ENSOLUM

REVISED CLOSURE REPORT

Property:

Tank Line 5202 to Booster (W14-117) & Tank 5604 Suction Line (W14-131) Releases

Hobbs Station
32.650447, -103.140181
Off County Road 61 (ARCO Road)
Section 22 Township 19 South, Range 38 East
Hobbs, Lea County, New Mexico
Event Dates: July 13, 2014 & July 27, 2014
EMNRD OCD RP: 1RP-3242 & 1RP-3243
EMNRD OCD Incident ID: NTO1422647809 & NTO1422648223

September 3, 2024
Ensolum Project No. 03B1226295

Prepared for:

Enterprise Crude Pipeline, LLC
PO Box 4324
Houston, TX 77210

Attn: Christopher Spore, P.G.

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Project Geologist

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ENSOLUM

TABLE OF CONTENTS

LIST OF APPENDICES

ENSOLUM

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Ensolum Project No. 03B1226295

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Crude Pipeline, LLC (Enterprise)
Site Name:	Tank Line 5202 to Booster (W14-117) & Tank 5604 Suction Line (W14-131) Releases
Location:	Hobbs Station 32.650447, -103.140181 Off County Road 61 (ARCO Road) Section 22 Township 19 South, Range 38 East Hobbs, Lea County, New Mexico
Property:	Private (Enterprise Crude Pipeline, LLC)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

Site A

On July 13, 2014, Enterprise personnel discovered an area of surface staining in the vicinity of the 12-inch tank line connected to Enterprise crude oil Tank #5202 (Site A). The New Mexico EMNRD OCD RP# associated with the Site A release is 1RP-3243 (Incident No. NTO1422648223). The release occurred in the subsurface and followed the tank line right-of-way. A vacuum truck was immediately dispatched to Site A in order to recover standing crude oil. A hydro-vacuum (hydrovac) truck and a roustabout crew also mobilized to Site A after the discovery of the release to assist with uncovering the tank line for repairs. After the tank line was uncovered, an Enterprise technician identified a 2-inch hole in the tank line as the source of the release. The hole was located approximately 6-feet from a welded joint on the tank line.

Enterprise personnel estimated the crude oil release volume for Site A at approximately 150 barrels (bbls). An approximate 89 bbls of crude oil was recovered during initial response actions. The New Mexico EMNRD OCD was appropriately notified on July 23, 2014. It was determined that the cause of the release was attributed to internal corrosion.

Site B

During the completion of remediation activities for the initial release, a second release occurred at Site B. On July 27, 2014, a second release was discovered located along a tank suction line associated with the on-Site Enterprise crude oil Tank #5604 (Site B), approximately 386 feet to the southeast of Site A. The New Mexico EMNRD OCD RP# associated with the Site B release is 1RP-3242 (Incident No. NTO1422647809). The release occurred and was contained within the Tank #5604 berm. The cause of the release was determined to be corrosion on the 10-inch tank suction line. A hydrovac and roustabout crew were immediately dispatched to Site B to assist in recovering standing crude oil and to uncover the line for repair. Enterprise personnel estimated the crude oil release volume for Site B at approximately 8 bbls, with an approximate 4 bbls recovered during initial response actions.

The **Topographic Map** depicting the location of the Site is included as **Figure 1**, and the **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases,* which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**. Approximately 21 water wells were identified within half a mile of the Site on the OSE Water Rights Reporting System (WRRS) database.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are seven freshwater well records identified within 1,000 feet of the Site (two domestic, one public works construction, and four monitoring wells).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a relatively stable area, also referred to as low karst.
- The Site is not located within a 100-year floodplain.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

Site A

An initial Site visit was conducted by Apex TITAN, Inc. (Apex) on July 14, 2014, to oversee initial hydro-excavation activities associated with the release at Site A (Incident No. NTO1422648223). A 2-inch hole was identified by an Enterprise technician approximately 6-feet from a welded joint in the tank line, and was subsequently clamped by Walton Construction Company, Inc. (Walton).

The surficial crude oil staining in the vicinity of the Site A release measured approximately 100 feet long by 100 feet wide, and the depth of impact measured approximately 3-feet below ground surface (bgs). During this time, Unique Vacuum Services, LLC (Unique) recovered free standing crude oil and utilized heavy mechanical equipment to scrape the identified area of surficial staining to an approximate depth of 6-inches bgs. Impacted soil was removed into stockpiles on-Site to dry in preparation for disposal. An approximate 89 bbls of crude oil was recovered during initial response activities.

Riley Industrial Services (Riley) began hydro excavation of impacted soil around the tank line and the removal of impacted material from below the release point. From July 15 to July 17, 2014, Apex oversaw hydro excavation activities at the Site and utilized a manual hand auger to assess the depth of crude oil impacts within the stained area. On July 29, 2014, Apex oversaw remediation activities associated with the application of a microbial-decomposition product (Microblaze®) to introduce additional nonpathogenic bacterial strains designed to metabolize petroleum hydrocarbons. The Microblaze® was applied to the entire area of the surficial stained area at Site A.

Site B

Subsequent to the initiation of response actions at Site A, a second crude oil release occurred at Site B (Incident No. NTO1422647809). The release was contained within the Enterprise Tank #5604 berm. The surficial staining measured approximately 14-feet long by 6-feet wide, and the depth of impact associated with the release at Site B measured approximately 3-feet bgs.

From July 29 to August 1, 2014, Apex and Riley commenced hydro excavation of the impacted soils in the vicinity of the release point on the tank suction line at Site B. The affected soil was removed and placed into stockpiles on-Site in preparation for disposal. Once the tank suction line was uncovered, an Enterprise technician discovered a 0.25-inch hole, located approximately 0.5 inches from a welded joint. The hole on the tank suction line, which was subsequently clamped by Walton.

Based on the information in the December 1, 2016 Apex letter report, the final excavation dimensions associated with the release at Site A were approximately 15 feet long, by varying widths of 3 to 5 feet, with a total depth of approximately 3 feet bgs at the release point. The final excavation dimensions associated with the release at Site B were approximately 14 feet long by 6 feet wide, with a total depth of approximately 3 feet bgs at the release point. Approximately 176 cubic yards (cy) of affected soil associated with the releases from Site A and Site B were transported off-Site for disposal by Sundance Services, Inc. to the Parabo Disposal facility located in Eunice, New Mexico.

Previous Soil Sampling

On September 23, 2014, Apex returned to the Site in order to assess the in-situ soils subsequent to the application of Microblaze® associated with Site A and the completion of excavation efforts associated with Site B. Apex collected 15 confirmation soil samples (FP-1 through FP-15) from the excavated areas of former surficial staining, or flow paths, associated with both releases (Site A and Site B). A copy of the Apex letter report, dated December 1, 2016, detailing the remediation and sampling activities can be found included in the appendix of the *Revised Closure Report* prepared by Ensolum and dated August 11, 2023.

On July 5 and July 18, 2023, at the request of the NMOCD, Ensolum arrived on-Site and collected a total of five composite soil samples from the four locations that had previously exceeded the applicable New Mexico EMNRD OCD Closure Criteria for TPH (RE-FP-1, RE2-FP-1, RE-FP-5, RE-FP-6 and RE-FP-15), at a depth of 3-feet bgs within the release area. Details regarding the sampling activities can be found in the *Revised Closure Report* prepared by Ensolum and dated August 11, 2023.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**).

4.0 SOIL SAMPLING PROGRAM

Based on correspondence received from the NMOCD subsequent to the submittal of the *Revised Closure Report* prepared by Ensolum and dated August 11, 2023, additional sampling analyses were requested.

Between February 28 and July 8, 2024, Ensolum arrived on-Site and collected a total of 36 composite soil samples from 15 locations that had originally been sampled (FP-1 through FP-15), at a depth of 3 feet bgs. Boreholes were installed to a depth of 3 feet bgs at each of these original 15 sample locations utilizing a hydrovac.

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Eurofins laboratory in Midland, Texas under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The confirmation soil samples were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations and/or laboratory sample detection limits (SDLs) associated with the final composite soil samples (FP-1 through FP-15) collected from the soils remaining in place to the New Mexico EMNRD OCD closure criteria.

- Laboratory analytical results indicate benzene concentrations for the composite soil samples are below the laboratory SDLs, which are below the applicable New Mexico EMNRD OCD closure criteria of 10 mg/kg.

- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples are below the laboratory SDLs, which are below the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.

- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for soils remaining in place do not exceed the laboratory SDLs and/or the New Mexico EMNRD OCD closure criteria of 100 mg/kg for groundwater ≤ 50 feet.

- Laboratory analytical results indicate chloride concentrations for the composite soil samples are below the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for groundwater ≤ 50 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D.**

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the boreholes were backfilled with clean fill material, and then contoured to the original surrounding grade. The spill area is on a caliche pad, wholly contained within the Hobbs Station, and does not require reclamation and/or re-vegetation at this time.

8.0 FINDINGS AND RECOMMENDATION

- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.

- In 2014, Apex conducted remediation activities at the Site, and collected 15 confirmation soil samples (FP-1 through FP-15) from the excavated areas of former surficial staining, or flow paths, associated with both releases (Site A and Site B). The remediation and sampling activities are detailed in a letter report prepared by Apex and dated December 1, 2016.

- On July 5 and July 18, 2023, at the request of NMOCD, Ensolum arrived on-Site and collected a total of five composite soil samples from the four locations that had previously exceeded the applicable New Mexico EMNRD OCD Closure Criteria for TPH (RE-FP-1, RE2-FP-1, RE-FP-5, RE-FP-6 and RE-FP-15), at a depth of 3-feet bgs within the release area. Details regarding the sampling activities can be found in the *Revised Closure Report* prepared by Ensolum and dated August 11, 2023.

- Based on correspondence received from the NMOCD subsequent to the submittal of the *Revised Closure Report* prepared by Ensolum and dated August 11, 2023, additional sampling analyses were requested.

- Between February 28 and July 8, 2024, Ensolum arrived on-Site and collected a total of 36 composite soil samples from 15 locations that had originally been sampled (FP-1 through FP-15), at a depth of 3 feet bgs. Boreholes were installed to a depth of 3 feet bgs at each of these original 15 sample locations utilizing a hydrovac.

- Based on the laboratory analytical results, the final composite soil samples for the soils left in place at the Site did not exhibit total benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable New Mexico EMNRD OCD closure criteria.

- Subsequent to the results of the soil sampling, the boreholes were backfilled with clean fill material, and then contoured to the original surrounding grade. The spill area is on a caliche pad, wholly contained within the Hobbs Station, and does not require reclamation and/or re-vegetation at this time.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendations are based solely upon data available to Ensolum at the time of these services.

9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Crude Pipeline, LLC, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Enterprise Transportation Company, LLC and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.

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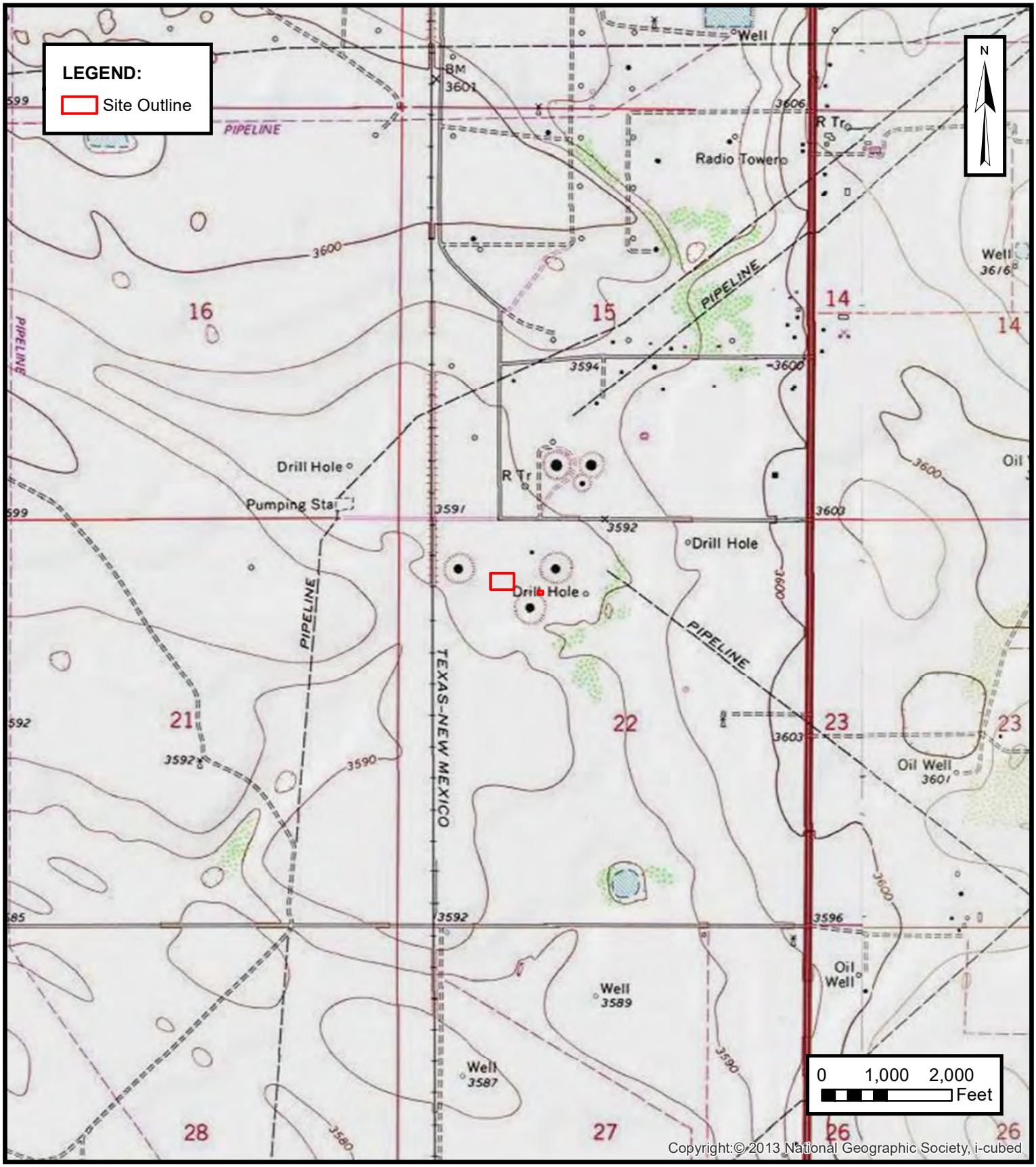
APPENDIX A

Figures



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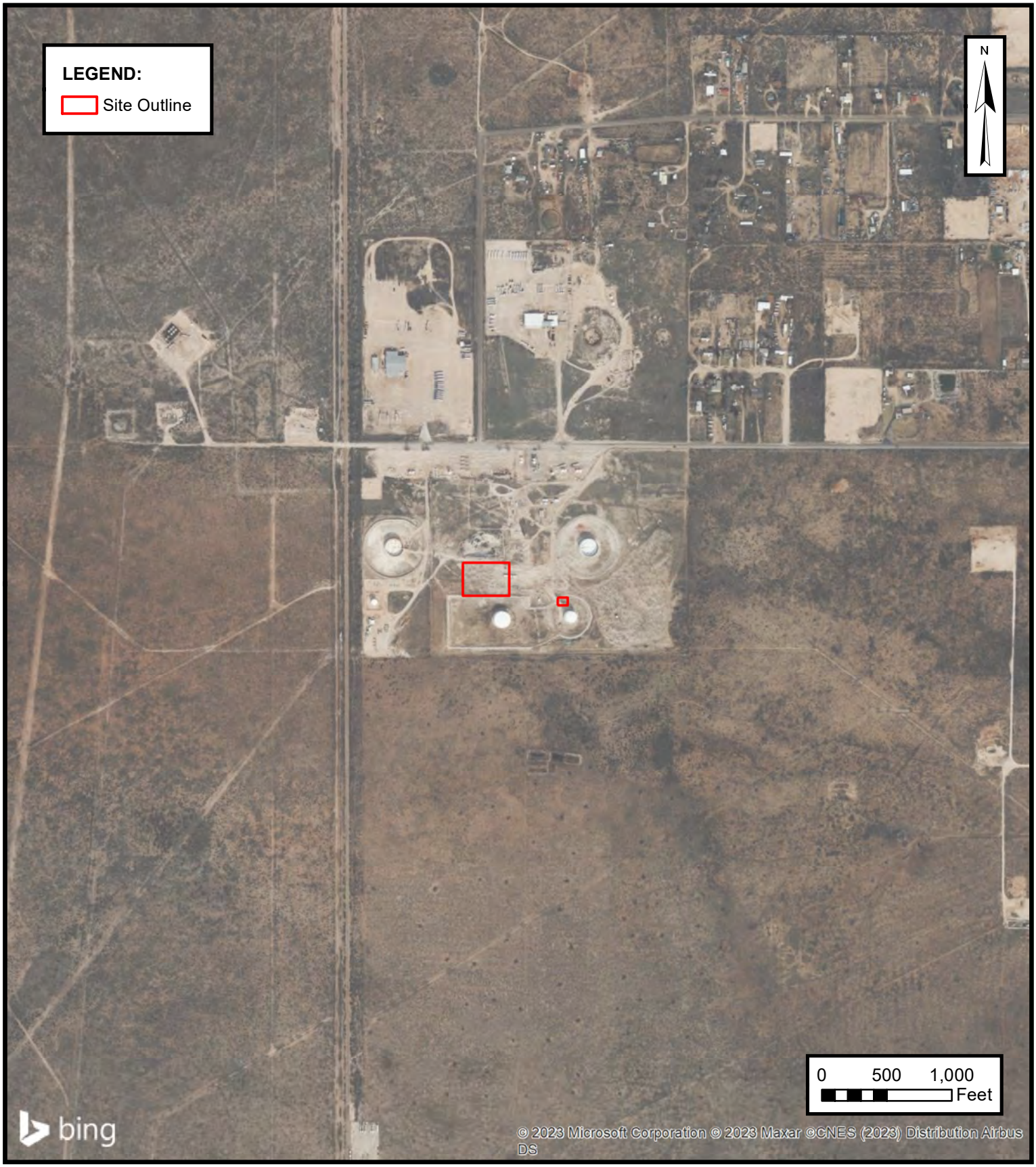
Environmental, Engineering and Hydrogeologic Consultants

