0.300	0.300	11/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	11/20/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/20/2024	ND	223	111	200	0.920	
DRO >C10-C28*	<10.0	10.0	11/20/2024	ND	221	111	200	1.26	
EXT DRO >C28-C36	<10.0	10.0	11/20/2024	ND					

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager

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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

QUESTIONS

Action 505622

QUESTIONS

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2428539636
Incident Name	NAPP2428539636 NW STATE #020 @ 30-015-30892
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-30892] NW STATE #020

Location of Release Source*Please answer all the questions in this group.*

Site Name	NW STATE #020
Date Release Discovered	10/06/2024
Surface Owner	State

Incident Details*Please answer all the questions in this group.*

Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Cause: Human Error Flow Line - Production Crude Oil Released: 20 BBL Recovered: 17 BBL Lost: 3 BBL.
Produced Water Released (bbls) Details	Cause: Human Error Flow Line - Production Produced Water Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Roustabout crew had plugged the NW State 14 well and had removed flowlines from that well. This well was tied into the NW State 20 flowline. NW State 14 flow line was cut after the tee leaving it open to atmosphere causing a spill.

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QUESTIONS, Page 2

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	False
If all the actions described above have not been undertaken, explain why	Some of the released fluids have soaked into the surface soils off pad

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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.

I hereby agree and sign off to the above statement	Name: Tacoma Morrissey Title: Consultant Email: tmorrissey@ensolum.com Date: 09/12/2025
--	--

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QUESTIONS, Page 3

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between ½ and 1 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 500 and 1000 (ft.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	359
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	14.1
GRO+DRO (EPA SW-846 Method 8015M)	14.1
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	11/19/2024
On what date will (or did) the final sampling or liner inspection occur	05/02/2025
On what date will (or was) the remediation complete(d)	05/02/2025
What is the estimated surface area (in square feet) that will be reclaimed	2956
What is the estimated volume (in cubic yards) that will be reclaimed	750
What is the estimated surface area (in square feet) that will be remediated	2956
What is the estimated volume (in cubic yards) that will be remediated	750

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	Not answered.
OR which OCD approved well (API) will be used for off-site disposal	30-015-30892 NW STATE #020
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
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.	
I hereby agree and sign off to the above statement	Name: Tacoma Morrissey Title: Consultant Email: tmorrissey@ensolum.com Date: 09/12/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID:
	330447
	Action Number:
	505622
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	426666
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/05/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	800

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2956
What was the total volume (cubic yards) remediated	750
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	2956
What was the total volume (in cubic yards) reclaimed	750
Summarize any additional remediation activities not included by answers (above)	Site assessment and excavation activities were conducted at the Site to address the October 6, 2024, crude oil release. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that all COC concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Flex will backfill the excavation with material purchased locally and recontour the Site to match pre-existing site conditions. The disturbed pasture area will be re-seeded with an approved SLO seed mixture. Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no other sensitive receptors were identified near the release extent. Riley believes these remedial actions are protective of human health, the environment, and groundwater. As such, Riley respectfully requests closure for Incident Number NAPP2428539636.

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 (in .pdf format) 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.

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.

I hereby agree and sign off to the above statement	Name: Tacoma Morrissey Title: Consultant Email: tmorrissey@ensolum.com Date: 09/12/2025
--	--

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QUESTIONS, Page 7

Action 505622

QUESTIONS (continued)

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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State of New Mexico
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CONDITIONS

Action 505622

CONDITIONS

Operator: Contango Resources, LLC 3230 Camp Bowie Blvd FORT WORTH, TX 76107	OGRID: 330447
	Action Number: 505622
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	11/12/2025