TOPOGRAPHIC MAP
ENTERPRISE CRUDE PIPELINE, LLC
TANK LINE 5202 TO BOOSTER (W14-117) & TANK 5604 SUCTION LINE (W14-131) RELEASES
Off County Road 61 (ARCO Road), Hobbs, Lea County, New Mexico
32.650447° N, 103.140181° W

PROJECT NUMBER: 03B1226295

FIGURE
1



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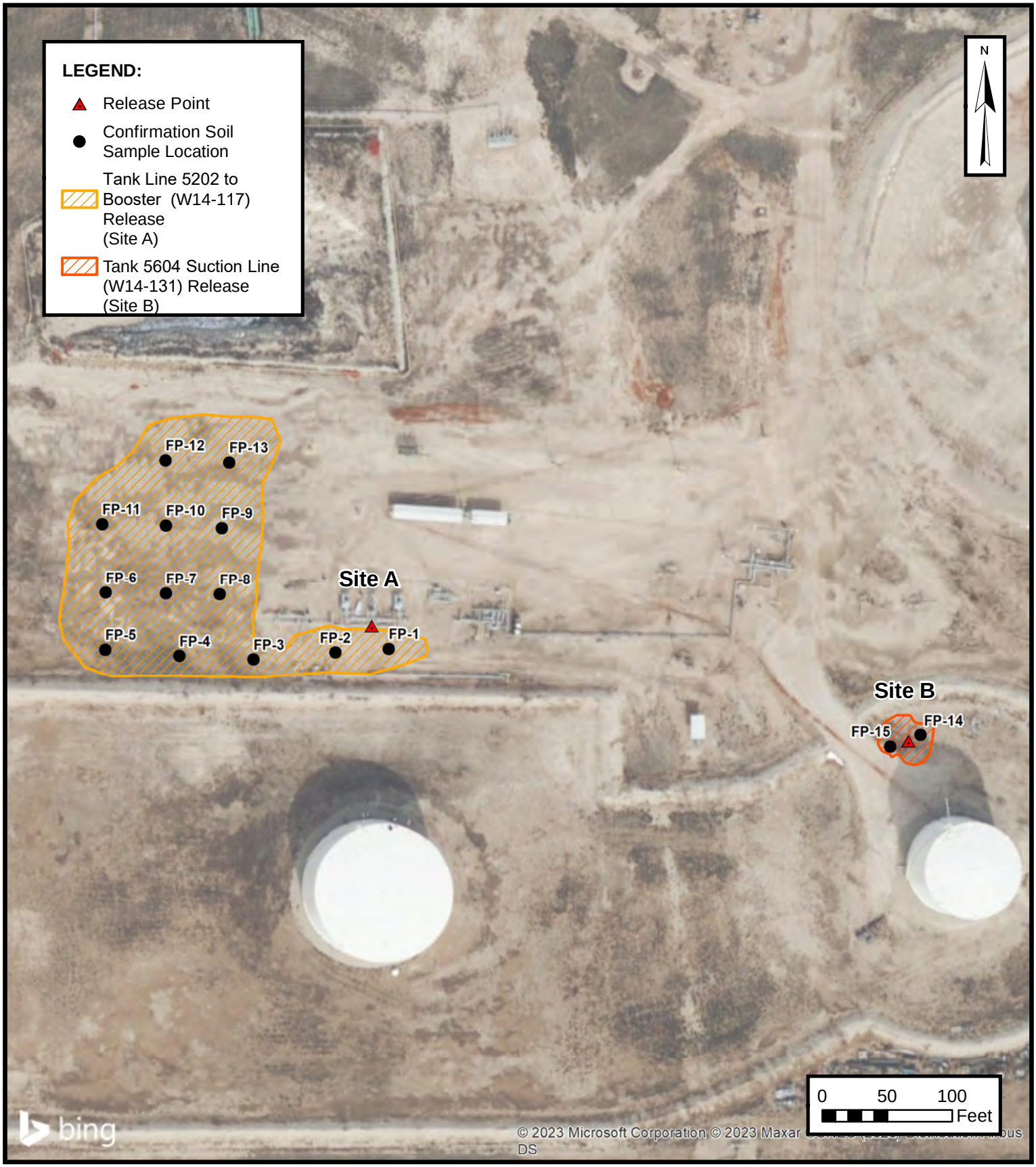
Environmental, Engineering and Hydrogeologic Consultants

SITE VICINITY MAP
ENTERPRISE CRUDE PIPELINE, LLC
TANK LINE 5202 TO BOOSTER (W14-117) & TANK 5604 SUCTION LINE (W14-131) RELEASES
Off County Road 61 (ARCO Road), Hobbs, Lea County, New Mexico
32.650447° N, 103.140181° W

PROJECT NUMBER: 03B1226295

FIGURE
2

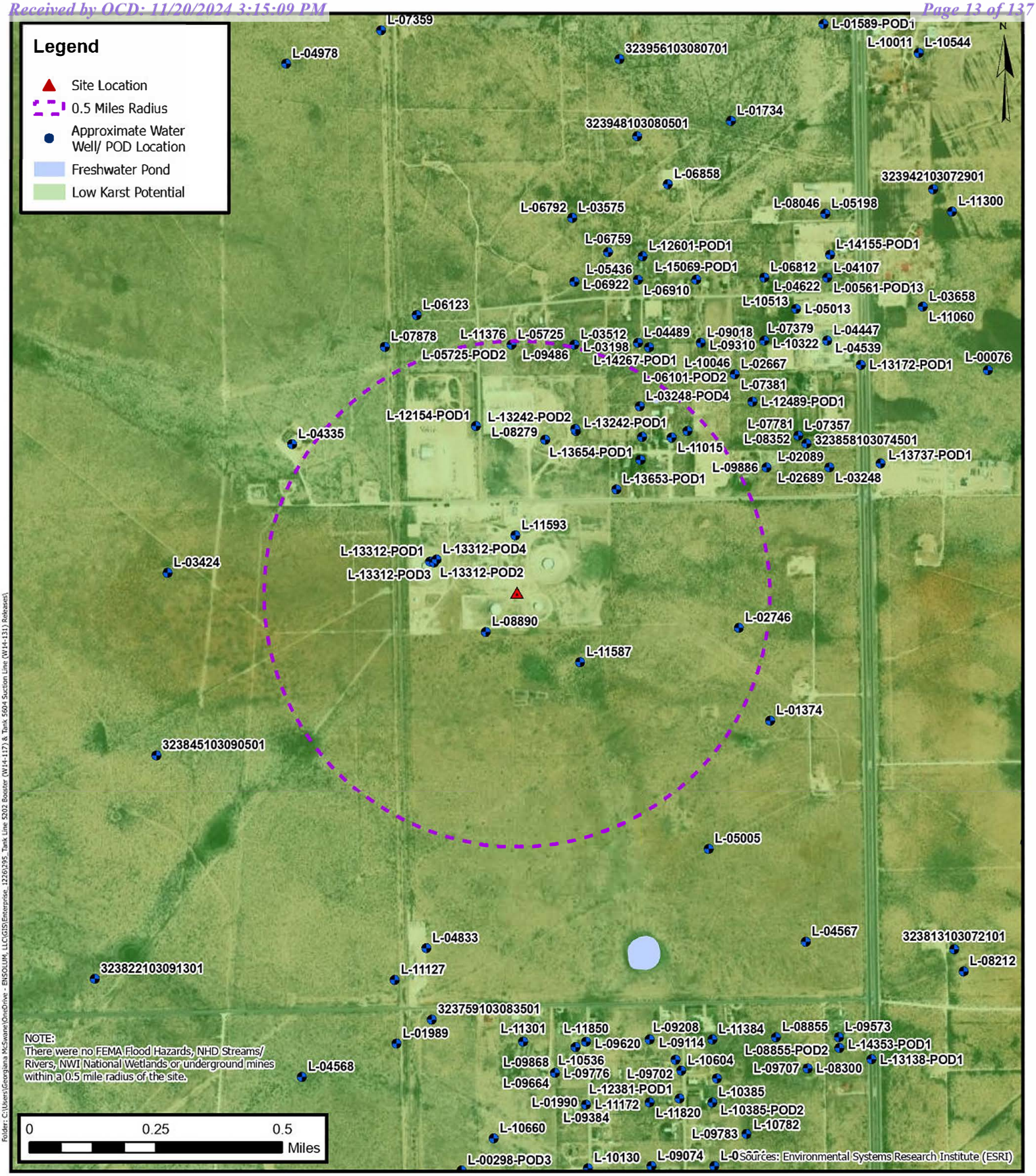


ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

SITE MAP
ENTERPRISE CRUDE PIPELINE, LLC
TANK LINE 5202 TO BOOSTER (W14-117) & TANK 5604 SUCTION LINE (W14-131) RELEASES
Off County Road 61 (ARCO Road), Hobbs, Lea County, New Mexico
32.650447° N, 103.140181° W

PROJECT NUMBER: 03B1226295

FIGURE
3



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CLOSURE CRITERIA MAP
ENTERPRISE CRUDE PIPELINE, LLC
TANK LINE 5202 TO BOOSTER (W14-117) & TANK 5604 SUCTION LINE (W14-131) RELEASES
Off County Road 61 (ARCO Road), Hobbs, Lea County, New Mexico
32.650447° N, 103.140181° W

PROJECT NUMBER: 03B1226295

FIGURE
4

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APPENDIX B

Supporting Documentation

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 13312 **Subbasin:** L **Cross Reference:** -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Agent: CONESTOGA ROVERS AND ASSOC.

Contact: JUSTIN COVEY

Owner: HOLLY ENERGY PARTNERS

Contact: BILL GREEN

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	527088	EXPL	2013-05-02	PMT	LOG	L 13312	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 13312 POD1		Shallow	2	1	1	22	19S	38E	674215	3614161	HOBBS STATION TANK 5201
L 13312 POD2		Shallow	2	1	1	22	19S	38E	674228	3614159	HOBBS STATION TANK 5201
L 13312 POD3		Shallow	2	1	1	22	19S	38E	674228	3614159	HOBBS STATION TANK 5201
L 13312 POD4		Shallow	2	1	1	22	19S	38E	674235	3614168	HOBBS STATION TANK 5201

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 13312 POD1	2	1	1	22	19S	38E	674215	3614161

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN (LD)

Drill Start Date: 06/18/2013 **Drill Finish Date:** 06/22/2013 **Plug Date:**

Log File Date: 08/13/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 4.00 **Depth Well:** 60 feet **Depth Water:** 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	53	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	45	60

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 13312 POD2	2	1	1	22	19S	38E	674228	3614159

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN (LD)

Drill Start Date: 06/18/2013 **Drill Finish Date:** 06/22/2013 **Plug Date:**

Log File Date: 08/13/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 4.00 **Depth Well:** 60 feet **Depth Water:** 45 feet

Water Bearing Stratifications:	Top	Bottom	Description
	51	59	Sandstone/Gravel/Conglomerate
	59	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	60

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 13312 POD3	2	1	1	22	19S	38E	674228	3614159

Driller License:	1456	**Driller Company:**	WHITE DRILLING COMPANY		
Driller Name:	WHITE, JOHN (LD)				
Drill Start Date:	06/18/2013	**Drill Finish Date:**	06/22/2013	**Plug Date:**	
Log File Date:	08/13/2013	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	4.00	**Depth Well:**	60 feet	**Depth Water:**	53 feet

Water Bearing Stratifications:	Top	Bottom	Description
	53	60	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	60

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	L 13312 POD4	2	1	1	22	19S	38E	674235	3614168

Driller License: 1456 **Driller Company:** WHITE DRILLING COMPANY

Driller Name: WHITE, JOHN (LD)

Drill Start Date: 06/19/2013 **Drill Finish Date:** 06/22/2013 **Plug Date:**

Log File Date: 08/13/2013 **PCW Rcv Date:** **Source:** Shallow

Pump Type: **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 4.00 **Depth Well:** 63 feet **Depth Water:** 44 feet

Water Bearing Stratifications:	Top	Bottom	Description
	51	59	Sandstone/Gravel/Conglomerate
	59	63	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	40	60

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 11593 **Subbasin:** L **Cross Reference:** -

Primary Purpose: PUB 72-12-1 CONSTRUCTION OF PUBLIC WORKS

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: TEPPCO CRUDE PIPELINE

Contact: BRUNO SALAZAR

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	493267	72121	2004-02-25	PMT	LOG	L 11593	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 11593		Shallow	1	2	1	22	19S	38E	674486	3614245*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 11593	1	2	1	22	19S	38E	674486	3614245*

Driller License:	1044	**Driller Company:**	EADES WELL DRILLING & PUMP SERVICE		
Driller Name:	EADES, ALAN				
Drill Start Date:	03/18/2004	**Drill Finish Date:**	03/18/2004	**Plug Date:**	
Log File Date:	04/22/2004	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.75	**Depth Well:**	125 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	34	52	Other/Unknown
	56	105	Other/Unknown
	105	118	Other/Unknown

Casing Perforations:	Top	Bottom
	85	125

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 08890 **Subbasin:** L **Cross Reference:** -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: EXP EXPIRED

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: ARCO PIPE LINE COMPANY

Contact: L. E. DONART

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	520521	72121	1982-07-16	EXP	EXP	L 08890	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 08890		Shallow			1	22	19S	38E	674392	3613938*	EUNICE HWY-4.5 MI S OF HOBBS

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

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

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 08890			1	22	19S	38E	674392	3613938*

Driller License:	657	**Driller Company:**	OLDAKER & SONS		
Driller Name:	OLDAKER, GEORGE D.(DECEASED)				
Drill Start Date:	07/15/1982	**Drill Finish Date:**	07/16/1982	**Plug Date:**	
Log File Date:	08/02/1983	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	25 GPM
Casing Size:	7.00	**Depth Well:**	130 feet	**Depth Water:**	130 feet

Water Bearing Stratifications:	Top	Bottom	Description
	38	130	Other/Unknown

Casing Perforations:	Top	Bottom
	110	130

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 11587 **Subbasin:** L **Cross Reference:** -

Primary Purpose: DOM 72-12-1 DOMESTIC ONE HOUSEHOLD

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 3 **Cause/Case:** -

Owner: CINDY YEAROUT

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	493237	72121	2004-02-11	PMT	LOG	L 11587	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 11587		Shallow	2	4	1	22	19S	38E	674692	3613842*	

***An (*) after northing value indicates UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 11587	2	4	1	22	19S	38E	674692	3613842*

Driller License:	1044	**Driller Company:**	EADES WELL DRILLING & PUMP SERVICE		
Driller Name:	EADES, ALAN				
Drill Start Date:	03/05/2004	**Drill Finish Date:**	03/05/2004	**Plug Date:**	
Log File Date:	04/12/2004	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	5.75	**Depth Well:**	136 feet	**Depth Water:**	

Water Bearing Stratifications:	Top	Bottom	Description
	47	72	Other/Unknown
	76	90	Other/Unknown
	118	136	Other/Unknown

Casing Perforations:	Top	Bottom
	96	136

***UTM location was derived from PLSS - see Help**

Kelly Lowery

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Tuesday, May 7, 2024 8:30 AM
To: Kelly Lowery; Enviro, OCD, EMNRD
Cc: Spore, Christopher; Beaux Jennings
Subject: RE: [EXTERNAL] Extension Request for Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809)

[**EXTERNAL EMAIL**]

Kelly,

The 90-day extension requests for nTO1422648223 /nTO1422647809 are approved. Please be advised that this will be the final extension for both incidents. New due date is 8/7/2024.

Please include a copy of this email in the closure reports for nTO1422648223 /nTO1422647809.

Thank you,
Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, May 6, 2024 4:25 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspore@eprod.com>; Beaux Jennings <bjennings@ensolum.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request for Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809)

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

Good afternoon,

On behalf of Enterprise Crude Pipeline, LLC, Ensolum, LLC would like to request a 90-day extension for the Tank Line 5202 to Booster (W14-117) & Tank 5604 Suction Line (W14-131) Releases (Incident ID: nTO1422648223 /nTO1422647809). Excavation activities are currently on-going at the Site, but has been delayed due to scheduling challenges with personnel and contractors. Sampling activities are scheduled for this week at the site and require more time for results and subsequent reporting.

Please let us know if you have any questions.

Thank you,

Kelly Lowery, GIT
Project Geologist
214-733-3165
Ensolum, LLC

Beaux Jennings

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Wednesday, February 7, 2024 8:52 AM
To: Beaux Jennings; Enviro, OCD, EMNRD
Cc: Spore, Christopher
Subject: RE: [EXTERNAL] Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809).

[**EXTERNAL EMAIL**]

Beaux,

The extension requests for nTO1422648223 and nTO1422647809 are approved. The new due date for both incidents is May 7, 2024.

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

Thank you,
Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

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From: Beaux Jennings <bjennings@ensolum.com>
Sent: Tuesday, February 6, 2024 4:19 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Spore, Christopher <caspore@eprod.com>; Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Subject: [EXTERNAL] Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809).

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

Good afternoon,

On behalf of Enterprise Crude Pipeline, LLC, Ensolum, LLC would like to request a 90-day extension for the Tank Line 5202 to Booster (W14-117) & Tank 5604 Suction Line (W14-131) Releases (Incident ID: nTO1422648223 / nTO1422647809). Sampling activities are scheduled for next week at the site and require more time for results and subsequent reporting.

Please let us know if you have any questions.

Thank you,

Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC

Beaux Jennings

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Sent: Thursday, December 28, 2023 4:01 PM
To: Beaux Jennings
Subject: RE: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 250942 and Application ID: 250931
Attachments: 09.12.23 Closure Denial Response - FINAL.pdf

[**EXTERNAL EMAIL**]

Mr. Jennings,

I am sorry it has taken so long for me to get back to you. Please see my responses below in red. Please be advised that this email response is for both Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809).

1. *Closure denied. Per 19.15.29.12.D. (1) "The responsible party must test the remediated areas for contamination with representative five-point composite samples from the walls and base, and individual grab samples from any wet or discolored areas. The samples must be analyzed for the constituents listed in Table I of 19.15.29.12 NMAC or constituents from other applicable remediation standards." Samples were not analyzed for chloride or BTEX.*

   Based on the correspondence received from the OCD for the original closure denials on May 11, 2023 (attached), sampling of BTEX and chloride was not requested and therefore, not conducted. In addition, the original samples at the site all passed for benzene and/or total BTEX. Furthermore, chloride is not a chemical of concern for a spill on a crude oil transportation line. Per Table I of 19.15.29.12 NMAC, sampling for chloride only "applies to releases of produced water or other fluids, which may contain chloride". These are also addressed in the approved procedures set forth in the General Release Notification, Response and Remediation Plan (for Release Sites under NMOCD Jurisdiction), dated March 9, 2015. This document was formally requested and subsequently approved by the OCD in 2015.

   The written approval from the OCD will need to be provided for Enterprise's *General Release Notification, Response and Remediation Plan (for Release Sites under NMOCD Jurisdiction)*. Without the written approval, the OCD will not accept this document as an approved workplan for these 2 releases. The written approval as well as the document will need to be submitted through the OCD Permitting website along with the closure request.

   The closure criteria for the releases were characterized based on the information required in 19.15.29 NMAC effective 8/14/2018 in the reports submitted under Application ID: 250942 (nTO1422648223) and Application ID: 250931 (nTO1422647809). The closure criteria from 19.15.29 NMAC effective 8/14/2018 and site ranking from the 1993 guidance cannot be combined.

   If written approval cannot be provided, the site closure will need to meet the requirements of 19.15.29 NMAC effective 8/14/2018.

   Can you also explain why chloride is not a contaminant of concern for a spill on crude oil transportation line? Without additional information that shows there is no chance produced water is entrained in the fluid stream,

chlorides will need to be ruled out as a contaminant of concern by collecting confirmation soil samples as these releases are historic.

2. *Notification of final/confirmation sampling was not given to the OCD two business days prior to conducting final sampling per 19.15.29.12.D. (1)(a) NMAC.*

Ensolum acknowledges the NMOCD request and will provide proper notification moving forward. However, based on the date of the releases, these two incidents fall under the approved procedures set forth in the General Release Notification, Response and Remediation Plan (for Release Sites under NMOCD Jurisdiction), dated March 9, 2015. Therefore, notification is not required.

If written approval cannot be provided, the site closure will need to meet the requirements of 19.15.29 NMAC effective 8/14/2018. This includes providing the two-business day notification per 19.15.29.12.D.(1)(a) NMAC.

3. *If a work plan was approved prior to the transitional provisions in 19.15.29.16 NMAC, please provide a copy of the work plan in the next submittal to show that work was performed in accordance with the approved plan. If a work plan was not submitted and approved, remediation and closure will need to comply with the current version of 19.15.29 NMAC effective (8/14/2018).*

Attached are the approved procedures set forth in the General Release Notification, Response and Remediation Plan (for Release Sites under NMOCD Jurisdiction), dated March 9, 2015. This document was formally requested and subsequently approved by the OCD in 2015.

The written approval from the OCD will need to be provided for Enterprise's *General Release Notification, Response and Remediation Plan (for Release Sites under NMOCD Jurisdiction)*. Without the written approval, the OCD will not accept this document as an approved workplan for these 2 releases. The written approval as well as the document will need to be submitted through the OCD Permitting website along with the closure request.

4. *Submit a complete report though the OCD Permitting website by 12/12/2023.*

Ensolum acknowledges the NMOCD request. However, it is Enterprise' opinion that no further sampling is required at this Site; therefore, no further reporting should be required.

Please see the above responses.

Thank you,

Brittany Hall ● Environmental Specialist
Environmental Bureau Projects Group
EMNRD - Oil Conservation Division
1000 Rio Brazos Road | Aztec, NM 87110
505.517.5333 | Brittany.Hall@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd/

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-forms/.

Kelly Lowery

From: Spore, Christopher <caspore@eprod.com>
Sent: Monday, May 6, 2024 4:05 PM
To: Kelly Lowery
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 334424
Attachments: Matthew Barker.vcf

[**EXTERNAL EMAIL**]

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, May 6, 2024 4:02 PM
To: Spore, Christopher <caspore@eprod.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 334424

[Use caution with links/attachments]

To whom it may concern (c/o Chris Spore for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1422648223.

The sampling event is expected to take place:

When: 05/09/2024 @ 09:30
Where: B-22-19S-38E Lot: I 1880 FSL 560 FEL (32.650447,-103.14018)

Additional Information: klowery@ensolum.com

Additional Instructions: Within the fenced facility off of Co Rd 61/ W Arco Road

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

Kelly Lowery

From: OCDOnline@state.nm.us
Sent: Monday, June 24, 2024 2:04 PM
To: Spore, Christopher
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 356992

[Use caution with links/attachments]

To whom it may concern (c/o Christopher Spore for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1422647809.

The sampling event is expected to take place:

When: 06/26/2024 @ 15:00
Where: I-33-19S-34E 1880 FSL 560 FEL (32.650249,-103.13895)

Additional Information: Kelly Lowery- klowery@ensolum.com

Additional Instructions: Facility entrance on south side of Arco Road- 32.652939°, -103.137930°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

Kelly Lowery

From: OCDOnline@state.nm.us
Sent: Monday, June 24, 2024 1:52 PM
To: Spore, Christopher
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 356950

[Use caution with links/attachments]

To whom it may concern (c/o Christopher Spore for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1422648223.

The sampling event is expected to take place:

When: 06/26/2024 @ 14:00
Where: B-22-19S-38E Lot: I 1880 FSL 560 FEL (32.650447,-103.14018)

Additional Information: Kelly Lowery- klowery@ensolum.com

Additional Instructions: Facility entrance on south side of Arco Road. 32.652939°, -103.137930°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

Kelly Lowery

From: OCDOnline@state.nm.us
Sent: Wednesday, June 26, 2024 8:31 AM
To: Spore, Christopher
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357599

[Use caution with links/attachments]

To whom it may concern (c/o Christopher Spore for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1422647809.

The sampling event is expected to take place:

When: 06/28/2024 @ 13:00
Where: I-33-19S-34E 1880 FSL 560 FEL (32.650249,-103.13895)

Additional Information: Kelly Lowery- klowery@ensolum.com

Additional Instructions: Facility entrance on south side of Arco Road. 32.652939°, -103.137930°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

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

Kelly Lowery

From: OCDOnline@state.nm.us
Sent: Wednesday, June 26, 2024 8:27 AM
To: Spore, Christopher
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 357587

[Use caution with links/attachments]

To whom it may concern (c/o Christopher Spore for Enterprise Field Services, LLC),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nTO1422648223.

The sampling event is expected to take place:

When: 06/28/2024 @ 12:00
Where: B-22-19S-38E Lot: I 1880 FSL 560 FEL (32.650447,-103.14018)

Additional Information: Kelly Lowery- klowery@ensolum.com

Additional Instructions: Facility entrance on south side of Arco Road. 32.652939°, -103.137930°

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

- **Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.**

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

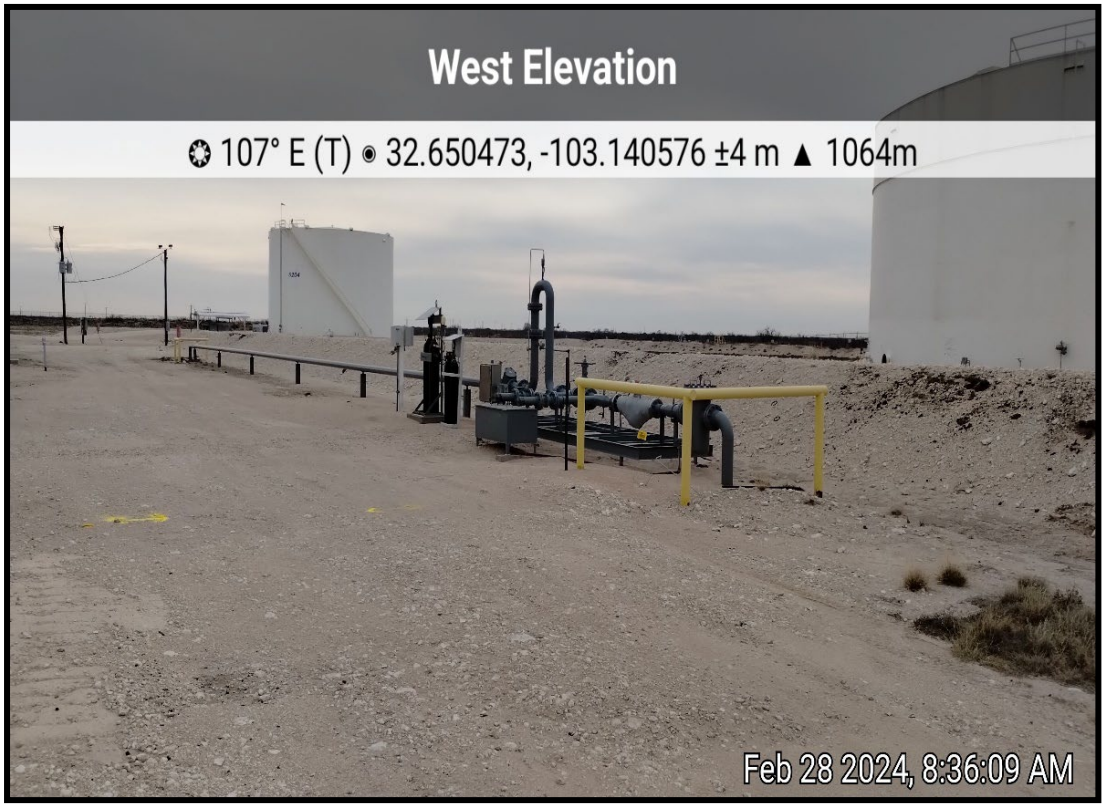
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

ENSOLUM

APPENDIX C

Photographic Documentation

View of historical release extent, facing northwest (02/28/24).



View of historical release extent, facing east (02/28/24).

View of historical release extent during hand auger delineation activities, facing north (05/09/24).

View of historical release extent during hand auger delineation activities, facing north (05/09/24).

View of historical release extent after hydro-excavation delineation activities, facing west (07/15/24).

View of historical release extent after hydro-excavation delineation activities, facing north (07/15/24).

ENSOLUM

APPENDIX D

Table

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Tank Line 5202 to Booster (W14-117) & Tank 5604 Suction Line (W14-131) Releases
Enterprise Crude Pipeline, LLC
Hobbs, Lea County, New Mexico
Ensolum Project No. 03B1226295

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Confirmation Soil Sample Analytical Results												
FP-1	2/28/2024	3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<49.9	**320**	<49.9	**320**	**78.2**
	5/9/2024	3	NS					**25.2 J**	**18.9 J**	<12.5	**44.1 J**	NS
FP-2	2/28/2024	3	<0.00200	<0.00200	<0.00200	<0.00399	<0.00399	<50.3	**94.7**	<50.3	**94.7**	**69.0**
FP-3	2/28/2024	3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.1	**100**	<50.1	**100**	**70.2**
	5/9/2024	3	NS					**40.4 J**	**54.5**	**26.2 J**	**121**	NS
	7/8/2024	3	NS					<11.0	**29.1 J**	<12.5	**29.1 J**	NS
FP-4	2/28/2024	3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.5	**85.9**	<50.5	**85.9**	**42.7**
FP-5	2/28/2024	3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.8	**161**	<49.8	**161**	**64.3**
	5/9/2024	3	NS					**46.0 J**	**131**	**51.3**	**228**	NS
	7/8/2024	3	NS					<11.0	**34.6 J**	<12.5	**34.6 J**	NS
FP-6	2/28/2024	3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**357**	<49.9	**357**	**46.0**
	5/9/2024	3	NS					**43.7 J**	**152**	**53.3**	**249**	NS
	7/8/2024	3	NS					<10.9	**30.4 J**	<12.5	**30.4 J**	NS
FP-7	2/28/2024	3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<50.0	**320**	<50.0	**320**	**46.8**
	5/9/2024	3	NS					**32.6 J**	**207**	**77.6**	**318**	NS
	7/8/2024	3	NS					<10.9	**36.6 J**	<12.5	**36.6 J**	NS
FP-8	2/28/2024	3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<49.8	**271**	<49.8	**271**	**37.7**
	5/9/2024	3	NS					**42.8 J**	**259**	**103**	**405**	NS
	7/8/2024	3	NS					<10.9	**30.5 J**	<12.5	**30.5 J**	NS
FP-9	2/28/2024	3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.1	**312**	<50.1	**312**	**60.8**
	5/9/2024	3	NS					**45.3 J**	**247**	**102**	**394**	NS
	7/8/2024	3	NS					<10.9	**35.6 J**	<12.5	**35.6 J**	NS
FP-10	2/28/2024	3	<0.00202	<0.00202	<0.00202	<0.00404	<0.00404	<50.4	**337**	<50.4	**337**	**69.3**
	5/9/2024	3	NS					**41.5 J**	**221**	**88.0**	**351**	NS
	7/8/2024	3	NS					<11.0	**29.1 J**	<12.5	**29.1 J**	NS
FP-11	2/28/2024	3	<0.00202	<0.00202	<0.00202	<0.00403	<0.00403	<50.5	**280**	<50.5	**280**	**52.0**
	5/9/2024	3	NS					**33.2 J**	**222**	**95.4**	**351**	NS
	7/8/2024	3	NS					<11.0	**78.2 J**	<12.5	**78.2 J**	NS
FP-12	2/28/2024	3	<0.00200	<0.00200	<0.00200	<0.00401	<0.00401	<49.7	**262**	<49.7	**262**	**100**
	5/9/2024	3	NS					**37.6 J**	**252**	**102**	**392**	NS
	7/8/2024	3	NS					<10.9	<14.9	<12.5	<14.9	NS
FP-13	2/28/2024	3	<0.00199	<0.00199	<0.00199	<0.00398	<0.00398	<49.9	**251**	<49.9	**251**	**59.6**
	5/9/2024	3	NS					**38.2 J**	**223**	**93.6**	**355**	NS
	7/8/2024	3	NS					<11.0	**66.5**	<12.5	**66.5**	NS
FP-14	2/28/2024	3	<0.00198	<0.00198	<0.00198	<0.00396	<0.00396	<50.0	<50.0	<50.0	<50.0	**59.9**
FP-15	2/28/2024	3	<0.00201	<0.00201	<0.00201	<0.00402	<0.00402	<50.0	<50.0	<50.0	<50.0	**50.0**

*Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)*

Over Excavated and/or Re-Sampled

bgs: below ground surface

J: The target analyte was positively identified below the quantitation limit and above the detection limit.

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

ENSOLUM

APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 3/6/2024 11:16:17 AM Revision 1

JOB DESCRIPTION

Hobbs Station
Lea County, NM

JOB NUMBER

880-40092-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

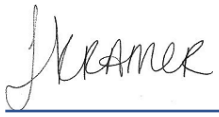
Eurofins Midland

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



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3/6/2024 11:16:17 AM
Revision 1

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

Client: Ensolum
Project/Site: Hobbs Station

Laboratory Job ID: 880-40092-1
SDG: Lea County, NM

Table of Contents

Definitions/Glossary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: Ensolum
Project: Hobbs Station

Job ID: 880-40092-1

Job ID: 880-40092-1 Eurofins Midland

Job Narrative
880-40092-1

REVISION

The report being provided is a revision of the original report sent on 3/5/2024. The report (revision 1) is being revised due to Per client email, requesting report to be ran as Level 2.

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 2/28/2024 5:23 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FP-1 (880-40092-1), FP-2 (880-40092-2), FP-3 (880-40092-3), FP-4 (880-40092-4), FP-5 (880-40092-5), FP-6 (880-40092-6), FP-7 (880-40092-7), FP-8 (880-40092-8), FP-9 (880-40092-9), FP-10 (880-40092-10), FP-11 (880-40092-11), FP-12 (880-40092-12), FP-13 (880-40092-13), FP-14 (880-40092-14) and FP-15 (880-40092-15).

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-74638 and analytical batch 880-74555 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8021B: <The continuing calibration verification (CCV) associated with batch 880-74555 recovered under the lower control limit for Benzene, Toluene, Ethylbenzene, m-Xylene & p-Xylene and o-Xylene. The samples associated with this CCV were ran within 12 hours of passing CCV; therefore, the data have been reported.

Method 8021B: The method blank for preparation batch 880-74561 and 880-74638 and analytical batch 880-74555 contained Benzene above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

GC Semi VOA
Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FP-5 (880-40092-5) and FP-6 (880-40092-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: The method blank for preparation batch 880-74698 and analytical batch 880-74566 contained Gasoline Range Organics (GRO)-C6-C10 above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

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

HPLC/IC
Method 300_ORGFM_28D - Soluble: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-74401 and analytical batch 880-74635 were outside control limits. Sample matrix interference and/or non-homogeneity

Case Narrative

Client: Ensolum Job ID: 880-40092-1
Project: Hobbs Station

Job ID: 880-40092-1 (Continued) Eurofins Midland

are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-1
Date Collected: 02/28/24 08:10
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-1
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:42	1
Toluene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:42	1
Ethylbenzene	<0.00202	U F1	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:42	1
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.00400		mg/Kg		03/04/24 13:12	03/04/24 22:42	1
o-Xylene	<0.00202	U F1 F2	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:42	1
Xylenes, Total	<0.00403	U F1 F2	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*03/04/24 13:12*	*03/04/24 22:42*	*1*
1,4-Difluorobenzene (Surr)	*77*		*70 - 130*	*03/04/24 13:12*	*03/04/24 22:42*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00200		mg/Kg			03/04/24 22:42	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**320**		50.0		mg/Kg			03/04/24 23:55	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	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 23:55	1
Diesel Range Organics (Over C10-C28)	**320**		50.0		mg/Kg		03/04/24 16:01	03/04/24 23:55	1
OII Range Organics (Over C28-C36)	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 23:55	1
Total TPH	**320**		50.0		mg/Kg		03/04/24 16:01	03/04/24 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*116*		*70 - 130*	*03/04/24 16:01*	*03/04/24 23:55*	*1*
o-Terphenyl	*101*		*70 - 130*	*03/04/24 16:01*	*03/04/24 23:55*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**78.2**	**F1**	5.00	0.395	mg/Kg			03/05/24 06:19	1

Client Sample ID: FP-2
Date Collected: 02/28/24 08:15
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-2
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:02	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:02	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00400		mg/Kg		03/04/24 13:12	03/04/24 23:02	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:02	1
Xylenes, Total	<0.00399	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:02	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-2
Date Collected: 02/28/24 08:15
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-2
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/04/24 13:12*	*03/04/24 23:02*	*1*
1,4-Difluorobenzene (Surr)	*69*	*S1-*	*70 - 130*	*03/04/24 13:12*	*03/04/24 23:02*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00200		mg/Kg			03/04/24 23:02	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**94.7**		50.0		mg/Kg			03/05/24 00:16	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	<50.3	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:16	1
Diesel Range Organics (Over C10-C28)	**94.7**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:16	1
Oil Range Organics (Over C28-C36)	<50.3	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:16	1
Total TPH	**94.7**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*125*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:16*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:16*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.0**		5.00	0.395	mg/Kg			03/05/24 06:36	1

Client Sample ID: FP-3
Date Collected: 02/28/24 08:20
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-3
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:23	1
Toluene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:23	1
Ethylbenzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00400		mg/Kg		03/04/24 13:12	03/04/24 23:23	1
o-Xylene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:23	1
Xylenes, Total	<0.00396	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*03/04/24 13:12*	*03/04/24 23:23*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/04/24 13:12*	*03/04/24 23:23*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00200		mg/Kg			03/04/24 23:23	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-3

Date Collected: 02/28/24 08:20
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-3

Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**100**		50.0		mg/Kg			03/05/24 00:37	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	<50.1	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:37	1
Diesel Range Organics (Over C10-C28)	**100**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:37	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:37	1
Total TPH	**100**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:37*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:37*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**70.2**		5.00	0.395	mg/Kg			03/05/24 06:42	1

Client Sample ID: FP-4

Date Collected: 02/28/24 08:25
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-4

Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:43	1
Toluene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:43	1
Ethylbenzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:43	1
m-Xylene & p-Xylene	<0.00402	U	0.00400		mg/Kg		03/04/24 13:12	03/04/24 23:43	1
o-Xylene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:43	1
Xylenes, Total	<0.00402	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 23:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*70 - 130*	*03/04/24 13:12*	*03/04/24 23:43*	*1*
1,4-Difluorobenzene (Surr)	*86*		*70 - 130*	*03/04/24 13:12*	*03/04/24 23:43*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00200		mg/Kg			03/04/24 23:43	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.9**		50.0		mg/Kg			03/05/24 00:58	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	<50.5	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:58	1
Diesel Range Organics (Over C10-C28)	**85.9**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:58	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 00:58	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-4

Date Collected: 02/28/24 08:25
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-4
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**85.9**		50.0		mg/Kg		03/04/24 16:01	03/05/24 00:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*126*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:58*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/04/24 16:01*	*03/05/24 00:58*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.7**		5.00	0.395	mg/Kg			03/05/24 06:48	1

Client Sample ID: FP-5

Date Collected: 02/28/24 08:30
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-5
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:04	1
m-Xylene & p-Xylene	<0.00401	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 00:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:04	1
Xylenes, Total	<0.00401	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:04*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:04*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00200		mg/Kg			03/05/24 00:04	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**161**		50.0		mg/Kg			03/05/24 01:19	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	<49.8	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 01:19	1
Diesel Range Organics (Over C10-C28)	**161**		50.0		mg/Kg		03/04/24 16:01	03/05/24 01:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 01:19	1
Total TPH	**161**		50.0		mg/Kg		03/04/24 16:01	03/05/24 01:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*133*	*S1+*	*70 - 130*	*03/04/24 16:01*	*03/05/24 01:19*	*1*
o-Terphenyl	*118*		*70 - 130*	*03/04/24 16:01*	*03/05/24 01:19*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-5

Date Collected: 02/28/24 08:30
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-5
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**64.3**		5.00	0.395	mg/Kg			03/05/24 06:54	1

Client Sample ID: FP-6

Date Collected: 02/28/24 08:35
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-6
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:24	1
Toluene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:24	1
Ethylbenzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 00:24	1
o-Xylene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:24	1
Xylenes, Total	<0.00398	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:24*	*1*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:24*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00200		mg/Kg			03/05/24 00:24	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**357**		50.0		mg/Kg			03/05/24 02:01	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	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:01	1
Diesel Range Organics (Over C10-C28)	**357**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:01	1
Oil Range Organics (Over C28-C36)	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:01	1
Total TPH	**357**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*132*	*S1+*	*70 - 130*	*03/04/24 16:01*	*03/05/24 02:01*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/04/24 16:01*	*03/05/24 02:01*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.0**		5.00	0.395	mg/Kg			03/05/24 07:11	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-7
Date Collected: 02/28/24 08:40
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-7
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:44	1
Toluene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:44	1
Ethylbenzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 00:44	1
o-Xylene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:44	1
Xylenes, Total	<0.00398	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 00:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:44*	*1*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*03/04/24 13:12*	*03/05/24 00:44*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00200		mg/Kg			03/05/24 00:44	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**320**		50.0		mg/Kg			03/05/24 02:22	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	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:22	1
Diesel Range Organics (Over C10-C28)	**320**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:22	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:22	1
Total TPH	**320**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*03/04/24 16:01*	*03/05/24 02:22*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/04/24 16:01*	*03/05/24 02:22*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**46.8**		5.00	0.395	mg/Kg			03/05/24 07:17	1

Client Sample ID: FP-8
Date Collected: 02/28/24 08:45
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-8
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:05	1
Toluene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:05	1
Ethylbenzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:05	1
m-Xylene & p-Xylene	<0.00396	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 01:05	1
o-Xylene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:05	1
Xylenes, Total	<0.00396	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:05	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-8
Date Collected: 02/28/24 08:45
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-8
Matrix: Solid

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:05*	*1*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:05*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00200		mg/Kg			03/05/24 01:05	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**271**		50.0		mg/Kg			03/05/24 02:43	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	<49.8	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:43	1
Diesel Range Organics (Over C10-C28)	**271**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 02:43	1
Total TPH	**271**		50.0		mg/Kg		03/04/24 16:01	03/05/24 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*121*		*70 - 130*	*03/04/24 16:01*	*03/05/24 02:43*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/04/24 16:01*	*03/05/24 02:43*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**37.7**		5.00	0.395	mg/Kg			03/05/24 07:23	1

Client Sample ID: FP-9
Date Collected: 02/28/24 08:50
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-9
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:25	1
Toluene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:25	1
Ethylbenzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:25	1
m-Xylene & p-Xylene	<0.00402	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 01:25	1
o-Xylene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:25	1
Xylenes, Total	<0.00402	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:25*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:25*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00200		mg/Kg			03/05/24 01:25	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-9
Date Collected: 02/28/24 08:50
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-9
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**312**		50.0		mg/Kg			03/05/24 03:05	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	<50.1	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:05	1
Diesel Range Organics (Over C10-C28)	**312**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:05	1
Oil Range Organics (Over C28-C36)	<50.1	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:05	1
Total TPH	**312**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:05*	*1*
o-Terphenyl	*104*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:05*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**60.8**		5.00	0.395	mg/Kg			03/05/24 07:29	1

Client Sample ID: FP-10
Date Collected: 02/28/24 08:55
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-10
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:46	1
Toluene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:46	1
Ethylbenzene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 01:46	1
o-Xylene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:46	1
Xylenes, Total	<0.00404	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 01:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:46*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*03/04/24 13:12*	*03/05/24 01:46*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00200		mg/Kg			03/05/24 01:46	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**337**		50.0		mg/Kg			03/05/24 03:26	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	<50.4	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:26	1
Diesel Range Organics (Over C10-C28)	**337**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:26	1
Oil Range Organics (Over C28-C36)	<50.4	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:26	1

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Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-10

Lab Sample ID: 880-40092-10
Matrix: Solid
Date Collected: 02/28/24 08:55
Date Received: 02/28/24 17:23
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**337**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*122*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:26*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:26*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69.3**		5.00	0.395	mg/Kg			03/05/24 07:35	1

Client Sample ID: FP-11

Lab Sample ID: 880-40092-11
Matrix: Solid
Date Collected: 02/28/24 09:00
Date Received: 02/28/24 17:23
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:08	1
Toluene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:08	1
Ethylbenzene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 03:08	1
o-Xylene	<0.00202	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:08	1
Xylenes, Total	<0.00403	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:08*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:08*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00200		mg/Kg			03/05/24 03:08	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**280**		50.0		mg/Kg			03/05/24 03:47	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	<50.5	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:47	1
Diesel Range Organics (Over C10-C28)	**280**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:47	1
Oil Range Organics (Over C28-C36)	<50.5	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 03:47	1
Total TPH	**280**		50.0		mg/Kg		03/04/24 16:01	03/05/24 03:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*125*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:47*	*1*
o-Terphenyl	*110*		*70 - 130*	*03/04/24 16:01*	*03/05/24 03:47*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-11
Date Collected: 02/28/24 09:00
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-11
Matrix: Solid

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**52.0**		5.00	0.395	mg/Kg			03/05/24 07:41	1

Client Sample ID: FP-12
Date Collected: 02/28/24 09:05
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-12
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:29	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:29	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:29	1
m-Xylene & p-Xylene	<0.00401	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 03:29	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:29	1
Xylenes, Total	<0.00401	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:29*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:29*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00200		mg/Kg			03/05/24 03:29	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**262**		50.0		mg/Kg			03/05/24 04:08	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	<49.7	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:08	1
Diesel Range Organics (Over C10-C28)	**262**		50.0		mg/Kg		03/04/24 16:01	03/05/24 04:08	1
Oil Range Organics (Over C28-C36)	<49.7	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:08	1
Total TPH	**262**		50.0		mg/Kg		03/04/24 16:01	03/05/24 04:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*03/04/24 16:01*	*03/05/24 04:08*	*1*
o-Terphenyl	*112*		*70 - 130*	*03/04/24 16:01*	*03/05/24 04:08*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		5.00	0.395	mg/Kg			03/05/24 07:58	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-13
Date Collected: 02/28/24 09:10
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-13
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:49	1
Toluene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:49	1
Ethylbenzene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 03:49	1
o-Xylene	<0.00199	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:49	1
Xylenes, Total	<0.00398	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 03:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:49*	*1*
1,4-Difluorobenzene (Surr)	*85*		*70 - 130*	*03/04/24 13:12*	*03/05/24 03:49*	*1*

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00200		mg/Kg			03/05/24 03:49	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**251**		50.0		mg/Kg			03/05/24 04:29	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	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:29	1
Diesel Range Organics (Over C10-C28)	**251**		50.0		mg/Kg		03/04/24 16:01	03/05/24 04:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:29	1
Total TPH	**251**		50.0		mg/Kg		03/04/24 16:01	03/05/24 04:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/04/24 16:01*	*03/05/24 04:29*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/04/24 16:01*	*03/05/24 04:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.6**		5.00	0.395	mg/Kg			03/05/24 08:04	1

Client Sample ID: FP-14
Date Collected: 02/28/24 09:15
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-14
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:09	1
Toluene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:09	1
Ethylbenzene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:09	1
m-Xylene & p-Xylene	<0.00396	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 04:09	1
o-Xylene	<0.00198	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:09	1
Xylenes, Total	<0.00396	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:09	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-14

Lab Sample ID: 880-40092-14
Matrix: Solid
Date Collected: 02/28/24 09:15
Date Received: 02/28/24 17:23
Sample Depth: 3'

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		70 - 130	03/04/24 13:12	03/05/24 04:09	1
1,4-Difluorobenzene (Surr)	85		70 - 130	03/04/24 13:12	03/05/24 04:09	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00200		mg/Kg			03/05/24 04:09	1

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/24 04:50	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	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:50	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 04:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130	03/04/24 16:01	03/05/24 04:50	1
o-Terphenyl	107		70 - 130	03/04/24 16:01	03/05/24 04:50	1

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.9**		5.00	0.395	mg/Kg			03/05/24 08:22	1

Client Sample ID: FP-15

Lab Sample ID: 880-40092-15
Matrix: Solid
Date Collected: 02/28/24 09:20
Date Received: 02/28/24 17:23
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:30	1
Toluene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:30	1
Ethylbenzene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:30	1
m-Xylene & p-Xylene	<0.00402	U	0.00400		mg/Kg		03/04/24 13:12	03/05/24 04:30	1
o-Xylene	<0.00201	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:30	1
Xylenes, Total	<0.00402	U	0.00200		mg/Kg		03/04/24 13:12	03/05/24 04:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130	03/04/24 13:12	03/05/24 04:30	1
1,4-Difluorobenzene (Surr)	79		70 - 130	03/04/24 13:12	03/05/24 04:30	1

Method: TAL SOP Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00200		mg/Kg			03/05/24 04:30	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-15
Date Collected: 02/28/24 09:20
Date Received: 02/28/24 17:23
Sample Depth: 3'

Lab Sample ID: 880-40092-15
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/05/24 05:12	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	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 05:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 05:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 05:12	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/05/24 05:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*124*		*70 - 130*	*03/04/24 16:01*	*03/05/24 05:12*	*1*
o-Terphenyl	*114*		*70 - 130*	*03/04/24 16:01*	*03/05/24 05:12*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**50.0**		5.00	0.395	mg/Kg			03/05/24 08:28	1

Surrogate Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea 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 (70-130)	DFBZ1 (70-130)
880-40092-1	FP-1	91	77
880-40092-1 MS	FP-1	102	103
880-40092-1 MSD	FP-1	122	105
880-40092-2	FP-2	84	69 S1-
880-40092-3	FP-3	97	79
880-40092-4	FP-4	81	86
880-40092-5	FP-5	92	76
880-40092-6	FP-6	88	80
880-40092-7	FP-7	85	83
880-40092-8	FP-8	111	87
880-40092-9	FP-9	102	81
880-40092-10	FP-10	98	79
880-40092-11	FP-11	98	85
880-40092-12	FP-12	85	81
880-40092-13	FP-13	84	85
880-40092-14	FP-14	83	85
880-40092-15	FP-15	96	79
LCS 880-74638/1-A	Lab Control Sample	123	91
LCSD 880-74638/2-A	Lab Control Sample Dup	121	90
MB 880-74561/5-A	Method Blank	74	93
MB 880-74638/5-A	Method Blank	78	82

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-40092-1	FP-1	116	101
880-40092-2	FP-2	125	114
880-40092-3	FP-3	125	110
880-40092-4	FP-4	126	111
880-40092-5	FP-5	133 S1+	118
880-40092-6	FP-6	132 S1+	114
880-40092-7	FP-7	114	102
880-40092-8	FP-8	121	108
880-40092-9	FP-9	117	104
880-40092-10	FP-10	122	106
880-40092-11	FP-11	125	110
880-40092-12	FP-12	127	112
880-40092-13	FP-13	119	103
880-40092-14	FP-14	124	107
880-40092-15	FP-15	124	114
LCS 880-74698/2-A	Lab Control Sample	87	74
LCSD 880-74698/3-A	Lab Control Sample Dup	86	74
MB 880-74698/1-A	Method Blank	106	97

Surrogate Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-74561/5-A
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74561

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 08:53	03/04/24 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1
Xylenes, Total	<0.00400	U	0.00200		mg/Kg		03/04/24 08:53	03/04/24 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*74*		*70 - 130*	*03/04/24 08:53*	*03/04/24 11:16*	*1*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*	*03/04/24 08:53*	*03/04/24 11:16*	*1*

Lab Sample ID: MB 880-74638/5-A
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74638

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/04/24 13:12	03/04/24 22:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:20	1
Xylenes, Total	<0.00400	U	0.00200		mg/Kg		03/04/24 13:12	03/04/24 22:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*78*		*70 - 130*	*03/04/24 13:12*	*03/04/24 22:20*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*03/04/24 13:12*	*03/04/24 22:20*	*1*

Lab Sample ID: LCS 880-74638/1-A
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74638

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.07320		mg/Kg		73	70 - 130
Toluene	0.100	0.08160		mg/Kg		82	70 - 130
Ethylbenzene	0.100	0.1165		mg/Kg		116	70 - 130
m-Xylene & p-Xylene	0.200	0.2234		mg/Kg		112	70 - 130
o-Xylene	0.100	0.1163		mg/Kg		116	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 880-74638/2-A
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74638

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08105		mg/Kg		81	70 - 130	10	35

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

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

Lab Sample ID: LCSD 880-74638/2-A
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74638

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.1024		mg/Kg		102	70 - 130	23	35
Ethylbenzene			0.100	0.1247		mg/Kg		125	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2430		mg/Kg		122	70 - 130	8	35
o-Xylene			0.100	0.1246		mg/Kg		125	70 - 130	7	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: 880-40092-1 MS
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: FP-1
Prep Type: Total/NA
Prep Batch: 74638

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00202	U	0.0996	0.07209		mg/Kg		72	70 - 130
Toluene	<0.00202	U	0.0996	0.07065		mg/Kg		71	70 - 130
Ethylbenzene	<0.00202	U F1	0.0996	0.06467	F1	mg/Kg		65	70 - 130
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.199	0.1169	F1	mg/Kg		58	70 - 130
o-Xylene	<0.00202	U F1 F2	0.0996	0.05891	F1	mg/Kg		59	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-40092-1 MSD
Matrix: Solid
Analysis Batch: 74555

Client Sample ID: FP-1
Prep Type: Total/NA
Prep Batch: 74638

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.101	0.07742		mg/Kg		76	70 - 130	7	35
Toluene	<0.00202	U	0.101	0.07646		mg/Kg		76	70 - 130	8	35
Ethylbenzene	<0.00202	U F1	0.101	0.07659		mg/Kg		76	70 - 130	17	35
m-Xylene & p-Xylene	<0.00403	U F1 F2	0.202	0.1755	F2	mg/Kg		87	70 - 130	40	35
o-Xylene	<0.00202	U F1 F2	0.101	0.08630	F2	mg/Kg		86	70 - 130	38	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

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

Lab Sample ID: MB 880-74698/1-A
Matrix: Solid
Analysis Batch: 74566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74698

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 20:25	1

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

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

Lab Sample ID: MB 880-74698/1-A
Matrix: Solid
Analysis Batch: 74566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 74698

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 20:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 20:25	1
Total TPH	<50.0	U	50.0		mg/Kg		03/04/24 16:01	03/04/24 20:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/04/24 16:01*	*03/04/24 20:25*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/04/24 16:01*	*03/04/24 20:25*	*1*

Lab Sample ID: LCS 880-74698/2-A
Matrix: Solid
Analysis Batch: 74566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 74698

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	799.9		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1065		mg/Kg		107	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*87*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: LCSD 880-74698/3-A
Matrix: Solid
Analysis Batch: 74566

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 74698

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	765.3		mg/Kg		77	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	1000	1057		mg/Kg		106	70 - 130	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-74401/1-A
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.395	U	5.00	0.395	mg/Kg			03/05/24 06:01	1

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-74401/2-A
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	234.2		mg/Kg		94	90 - 110

Lab Sample ID: LCSD 880-74401/3-A
Matrix: Solid
Analysis Batch: 74635

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	237.5		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 880-40092-1 MS
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: FP-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	78.2	F1	253	303.1	F1	mg/Kg		89	90 - 110

Lab Sample ID: 880-40092-1 MSD
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: FP-1
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	78.2	F1	253	302.4	F1	mg/Kg		89	90 - 110	0	20

Lab Sample ID: 880-40092-11 MS
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: FP-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	52.0		248	293.0		mg/Kg		97	90 - 110

Lab Sample ID: 880-40092-11 MSD
Matrix: Solid
Analysis Batch: 74635

Client Sample ID: FP-11
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	52.0		250	295.7		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 74555

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	8021B	74638
880-40092-2	FP-2	Total/NA	Solid	8021B	74638
880-40092-3	FP-3	Total/NA	Solid	8021B	74638
880-40092-4	FP-4	Total/NA	Solid	8021B	74638
880-40092-5	FP-5	Total/NA	Solid	8021B	74638
880-40092-6	FP-6	Total/NA	Solid	8021B	74638
880-40092-7	FP-7	Total/NA	Solid	8021B	74638
880-40092-8	FP-8	Total/NA	Solid	8021B	74638
880-40092-9	FP-9	Total/NA	Solid	8021B	74638
880-40092-10	FP-10	Total/NA	Solid	8021B	74638
880-40092-11	FP-11	Total/NA	Solid	8021B	74638
880-40092-12	FP-12	Total/NA	Solid	8021B	74638
880-40092-13	FP-13	Total/NA	Solid	8021B	74638
880-40092-14	FP-14	Total/NA	Solid	8021B	74638
880-40092-15	FP-15	Total/NA	Solid	8021B	74638
MB 880-74561/5-A	Method Blank	Total/NA	Solid	8021B	74561
MB 880-74638/5-A	Method Blank	Total/NA	Solid	8021B	74638
LCS 880-74638/1-A	Lab Control Sample	Total/NA	Solid	8021B	74638
LCSD 880-74638/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	74638
880-40092-1 MS	FP-1	Total/NA	Solid	8021B	74638
880-40092-1 MSD	FP-1	Total/NA	Solid	8021B	74638

Prep Batch: 74561

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-74561/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 74638

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	5035	
880-40092-2	FP-2	Total/NA	Solid	5035	
880-40092-3	FP-3	Total/NA	Solid	5035	
880-40092-4	FP-4	Total/NA	Solid	5035	
880-40092-5	FP-5	Total/NA	Solid	5035	
880-40092-6	FP-6	Total/NA	Solid	5035	
880-40092-7	FP-7	Total/NA	Solid	5035	
880-40092-8	FP-8	Total/NA	Solid	5035	
880-40092-9	FP-9	Total/NA	Solid	5035	
880-40092-10	FP-10	Total/NA	Solid	5035	
880-40092-11	FP-11	Total/NA	Solid	5035	
880-40092-12	FP-12	Total/NA	Solid	5035	
880-40092-13	FP-13	Total/NA	Solid	5035	
880-40092-14	FP-14	Total/NA	Solid	5035	
880-40092-15	FP-15	Total/NA	Solid	5035	
MB 880-74638/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-74638/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-74638/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-40092-1 MS	FP-1	Total/NA	Solid	5035	
880-40092-1 MSD	FP-1	Total/NA	Solid	5035	

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

GC VOA

Analysis Batch: 74757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	Total BTEX	
880-40092-2	FP-2	Total/NA	Solid	Total BTEX	
880-40092-3	FP-3	Total/NA	Solid	Total BTEX	
880-40092-4	FP-4	Total/NA	Solid	Total BTEX	
880-40092-5	FP-5	Total/NA	Solid	Total BTEX	
880-40092-6	FP-6	Total/NA	Solid	Total BTEX	
880-40092-7	FP-7	Total/NA	Solid	Total BTEX	
880-40092-8	FP-8	Total/NA	Solid	Total BTEX	
880-40092-9	FP-9	Total/NA	Solid	Total BTEX	
880-40092-10	FP-10	Total/NA	Solid	Total BTEX	
880-40092-11	FP-11	Total/NA	Solid	Total BTEX	
880-40092-12	FP-12	Total/NA	Solid	Total BTEX	
880-40092-13	FP-13	Total/NA	Solid	Total BTEX	
880-40092-14	FP-14	Total/NA	Solid	Total BTEX	
880-40092-15	FP-15	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 74566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	8015B NM	74698
880-40092-2	FP-2	Total/NA	Solid	8015B NM	74698
880-40092-3	FP-3	Total/NA	Solid	8015B NM	74698
880-40092-4	FP-4	Total/NA	Solid	8015B NM	74698
880-40092-5	FP-5	Total/NA	Solid	8015B NM	74698
880-40092-6	FP-6	Total/NA	Solid	8015B NM	74698
880-40092-7	FP-7	Total/NA	Solid	8015B NM	74698
880-40092-8	FP-8	Total/NA	Solid	8015B NM	74698
880-40092-9	FP-9	Total/NA	Solid	8015B NM	74698
880-40092-10	FP-10	Total/NA	Solid	8015B NM	74698
880-40092-11	FP-11	Total/NA	Solid	8015B NM	74698
880-40092-12	FP-12	Total/NA	Solid	8015B NM	74698
880-40092-13	FP-13	Total/NA	Solid	8015B NM	74698
880-40092-14	FP-14	Total/NA	Solid	8015B NM	74698
880-40092-15	FP-15	Total/NA	Solid	8015B NM	74698
MB 880-74698/1-A	Method Blank	Total/NA	Solid	8015B NM	74698
LCS 880-74698/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	74698
LCSD 880-74698/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	74698

Prep Batch: 74698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	8015NM Prep	
880-40092-2	FP-2	Total/NA	Solid	8015NM Prep	
880-40092-3	FP-3	Total/NA	Solid	8015NM Prep	
880-40092-4	FP-4	Total/NA	Solid	8015NM Prep	
880-40092-5	FP-5	Total/NA	Solid	8015NM Prep	
880-40092-6	FP-6	Total/NA	Solid	8015NM Prep	
880-40092-7	FP-7	Total/NA	Solid	8015NM Prep	
880-40092-8	FP-8	Total/NA	Solid	8015NM Prep	
880-40092-9	FP-9	Total/NA	Solid	8015NM Prep	
880-40092-10	FP-10	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

GC Semi VOA (Continued)

Prep Batch: 74698 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-11	FP-11	Total/NA	Solid	8015NM Prep	
880-40092-12	FP-12	Total/NA	Solid	8015NM Prep	
880-40092-13	FP-13	Total/NA	Solid	8015NM Prep	
880-40092-14	FP-14	Total/NA	Solid	8015NM Prep	
880-40092-15	FP-15	Total/NA	Solid	8015NM Prep	
MB 880-74698/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-74698/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-74698/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 74782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Total/NA	Solid	8015 NM	
880-40092-2	FP-2	Total/NA	Solid	8015 NM	
880-40092-3	FP-3	Total/NA	Solid	8015 NM	
880-40092-4	FP-4	Total/NA	Solid	8015 NM	
880-40092-5	FP-5	Total/NA	Solid	8015 NM	
880-40092-6	FP-6	Total/NA	Solid	8015 NM	
880-40092-7	FP-7	Total/NA	Solid	8015 NM	
880-40092-8	FP-8	Total/NA	Solid	8015 NM	
880-40092-9	FP-9	Total/NA	Solid	8015 NM	
880-40092-10	FP-10	Total/NA	Solid	8015 NM	
880-40092-11	FP-11	Total/NA	Solid	8015 NM	
880-40092-12	FP-12	Total/NA	Solid	8015 NM	
880-40092-13	FP-13	Total/NA	Solid	8015 NM	
880-40092-14	FP-14	Total/NA	Solid	8015 NM	
880-40092-15	FP-15	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 74401

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Soluble	Solid	DI Leach	
880-40092-2	FP-2	Soluble	Solid	DI Leach	
880-40092-3	FP-3	Soluble	Solid	DI Leach	
880-40092-4	FP-4	Soluble	Solid	DI Leach	
880-40092-5	FP-5	Soluble	Solid	DI Leach	
880-40092-6	FP-6	Soluble	Solid	DI Leach	
880-40092-7	FP-7	Soluble	Solid	DI Leach	
880-40092-8	FP-8	Soluble	Solid	DI Leach	
880-40092-9	FP-9	Soluble	Solid	DI Leach	
880-40092-10	FP-10	Soluble	Solid	DI Leach	
880-40092-11	FP-11	Soluble	Solid	DI Leach	
880-40092-12	FP-12	Soluble	Solid	DI Leach	
880-40092-13	FP-13	Soluble	Solid	DI Leach	
880-40092-14	FP-14	Soluble	Solid	DI Leach	
880-40092-15	FP-15	Soluble	Solid	DI Leach	
MB 880-74401/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-74401/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-74401/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-40092-1 MS	FP-1	Soluble	Solid	DI Leach	
880-40092-1 MSD	FP-1	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

HPLC/IC (Continued)

Leach Batch: 74401 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-11 MS	FP-11	Soluble	Solid	DI Leach	
880-40092-11 MSD	FP-11	Soluble	Solid	DI Leach	

Analysis Batch: 74635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-40092-1	FP-1	Soluble	Solid	300.0	74401
880-40092-2	FP-2	Soluble	Solid	300.0	74401
880-40092-3	FP-3	Soluble	Solid	300.0	74401
880-40092-4	FP-4	Soluble	Solid	300.0	74401
880-40092-5	FP-5	Soluble	Solid	300.0	74401
880-40092-6	FP-6	Soluble	Solid	300.0	74401
880-40092-7	FP-7	Soluble	Solid	300.0	74401
880-40092-8	FP-8	Soluble	Solid	300.0	74401
880-40092-9	FP-9	Soluble	Solid	300.0	74401
880-40092-10	FP-10	Soluble	Solid	300.0	74401
880-40092-11	FP-11	Soluble	Solid	300.0	74401
880-40092-12	FP-12	Soluble	Solid	300.0	74401
880-40092-13	FP-13	Soluble	Solid	300.0	74401
880-40092-14	FP-14	Soluble	Solid	300.0	74401
880-40092-15	FP-15	Soluble	Solid	300.0	74401
MB 880-74401/1-A	Method Blank	Soluble	Solid	300.0	74401
LCS 880-74401/2-A	Lab Control Sample	Soluble	Solid	300.0	74401
LCSD 880-74401/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	74401
880-40092-1 MS	FP-1	Soluble	Solid	300.0	74401
880-40092-1 MSD	FP-1	Soluble	Solid	300.0	74401
880-40092-11 MS	FP-11	Soluble	Solid	300.0	74401
880-40092-11 MSD	FP-11	Soluble	Solid	300.0	74401

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-1
Date Collected: 02/28/24 08:10
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/04/24 22:42
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/04/24 22:42
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/04/24 23:55
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/04/24 23:55
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 06:19

Client Sample ID: FP-2
Date Collected: 02/28/24 08:15
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/04/24 23:02
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/04/24 23:02
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 00:16
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 00:16
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 06:36

Client Sample ID: FP-3
Date Collected: 02/28/24 08:20
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/04/24 23:23
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/04/24 23:23
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 00:37
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 00:37
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 06:42

Client Sample ID: FP-4
Date Collected: 02/28/24 08:25
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/04/24 23:43
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/04/24 23:43

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-4
Date Collected: 02/28/24 08:25
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 00:58
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 00:58
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 06:48

Client Sample ID: FP-5
Date Collected: 02/28/24 08:30
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 00:04
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 00:04
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 01:19
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 01:19
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 06:54

Client Sample ID: FP-6
Date Collected: 02/28/24 08:35
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 00:24
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 00:24
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 02:01
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 02:01
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:11

Client Sample ID: FP-7
Date Collected: 02/28/24 08:40
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 00:44
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 00:44
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 02:22
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 02:22

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-7
Date Collected: 02/28/24 08:40
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:17

Client Sample ID: FP-8
Date Collected: 02/28/24 08:45
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 01:05
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 01:05
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 02:43
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 02:43
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:23

Client Sample ID: FP-9
Date Collected: 02/28/24 08:50
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 01:25
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 01:25
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 03:05
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 03:05
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:29

Client Sample ID: FP-10
Date Collected: 02/28/24 08:55
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 01:46
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 01:46
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 03:26
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 03:26
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:35

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-11
Date Collected: 02/28/24 09:00
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 03:08
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 03:08
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 03:47
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 03:47
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:41

Client Sample ID: FP-12
Date Collected: 02/28/24 09:05
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 03:29
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 03:29
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 04:08
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 04:08
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 07:58

Client Sample ID: FP-13
Date Collected: 02/28/24 09:10
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 03:49
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 03:49
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 04:29
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 04:29
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 08:04

Client Sample ID: FP-14
Date Collected: 02/28/24 09:15
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 04:09
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 04:09

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Client Sample ID: FP-14
Date Collected: 02/28/24 09:15
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 04:50
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 04:50
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 08:22

Client Sample ID: FP-15
Date Collected: 02/28/24 09:20
Date Received: 02/28/24 17:23

Lab Sample ID: 880-40092-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5035			74638	EL	EET MID	03/04/24 13:12
Total/NA	Analysis	8021B		1	74555	MNR	EET MID	03/05/24 04:30
Total/NA	Analysis	Total BTEX		1	74757	SM	EET MID	03/05/24 04:30
Total/NA	Analysis	8015 NM		1	74782	SM	EET MID	03/05/24 05:12
Total/NA	Prep	8015NM Prep			74698	TKC	EET MID	03/04/24 16:01
Total/NA	Analysis	8015B NM		1	74566	AJ	EET MID	03/05/24 05:12
Soluble	Leach	DI Leach			74401	SMC	EET MID	02/29/24 15:51
Soluble	Analysis	300.0		1	74635	CH	EET MID	03/05/24 08:28

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-40092-1
SDG: Lea 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	T104704400-23-26	06-30-24

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: Hobbs Station

Job ID: 880-40092-1
SDG: Lea 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: Hobbs Station

Job ID: 880-40092-1
SDG: Lea County, NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-40092-1	FP-1	Solid	02/28/24 08:10	02/28/24 17:23	3'
880-40092-2	FP-2	Solid	02/28/24 08:15	02/28/24 17:23	3'
880-40092-3	FP-3	Solid	02/28/24 08:20	02/28/24 17:23	3'
880-40092-4	FP-4	Solid	02/28/24 08:25	02/28/24 17:23	3'
880-40092-5	FP-5	Solid	02/28/24 08:30	02/28/24 17:23	3'
880-40092-6	FP-6	Solid	02/28/24 08:35	02/28/24 17:23	3'
880-40092-7	FP-7	Solid	02/28/24 08:40	02/28/24 17:23	3'
880-40092-8	FP-8	Solid	02/28/24 08:45	02/28/24 17:23	3'
880-40092-9	FP-9	Solid	02/28/24 08:50	02/28/24 17:23	3'
880-40092-10	FP-10	Solid	02/28/24 08:55	02/28/24 17:23	3'
880-40092-11	FP-11	Solid	02/28/24 09:00	02/28/24 17:23	3'
880-40092-12	FP-12	Solid	02/28/24 09:05	02/28/24 17:23	3'
880-40092-13	FP-13	Solid	02/28/24 09:10	02/28/24 17:23	3'
880-40092-14	FP-14	Solid	02/28/24 09:15	02/28/24 17:23	3'
880-40092-15	FP-15	Solid	02/28/24 09:20	02/28/24 17:23	3'

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Chain of Custody

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

W

880-40092 Chain of Custody

Project Manager:	Elly Lowery	Bill to: (if different)	
Company Name:	Elysium, LLC	Company Name:	
Address:	601 N Marienfeld St. Ste. 400	Address:	
City, State ZIP:	Midland, TX, 79701	City, State ZIP:	
Phone	214-733-3165	Email:	Elower@elysium.com

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

Project Name:	Hobbs Station	Turn Around	
Project Number:	03B1226295	☒ Routine ☐ Rush	
Project Location:	Lea County, NM	Due Date:	
Sampler's Name:	Noah Baker/Tabitha Guadian	TAT starts the day received by the lab, if received by 4:30pm	
PO #:	03B1226295		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	IR8
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	+.02
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	1.8
Total Containers:		Corrected Temperature:	2.0

ANALYSIS REQUEST

Preservative Codes

None NO — DI Water H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: BTEX 8021B	TPH 8015M	Chloride 300.0	Sample Comments
FP-1	S	2/28/24	0810	3'	C	1		X	X	X	
FP-2	S	2/28/24	0815	3'	C	1		X	X	X	
FP-3	S	2/28/24	0820	3'	C	1		X	X	X	
FP-4	S	2/28/24	0825	3'	C	1		X	X	X	
FP-5	S	2/28/24	0830	3'	C	1		X	X	X	
FP-6	S	2/28/24	0835	3'	C	1		X	X	X	
FP-7	S	2/28/24	0840	3'	C	1		X	X	X	
FP-8	S	2/28/24	0845	3'	C	1		X	X	X	
FP-9	S	2/28/24	0850	3'	C	1		X	X	X	
FP10	S	2/28/24	0855	3'	C	1		X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			2/28/24 1400	2	Jose Tovar	1733 2-28
3				4		
5				6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

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

Loc: 880
Work Order No: **40092**

www.xenco.com

Project Manager:	Kelly Lowery	Bill to: (if different)	
Company Name:	Ensolum LLC	Company Name:	
Address:	601 N. Marienfeld St, Ste. 400	Address:	
City, State ZIP:	Midland, Texas, 79701	City, State ZIP:	
Phone	214-733-5165	Email:	klowery@ensolum.com

Work Order Comments

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

Project Name:	Hobbs Skeleton	Turn Around	☒ Routine ☐ Rush
Project Number:	03B1226295	Due Date:	
Project Location	Lea County NM		
Sampler's Name:	Noah Dukes/Tubsine Guardian	TAT starts the day received by the lab, if received by 4:30pm	
PO #	03B1226295		

SAMPLE RECEIPT	Temp Blank:	Yes (No)	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No		Thermometer ID:	IRB
Cooler Custody Seals:	Yes No (N/A)		Correction Factor:	+.02
Sample Custody Seals:	Yes No (N/A)		Temperature Reading:	1.8
Total Containers:			Corrected Temperature:	2.0

ANALYSIS REQUEST — Parameters: BTEX 8021B; TPH 8015M; Chloride 300.0

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont	BTEX 8021B	TPH 8015M	Chloride 300.0	Sample Comments
FP-11	S	2/28/24	0900	3'	C	1	X	X	X	
FP-12	S	2/28/24	0905	3'	C	1	X	X	X	
FP-13	S	2/28/24	0910	3'	C	1	X	X	X	
FP-14	S	2/28/24	0915	3'	C	1	X	X	X	
FP-15	S	2/28/24	0920	3'	C	1	X	X	X	

Preservative Codes

None NO — DI Water: H_2O
Cool Cool — MeOH Me
HCL HC — HNO_3 HN
H_2SO_4 H_2 — NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 [signature]	[signature]	2/28/24 1400	2 [signature]	Jose Tovar	1723 2-29
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-40092-1
SDG Number: Lea County, NM

Login Number: 40092
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 5/13/2024 2:10:20 PM

JOB DESCRIPTION

Historical Release- Hobbs Station
Lea County

JOB NUMBER

880-43346-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

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
5/13/2024 2:10:20 PM

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

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-43346-1
Project/Site: Historical Release- Hobbs Station SDG: Lea County

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.
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 Job ID: 880-43346-1
Project: Historical Release- Hobbs Station

Job ID: 880-43346-1 Eurofins Midland

Job Narrative
880-43346-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 5/10/2024 1:24 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.1°C.

GC Semi VOA
Method 8015MOD_NM: The surrogate recovery for the blank associated with preparation batch 880-80493 and analytical batch 880-80525 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: FP-6 (880-43346-4), FP-12 (880-43346-10) and FP-13 (880-43346-11). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The method blank for preparation batch 880-80493 and analytical batch 880-80525 contained Gasoline Range Organics (GRO)-C6-C10 and Diesel Range Organics (Over C10-C28) above the method detection limit. This target analyte concentration was less than the reporting limit (RL) in the method blank; therefore, re-extraction and/or re-analysis of samples was not performed.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-80493 and analytical batch 880-80525 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-80525 recovered below the lower control limit for Diesel Range Organics (Over C10-C28). An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-80525/47).

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

Client Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-1

Lab Sample ID: 880-43346-1
Matrix: Solid
Date Collected: 05/09/24 11:41
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	44.1	J	50.0	15.0	mg/Kg			05/12/24 02:55	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	25.2	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 02:55	1
Diesel Range Organics (Over C10-C28)	18.9	J B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 02:55	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 02:55	1
Total TPH	44.1	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 02:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*05/10/24 15:10*	*05/12/24 02:55*	*1*
o-Terphenyl	*112*		*70 - 130*	*05/10/24 15:10*	*05/12/24 02:55*	*1*

Client Sample ID: FP-3

Lab Sample ID: 880-43346-2
Matrix: Solid
Date Collected: 05/09/24 11:50
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	121		50.0	15.0	mg/Kg			05/12/24 03:16	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	40.4	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:16	1
Diesel Range Organics (Over C10-C28)	54.5	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 03:16	1
Oil Range Organics (Over C28-C36)	26.2	J	50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 03:16	1
Total TPH	121	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*05/10/24 15:10*	*05/12/24 03:16*	*1*
o-Terphenyl	*108*		*70 - 130*	*05/10/24 15:10*	*05/12/24 03:16*	*1*

Client Sample ID: FP-5

Lab Sample ID: 880-43346-3
Matrix: Solid
Date Collected: 05/09/24 12:04
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	228		50.0	15.0	mg/Kg			05/12/24 03:34	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	46.0	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:34	1

Client Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-5
Date Collected: 05/09/24 12:04
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-3
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)	131	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 03:34	1
Oil Range Organics (Over C28-C36)	51.3		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 03:34	1
Total TPH	228	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*05/10/24 15:10*	*05/12/24 03:34*	*1*
o-Terphenyl	*116*		*70 - 130*	*05/10/24 15:10*	*05/12/24 03:34*	*1*

Client Sample ID: FP-6
Date Collected: 05/09/24 12:11
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-4
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	249		50.0	15.0	mg/Kg			05/12/24 03:53	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	43.7	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:53	1
Diesel Range Organics (Over C10-C28)	152	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 03:53	1
Oil Range Organics (Over C28-C36)	53.3		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 03:53	1
Total TPH	249	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 03:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*114*		*70 - 130*	*05/10/24 15:10*	*05/12/24 03:53*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*05/10/24 15:10*	*05/12/24 03:53*	*1*

Client Sample ID: FP-7
Date Collected: 05/09/24 12:19
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-5
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	318		50.0	15.0	mg/Kg			05/12/24 04:14	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	32.9	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:14	1
Diesel Range Organics (Over C10-C28)	207	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 04:14	1
Oil Range Organics (Over C28-C36)	77.6		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 04:14	1
Total TPH	318	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:14	1

Client Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-7
Date Collected: 05/09/24 12:19
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-5
Matrix: Solid

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	05/10/24 15:10	05/12/24 04:14	1
o-Terphenyl	99		70 - 130	05/10/24 15:10	05/12/24 04:14	1

Client Sample ID: FP-8
Date Collected: 05/09/24 12:36
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-6
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	405		50.0	15.0	mg/Kg			05/12/24 04:33	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	42.8	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:33	1
Diesel Range Organics (Over C10-C28)	259	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 04:33	1
Oil Range Organics (Over C28-C36)	103		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 04:33	1
Total TPH	405	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	05/10/24 15:10	05/12/24 04:33	1
o-Terphenyl	121		70 - 130	05/10/24 15:10	05/12/24 04:33	1

Client Sample ID: FP-9
Date Collected: 05/09/24 13:19
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-7
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	394		50.0	15.0	mg/Kg			05/12/24 04:52	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	45.3	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:52	1
Diesel Range Organics (Over C10-C28)	247	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 04:52	1
Oil Range Organics (Over C28-C36)	102		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 04:52	1
Total TPH	394	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 04:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	109		70 - 130	05/10/24 15:10	05/12/24 04:52	1
o-Terphenyl	120		70 - 130	05/10/24 15:10	05/12/24 04:52	1

Client Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-10

Lab Sample ID: 880-43346-8
Matrix: Solid
Date Collected: 05/09/24 13:10
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	351		50.0	15.0	mg/Kg			05/12/24 05:11	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	41.5	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 05:11	1
Diesel Range Organics (Over C10-C28)	221	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 05:11	1
Oil Range Organics (Over C28-C36)	88.0		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 05:11	1
Total TPH	351	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 05:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/10/24 15:10*	*05/12/24 05:11*	*1*
o-Terphenyl	*118*		*70 - 130*	*05/10/24 15:10*	*05/12/24 05:11*	*1*

Client Sample ID: FP-11

Lab Sample ID: 880-43346-9
Matrix: Solid
Date Collected: 05/09/24 13:25
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	351		50.0	15.0	mg/Kg			05/12/24 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	33.2	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 05:31	1
Diesel Range Organics (Over C10-C28)	222	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 05:31	1
Oil Range Organics (Over C28-C36)	95.4		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 05:31	1
Total TPH	351	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 05:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*94*		*70 - 130*	*05/10/24 15:10*	*05/12/24 05:31*	*1*
o-Terphenyl	*102*		*70 - 130*	*05/10/24 15:10*	*05/12/24 05:31*	*1*

Client Sample ID: FP-12

Lab Sample ID: 880-43346-10
Matrix: Solid
Date Collected: 05/09/24 12:30
Date Received: 05/10/24 13:24
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	392		50.0	15.0	mg/Kg			05/12/24 06:09	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	37.6	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 06:09	1

Eurofins Midland

Client Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-12
Date Collected: 05/09/24 12:30
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-10
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)	252	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 06:09	1
Oil Range Organics (Over C28-C36)	102		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 06:09	1
Total TPH	392	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 06:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*05/10/24 15:10*	*05/12/24 06:09*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*05/10/24 15:10*	*05/12/24 06:09*	*1*

Client Sample ID: FP-13
Date Collected: 05/09/24 13:33
Date Received: 05/10/24 13:24
Sample Depth: 3'

Lab Sample ID: 880-43346-11
Matrix: Solid

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	355		50.0	15.0	mg/Kg			05/12/24 06:29	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	38.2	J B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 06:29	1
Diesel Range Organics (Over C10-C28)	223	B	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 06:29	1
Oil Range Organics (Over C28-C36)	93.6		50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 06:29	1
Total TPH	355	B	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 06:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/10/24 15:10*	*05/12/24 06:29*	*1*
o-Terphenyl	*133*	*S1+*	*70 - 130*	*05/10/24 15:10*	*05/12/24 06:29*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-43346-1	FP-1	90	112										
880-43346-2	FP-3	93	108										
880-43346-3	FP-5	99	116										
880-43346-4	FP-6	114	133 S1+										
880-43346-5	FP-7	89	99										
880-43346-6	FP-8	106	121										
880-43346-7	FP-9	109	120										
880-43346-8	FP-10	106	118										
880-43346-9	FP-11	94	102										
880-43346-10	FP-12	123	139 S1+										
880-43346-11	FP-13	117	133 S1+										
LCS 880-80493/2-A	Lab Control Sample	91	93										
LCSD 880-80493/3-A	Lab Control Sample Dup	92	93										
MB 880-80493/1-A	Method Blank	117	141 S1+										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

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

Lab Sample ID: MB 880-80493/1-A
Matrix: Solid
Analysis Batch: 80525

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 80493

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	20.36	J	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 01:00	1
Diesel Range Organics (Over C10-C28)	17.86	J	50.0	15.0	mg/Kg		05/10/24 15:10	05/12/24 01:00	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		05/10/24 15:10	05/12/24 01:00	1
Total TPH	38.22	J	50.0	11.0	mg/Kg		05/10/24 15:10	05/12/24 01:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*05/10/24 15:10*	*05/12/24 01:00*	*1*
o-Terphenyl	*141*	*S1+*	*70 - 130*	*05/10/24 15:10*	*05/12/24 01:00*	*1*

Lab Sample ID: LCS 880-80493/2-A
Matrix: Solid
Analysis Batch: 80525

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 80493

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	854.7		mg/Kg		85	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	949.4		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*91*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

Lab Sample ID: LCSD 880-80493/3-A
Matrix: Solid
Analysis Batch: 80525

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 80493

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	858.8		mg/Kg		86	70 - 130	0	20
Diesel Range Organics (Over C10-C28)			1000	977.8		mg/Kg		98	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*92*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

GC Semi VOA

Prep Batch: 80493

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43346-1	FP-1	Total/NA	Solid	8015NM Prep	
880-43346-2	FP-3	Total/NA	Solid	8015NM Prep	
880-43346-3	FP-5	Total/NA	Solid	8015NM Prep	
880-43346-4	FP-6	Total/NA	Solid	8015NM Prep	
880-43346-5	FP-7	Total/NA	Solid	8015NM Prep	
880-43346-6	FP-8	Total/NA	Solid	8015NM Prep	
880-43346-7	FP-9	Total/NA	Solid	8015NM Prep	
880-43346-8	FP-10	Total/NA	Solid	8015NM Prep	
880-43346-9	FP-11	Total/NA	Solid	8015NM Prep	
880-43346-10	FP-12	Total/NA	Solid	8015NM Prep	
880-43346-11	FP-13	Total/NA	Solid	8015NM Prep	
MB 880-80493/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-80493/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-80493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 80525

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43346-1	FP-1	Total/NA	Solid	8015B NM	80493
880-43346-2	FP-3	Total/NA	Solid	8015B NM	80493
880-43346-3	FP-5	Total/NA	Solid	8015B NM	80493
880-43346-4	FP-6	Total/NA	Solid	8015B NM	80493
880-43346-5	FP-7	Total/NA	Solid	8015B NM	80493
880-43346-6	FP-8	Total/NA	Solid	8015B NM	80493
880-43346-7	FP-9	Total/NA	Solid	8015B NM	80493
880-43346-8	FP-10	Total/NA	Solid	8015B NM	80493
880-43346-9	FP-11	Total/NA	Solid	8015B NM	80493
880-43346-10	FP-12	Total/NA	Solid	8015B NM	80493
880-43346-11	FP-13	Total/NA	Solid	8015B NM	80493
MB 880-80493/1-A	Method Blank	Total/NA	Solid	8015B NM	80493
LCS 880-80493/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	80493
LCSD 880-80493/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	80493

Analysis Batch: 80585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-43346-1	FP-1	Total/NA	Solid	8015 NM	
880-43346-2	FP-3	Total/NA	Solid	8015 NM	
880-43346-3	FP-5	Total/NA	Solid	8015 NM	
880-43346-4	FP-6	Total/NA	Solid	8015 NM	
880-43346-5	FP-7	Total/NA	Solid	8015 NM	
880-43346-6	FP-8	Total/NA	Solid	8015 NM	
880-43346-7	FP-9	Total/NA	Solid	8015 NM	
880-43346-8	FP-10	Total/NA	Solid	8015 NM	
880-43346-9	FP-11	Total/NA	Solid	8015 NM	
880-43346-10	FP-12	Total/NA	Solid	8015 NM	
880-43346-11	FP-13	Total/NA	Solid	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-1
Date Collected: 05/09/24 11:41
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 02:55
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 02:55

Client Sample ID: FP-3
Date Collected: 05/09/24 11:50
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 03:16
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 03:16

Client Sample ID: FP-5
Date Collected: 05/09/24 12:04
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 03:34
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 03:34

Client Sample ID: FP-6
Date Collected: 05/09/24 12:11
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 03:53
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 03:53

Client Sample ID: FP-7
Date Collected: 05/09/24 12:19
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 04:14
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 04:14

Client Sample ID: FP-8
Date Collected: 05/09/24 12:36
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 04:33

Lab Chronicle

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-8
Date Collected: 05/09/24 12:36
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 04:33

Client Sample ID: FP-9
Date Collected: 05/09/24 13:19
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 04:52
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 04:52

Client Sample ID: FP-10
Date Collected: 05/09/24 13:10
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 05:11
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 05:11

Client Sample ID: FP-11
Date Collected: 05/09/24 13:25
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 05:31
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 05:31

Client Sample ID: FP-12
Date Collected: 05/09/24 12:30
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 06:09
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 06:09

Client Sample ID: FP-13
Date Collected: 05/09/24 13:33
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	80585	SM	EET MID	05/12/24 06:29

Lab Chronicle

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Client Sample ID: FP-13
Date Collected: 05/09/24 13:33
Date Received: 05/10/24 13:24

Lab Sample ID: 880-43346-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8015NM Prep			80493	EL	EET MID	05/10/24 15:10
Total/NA	Analysis	8015B NM		1	80525	SM	EET MID	05/12/24 06:29

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

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	T104704400-23-26	06-30-24

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

Method Summary

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Historical Release- Hobbs Station

Job ID: 880-43346-1
SDG: Lea County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-43346-1	FP-1	Solid	05/09/24 11:41	05/10/24 13:24	3'
880-43346-2	FP-3	Solid	05/09/24 11:50	05/10/24 13:24	3'
880-43346-3	FP-5	Solid	05/09/24 12:04	05/10/24 13:24	3'
880-43346-4	FP-6	Solid	05/09/24 12:11	05/10/24 13:24	3'
880-43346-5	FP-7	Solid	05/09/24 12:19	05/10/24 13:24	3'
880-43346-6	FP-8	Solid	05/09/24 12:36	05/10/24 13:24	3'
880-43346-7	FP-9	Solid	05/09/24 13:19	05/10/24 13:24	3'
880-43346-8	FP-10	Solid	05/09/24 13:10	05/10/24 13:24	3'
880-43346-9	FP-11	Solid	05/09/24 13:25	05/10/24 13:24	3'
880-43346-10	FP-12	Solid	05/09/24 12:30	05/10/24 13:24	3'
880-43346-11	FP-13	Solid	05/09/24 13:33	05/10/24 13:24	3'

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Chain of Custody

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

Work O

880-43346 Chain of Custody

www.xenco.com Page 1 of 2

Project Manager:	Kelly Lowery	Bill to (if different)	
Company Name:	Ensolum	Company Name.	
Address:	3122 National Parks Hwy	Address.	
City, State ZIP.	Carlsbad, NM 88220	City, State ZIP:	
Phone	214-733-3165	Email	klowery@ensolum.com

Work Order Comments

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

Project Name.	Historical Releases - Hobbs	Turn Around	
Project Number:	03B1276295 Stat100	☒ Routine ☐ Rush	
Project Location.	Lea County	Due Date:	
Sampler's Name	Kaoru Shimada	TAT starts the day received by the lab if received by 4 30pm	
PO #:	03B1276295		

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	Yes (No)	
Samples Received Intact:	Yes No	Thermometer ID	IR4	
Cooler Custody Seals.	Yes No (N/A)	Correction Factor:	0	
Sample Custody Seals	Yes No (N/A)	Temperature Reading.	3.2	
Total Containers:		Corrected Temperature.	3.2	

Preservative Codes

None NO DI Water H_2O
Cool Cool MeOH Me
HCL HC HNO_3 HN
H_2SO_4 H_2 NaOH Na
H_3PO_4 HP
$NaHSO_4$ NABIS
$Na_2S_2O_3$ $NaSO_3$
Zn Acetate+NaOH Zn
NaOH+Ascorbic Acid SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (4500)	TPH (8015M)	BTEX (8021)	Sample Comments
FP-1	Soil	5/9/24	1141	3'	C	1			X		Incident ID
FP-3			1150			1					
FP-5			1204			1					
FP-6			1211			1					Cost Center
FP-7			1219			1					
FP-8			1236			1					AFE
FP-9			1319			1					
FP-10			1310			1					
FP-11			1325			1					
FP-12	Soil	5/9/24	1330	3'	C	1			X		

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1		5/10/24 0630	2		5/10/24 1324
3			4		
5			6		

Revised Date: 08/25/2020 Rev 2020.2

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Chain of Custody

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

Work Order No: 433416

www.xenco.com Page 2 of 2

Project Manager:	Kelly Lowery	Bill to (if different)	
Company Name.	Ensolum	Company Name.	
Address:	3122 National Parks Hwy	Address.	
City, State ZIP	Carlsbad, NM 88220	City, State ZIP	
Phone:	214-733-3165	Email.	klowery@ensolum.com

Work Order Comments

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

Project Name.	Historical Releases - Hobbs	Turn Around	
Project Number:	03B1226295 Station	☒ Routine ☐ Rush	
Project Location:	Lea County	Due Date	
Sampler's Name.	Kaoru Shimada	TAT starts the day received by the lab if received by 4 30pm	
PO #:	03B1226295		

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

Preservative Codes

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	CHLORIDES (4500)	TPH (8015M)	BTEX (8021)
FP-13	Soil	5/9/24	1333	3'	C	1			X	

Parameters

ANALYSIS REQUEST

Sample Comments
Incident ID
Cost Center
AFE

SK May 9, 2024

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245 1 / 7470 / 7471

	Relinquished by. (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1			5/10/24 0650	2		5/10/24 1324
3				4		
5				6		

Revised Date: 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-43346-1
SDG Number: Lea County

Login Number: 43346
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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	

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 7/11/2024 3:49:55 PM

JOB DESCRIPTION

Hobbs Station
Hobbs NM

JOB NUMBER

880-45665-1

Eurofins Midland
1211 W. Florida Ave
Midland TX 79701

See page two for job notes and contact information.

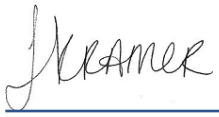
Eurofins Midland

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



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7/11/2024 3:49:55 PM

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

Client: Ensolum
Project/Site: Hobbs Station

Laboratory Job ID: 880-45665-1
SDG: Hobbs NM

Table of Contents

Definitions/Glossary

Client: Ensolum Job ID: 880-45665-1
Project/Site: Hobbs Station SDG: Hobbs NM

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1-	Surrogate recovery exceeds control limits, low biased.
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: Hobbs Station

Job ID: 880-45665-1

Job ID: 880-45665-1 Eurofins Midland

Job Narrative
880-45665-1

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 are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample 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 7/8/2024 1:49 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.2°C.

Receipt Exceptions
The following samples were received and analyzed from an unpreserved bulk soil jar: FP-3 (880-45665-1), FP-5 (880-45665-2), FP-6 (880-45665-3), FP-7 (880-45665-4), FP-8 (880-45665-5), FP-9 (880-45665-6), FP-10 (880-45665-7), FP-11 (880-45665-8), FP-12 (880-45665-9) and FP-13 (880-45665-10).

Diesel Range Organics
Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (880-45665-A-9-B MS). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85175 and analytical batch 880-85277 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-85268 and analytical batch 880-85236 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8015MOD_NM: The continuing calibration verification (CCV) associated with batch 880-85277 recovered below the lower control limit for Gasoline Range Organics (GRO)-C6-C10. An acceptable CCV was ran within the 12 hour window, therefore the data has been qualified and reported. The associated sample is impacted: (CCV 880-85277/47).

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

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-3

Lab Sample ID: 880-45665-1
Matrix: Solid
Date Collected: 07/08/24 09:45
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**29.1**	**J**	50.0	15.0	mg/Kg			07/10/24 16:11	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	<11.0	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:11	1
Diesel Range Organics (Over C10-C28)	**29.1**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 16:11	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 16:11	1
Total TPH	**29.1**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:11	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:11*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:11*	*1*

Client Sample ID: FP-5

Lab Sample ID: 880-45665-2
Matrix: Solid
Date Collected: 07/08/24 09:50
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**34.6**	**J**	50.0	15.0	mg/Kg			07/10/24 16:31	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	<11.0	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:31	1
Diesel Range Organics (Over C10-C28)	**34.6**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 16:31	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 16:31	1
Total TPH	**34.6**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:31	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:31*	*1*
o-Terphenyl	*94*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:31*	*1*

Client Sample ID: FP-6

Lab Sample ID: 880-45665-3
Matrix: Solid
Date Collected: 07/08/24 09:55
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**30.4**	**J**	50.0	15.0	mg/Kg			07/10/24 16:52	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	<10.9	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:52	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-6

Lab Sample ID: 880-45665-3
Matrix: Solid
Date Collected: 07/08/24 09:55
Date Received: 07/08/24 13:49
Sample Depth: 3'

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)	**30.4**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 16:52	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 16:52	1
Total TPH	**30.4**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 16:52	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:52*	*1*
o-Terphenyl	*105*		*70 - 130*	*07/08/24 15:23*	*07/10/24 16:52*	*1*

Client Sample ID: FP-7

Lab Sample ID: 880-45665-4
Matrix: Solid
Date Collected: 07/08/24 10:05
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**36.6**	**J**	50.0	15.0	mg/Kg			07/10/24 17:13	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	<10.9	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:13	1
Diesel Range Organics (Over C10-C28)	**36.6**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 17:13	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 17:13	1
Total TPH	**36.6**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:13	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:13*	*1*
o-Terphenyl	*103*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:13*	*1*

Client Sample ID: FP-8

Lab Sample ID: 880-45665-5
Matrix: Solid
Date Collected: 07/08/24 10:00
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**30.5**	**J**	50.0	15.0	mg/Kg			07/10/24 17:33	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	<10.9	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:33	1
Diesel Range Organics (Over C10-C28)	**30.5**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 17:33	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 17:33	1
Total TPH	**30.5**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:33	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-8

Lab Sample ID: 880-45665-5
Matrix: Solid
Date Collected: 07/08/24 10:00
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:33*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:33*	*1*

Client Sample ID: FP-9

Lab Sample ID: 880-45665-6
Matrix: Solid
Date Collected: 07/08/24 10:10
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**35.6**	**J**	50.0	15.0	mg/Kg			07/10/24 17:54	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	<10.9	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:54	1
Diesel Range Organics (Over C10-C28)	**35.6**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 17:54	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 17:54	1
Total TPH	**35.6**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 17:54	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:54*	*1*
o-Terphenyl	*97*		*70 - 130*	*07/08/24 15:23*	*07/10/24 17:54*	*1*

Client Sample ID: FP-10

Lab Sample ID: 880-45665-7
Matrix: Solid
Date Collected: 07/08/24 10:15
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**29.1**	**J**	50.0	15.0	mg/Kg			07/10/24 18:14	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	<11.0	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 18:14	1
Diesel Range Organics (Over C10-C28)	**29.1**	**J**	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 18:14	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 18:14	1
Total TPH	**29.1**	**J**	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 18:14	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*88*		*70 - 130*	*07/08/24 15:23*	*07/10/24 18:14*	*1*
o-Terphenyl	*93*		*70 - 130*	*07/08/24 15:23*	*07/10/24 18:14*	*1*

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-11

Lab Sample ID: 880-45665-8
Matrix: Solid
Date Collected: 07/08/24 10:20
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**78.2**		50.0	15.0	mg/Kg			07/10/24 14:57	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	<11.0	U	50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 14:57	1
Diesel Range Organics (Over C10-C28)	**78.2**		50.0	15.0	mg/Kg		07/09/24 16:03	07/10/24 14:57	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/09/24 16:03	07/10/24 14:57	1
Total TPH	**78.2**		50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 14:57	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*07/09/24 16:03*	*07/10/24 14:57*	*1*
o-Terphenyl	*84*		*70 - 130*	*07/09/24 16:03*	*07/10/24 14:57*	*1*

Client Sample ID: FP-12

Lab Sample ID: 880-45665-9
Matrix: Solid
Date Collected: 07/08/24 10:30
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<14.9	U	50.0	15.0	mg/Kg			07/10/24 10:39	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	<10.9	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 10:39	1
Diesel Range Organics (Over C10-C28)	<14.9	U F1	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 10:39	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 10:39	1
Total TPH	<14.9	U F1	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 10:39	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*80*		*70 - 130*	*07/08/24 15:23*	*07/10/24 10:39*	*1*
o-Terphenyl	*86*		*70 - 130*	*07/08/24 15:23*	*07/10/24 10:39*	*1*

Client Sample ID: FP-13

Lab Sample ID: 880-45665-10
Matrix: Solid
Date Collected: 07/08/24 10:25
Date Received: 07/08/24 13:49
Sample Depth: 3'

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

Analyte	Result	Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**66.5**		50.0	15.0	mg/Kg			07/10/24 15:15	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	<11.0	U	50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 15:15	1

Client Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-13

Date Collected: 07/08/24 10:25
Date Received: 07/08/24 13:49
Sample Depth: 3'

Lab Sample ID: 880-45665-10

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)	**66.5**		50.0	15.0	mg/Kg		07/09/24 16:03	07/10/24 15:15	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/09/24 16:03	07/10/24 15:15	1
Total TPH	**66.5**		50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 15:15	1

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*81*		*70 - 130*	*07/09/24 16:03*	*07/10/24 15:15*	*1*
o-Terphenyl	*83*		*70 - 130*	*07/09/24 16:03*	*07/10/24 15:15*	*1*

Surrogate Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-45665-1	FP-3	78	83										
880-45665-2	FP-5	90	94										
880-45665-3	FP-6	99	105										
880-45665-4	FP-7	97	103										
880-45665-5	FP-8	97	97										
880-45665-6	FP-9	92	97										
880-45665-7	FP-10	88	93										
880-45665-8	FP-11	82	84										
880-45665-9	FP-12	80	86										
880-45665-9 MS	FP-12	70	68 S1-										
880-45665-9 MSD	FP-12	77	76										
880-45665-10	FP-13	81	83										
LCS 880-85175/2-A	Lab Control Sample	103	102										
LCS 880-85268/2-A	Lab Control Sample	94	110										
LCSD 880-85175/3-A	Lab Control Sample Dup	98	103										
LCSD 880-85268/3-A	Lab Control Sample Dup	116	113										
MB 880-85175/1-A	Method Blank	90	100										
MB 880-85268/1-A	Method Blank	87	110										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

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

Lab Sample ID: MB 880-85175/1-A
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85175

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 08:05	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/08/24 15:23	07/10/24 08:05	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/08/24 15:23	07/10/24 08:05	1
Total TPH	<15.0	U	50.0	11.0	mg/Kg		07/08/24 15:23	07/10/24 08:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*07/08/24 15:23*	*07/10/24 08:05*	*1*
o-Terphenyl	*100*		*70 - 130*	*07/08/24 15:23*	*07/10/24 08:05*	*1*

Lab Sample ID: LCS 880-85175/2-A
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85175

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	938.2		mg/Kg		94	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	778.4		mg/Kg		78	70 - 130		

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

Lab Sample ID: LCSD 880-85175/3-A
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85175

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	902.1		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	740.5		mg/Kg		74	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*98*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 880-45665-9 MS
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: FP-12
Prep Type: Total/NA
Prep Batch: 85175

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<10.9	U	1000	798.1		mg/Kg		80	70 - 130		
Diesel Range Organics (Over C10-C28)	<14.9	U F1	1000	407.9	F1	mg/Kg		41	70 - 130		

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

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

Lab Sample ID: 880-45665-9 MS
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: FP-12
Prep Type: Total/NA
Prep Batch: 85175

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	70		70 - 130
o-Terphenyl	68	S1-	70 - 130

Lab Sample ID: 880-45665-9 MSD
Matrix: Solid
Analysis Batch: 85277

Client Sample ID: FP-12
Prep Type: Total/NA
Prep Batch: 85175

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<10.9	U	1000	818.2		mg/Kg		82	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<14.9	U F1	1000	461.6	F1	mg/Kg		46	70 - 130	12	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	77		70 - 130
o-Terphenyl	76		70 - 130

Lab Sample ID: MB 880-85268/1-A
Matrix: Solid
Analysis Batch: 85236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 85268

Analyte	MB Result	MB Qualifier	MQL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<11.0	U	50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 09:37	1
Diesel Range Organics (Over C10-C28)	<15.0	U	50.0	15.0	mg/Kg		07/09/24 16:03	07/10/24 09:37	1
Oil Range Organics (Over C28-C36)	<12.5	U	50.0	12.5	mg/Kg		07/09/24 16:03	07/10/24 09:37	1
Total TPH	<15.0	U	50.0	11.0	mg/Kg		07/09/24 16:03	07/10/24 09:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130	07/09/24 16:03	07/10/24 09:37	1
o-Terphenyl	110		70 - 130	07/09/24 16:03	07/10/24 09:37	1

Lab Sample ID: LCS 880-85268/2-A
Matrix: Solid
Analysis Batch: 85236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 85268

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	823.1		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	1000	982.5		mg/Kg		98	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	94		70 - 130
o-Terphenyl	110		70 - 130

QC Sample Results

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

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

Lab Sample ID: LCSD 880-85268/3-A
Matrix: Solid
Analysis Batch: 85236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 85268

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	836.5		mg/Kg		84	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	964.5		mg/Kg		96	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*116*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

GC Semi VOA

Prep Batch: 85175

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-1	FP-3	Total/NA	Solid	8015NM Prep	
880-45665-2	FP-5	Total/NA	Solid	8015NM Prep	
880-45665-3	FP-6	Total/NA	Solid	8015NM Prep	
880-45665-4	FP-7	Total/NA	Solid	8015NM Prep	
880-45665-5	FP-8	Total/NA	Solid	8015NM Prep	
880-45665-6	FP-9	Total/NA	Solid	8015NM Prep	
880-45665-7	FP-10	Total/NA	Solid	8015NM Prep	
880-45665-9	FP-12	Total/NA	Solid	8015NM Prep	
MB 880-85175/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85175/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-45665-9 MS	FP-12	Total/NA	Solid	8015NM Prep	
880-45665-9 MSD	FP-12	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-8	FP-11	Total/NA	Solid	8015B NM	85268
880-45665-10	FP-13	Total/NA	Solid	8015B NM	85268
MB 880-85268/1-A	Method Blank	Total/NA	Solid	8015B NM	85268
LCS 880-85268/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85268
LCSD 880-85268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85268

Prep Batch: 85268

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-8	FP-11	Total/NA	Solid	8015NM Prep	
880-45665-10	FP-13	Total/NA	Solid	8015NM Prep	
MB 880-85268/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-85268/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-85268/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 85277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-1	FP-3	Total/NA	Solid	8015B NM	85175
880-45665-2	FP-5	Total/NA	Solid	8015B NM	85175
880-45665-3	FP-6	Total/NA	Solid	8015B NM	85175
880-45665-4	FP-7	Total/NA	Solid	8015B NM	85175
880-45665-5	FP-8	Total/NA	Solid	8015B NM	85175
880-45665-6	FP-9	Total/NA	Solid	8015B NM	85175
880-45665-7	FP-10	Total/NA	Solid	8015B NM	85175
880-45665-9	FP-12	Total/NA	Solid	8015B NM	85175
MB 880-85175/1-A	Method Blank	Total/NA	Solid	8015B NM	85175
LCS 880-85175/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	85175
LCSD 880-85175/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	85175
880-45665-9 MS	FP-12	Total/NA	Solid	8015B NM	85175
880-45665-9 MSD	FP-12	Total/NA	Solid	8015B NM	85175

Analysis Batch: 85389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-1	FP-3	Total/NA	Solid	8015 NM	
880-45665-2	FP-5	Total/NA	Solid	8015 NM	
880-45665-3	FP-6	Total/NA	Solid	8015 NM	

QC Association Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

GC Semi VOA (Continued)

Analysis Batch: 85389 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-45665-4	FP-7	Total/NA	Solid	8015 NM	
880-45665-5	FP-8	Total/NA	Solid	8015 NM	
880-45665-6	FP-9	Total/NA	Solid	8015 NM	
880-45665-7	FP-10	Total/NA	Solid	8015 NM	
880-45665-8	FP-11	Total/NA	Solid	8015 NM	
880-45665-9	FP-12	Total/NA	Solid	8015 NM	
880-45665-10	FP-13	Total/NA	Solid	8015 NM	

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-3
Date Collected: 07/08/24 09:45
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 16:11
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 16:11

Client Sample ID: FP-5
Date Collected: 07/08/24 09:50
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 16:31
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 16:31

Client Sample ID: FP-6
Date Collected: 07/08/24 09:55
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 16:52
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 16:52

Client Sample ID: FP-7
Date Collected: 07/08/24 10:05
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 17:13
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 17:13

Client Sample ID: FP-8
Date Collected: 07/08/24 10:00
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 17:33
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 17:33

Client Sample ID: FP-9
Date Collected: 07/08/24 10:10
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 17:54

Eurofins Midland

Lab Chronicle

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Client Sample ID: FP-9
Date Collected: 07/08/24 10:10
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 17:54

Client Sample ID: FP-10
Date Collected: 07/08/24 10:15
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 18:14
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 18:14

Client Sample ID: FP-11
Date Collected: 07/08/24 10:20
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 14:57
Total/NA	Prep	8015NM Prep			85268	EL	EET MID	07/09/24 16:03
Total/NA	Analysis	8015B NM		1	85236	TKC	EET MID	07/10/24 14:57

Client Sample ID: FP-12
Date Collected: 07/08/24 10:30
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 10:39
Total/NA	Prep	8015NM Prep			85175	EL	EET MID	07/08/24 15:23
Total/NA	Analysis	8015B NM		1	85277	SM	EET MID	07/10/24 10:39

Client Sample ID: FP-13
Date Collected: 07/08/24 10:25
Date Received: 07/08/24 13:49

Lab Sample ID: 880-45665-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8015 NM		1	85389	SM	EET MID	07/10/24 15:15
Total/NA	Prep	8015NM Prep			85268	EL	EET MID	07/09/24 16:03
Total/NA	Analysis	8015B NM		1	85236	TKC	EET MID	07/10/24 15:15

Laboratory References:

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

Accreditation/Certification Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs 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

Method Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Method	Method Description	Protocol	Laboratory
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
8015NM Prep	Microextraction	SW846	EET MID

Protocol References:

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

Laboratory References:

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

Sample Summary

Client: Ensolum
Project/Site: Hobbs Station

Job ID: 880-45665-1
SDG: Hobbs NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-45665-1	FP-3	Solid	07/08/24 09:45	07/08/24 13:49	3'
880-45665-2	FP-5	Solid	07/08/24 09:50	07/08/24 13:49	3'
880-45665-3	FP-6	Solid	07/08/24 09:55	07/08/24 13:49	3'
880-45665-4	FP-7	Solid	07/08/24 10:05	07/08/24 13:49	3'
880-45665-5	FP-8	Solid	07/08/24 10:00	07/08/24 13:49	3'
880-45665-6	FP-9	Solid	07/08/24 10:10	07/08/24 13:49	3'
880-45665-7	FP-10	Solid	07/08/24 10:15	07/08/24 13:49	3'
880-45665-8	FP-11	Solid	07/08/24 10:20	07/08/24 13:49	3'
880-45665-9	FP-12	Solid	07/08/24 10:30	07/08/24 13:49	3'
880-45665-10	FP-13	Solid	07/08/24 10:25	07/08/24 13:49	3'

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Chain of Custody

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

Work O

880-45665 Chain of Custody

www.xenco.com Page 1 of 1

Project Manager:	Kelly Lowery	Bill to: (if different)	
Company Name:	Eunolom	Company Name:	
Address:	601 Marienfeld 400	Address:	
City, State ZIP:	MIDLAND TX 79701	City, State ZIP:	
Phone:	432 230 3344	Email:	klowery@eunolom.com

Work Order Comments

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

Project Name:	Hobbs Station	Turn Around	☑ Routine ☐ Rush
Project Number:	03B122C295	Due Date:	
Project Location:	Hobbs NM	TAT starts the day received by the lab, if received by 4:30pm	
Sampler's Name:	Steve D. Ilcr		
PO #:	03B1226295		

SAMPLE RECEIPT			
Temp Blank:	Yes (No)	Wet Ice:	Yes No
Samples Received Intact:	Yes No	Thermometer ID:	[illegible]
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-1.6
Sample Custody Seals:	Yes No N/A	Temperature Reading:	00.2
Total Containers:		Corrected Temperature:	00.2

Preservative Codes

None: NO; DI Water: H_2O; Cool: Cool; MeOH: Me; HCL: HC; HNO_3: HN; H_2SO_4: H_2; NaOH: Na; H_3PO_4: HP; $NaHSO_4$: NABIS; $Na_2S_2O_3$: $NaSO_3$; Zn Acetate+NaOH: Zn; NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: TPH 8015M	Sample Comments
FP-3	S	7-8-24	945	3'	C	1		X	
FP-5	S	7-8-24	950	3'	C	1		X	
FP-6	S	7-8-24	955	3'	C	1		X	
FP-7	S	7-8-24	1005	3'	C	1		X	
FP-8	S	7-8-24	1000	3'	C	1		X	
FP-9	S	7-8-24	1010	3'	C	1		X	
FP-10	S	7-8-24	1015	3'	C	1		X	
FP-11	S	7-8-24	1020	3'	C	1		X	
FP-12	S	7-8-24	1030	3'	C	1		X	
FP-13	S	7-8-24	1025	3'	C	1		X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		7/10/24 1349	2		
3			4		
5			6		

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 880-45665-1
SDG Number: Hobbs NM

Login Number: 45665
List Number: 1
Creator: Vasquez, Julisa

List Source: Eurofins Midland

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

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Santa Fe, NM 87505

QUESTIONS

Action 405344

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nTO1422648223**
Incident Name	**NTO1422648223 HOBBS STATION @ 0**
Incident Type	**Oil Release**
Incident Status	**Remediation Closure Report Received**

Location of Release Source *Please answer all the questions in this group.*	
Site Name	HOBBS STATION
Date Release Discovered	07/13/2014
Surface Owner	Federal

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: Corrosion | Flow Line - Production | Crude Oil | Released: 150 BBL | Recovered: 89 BBL | Lost: 61 BBL.
Produced Water Released (bbls) Details	*Not answered.*
Is the concentration of chloride in the produced water >10,000 mg/l	*Not answered.*
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)	*Not answered.*

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	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	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	*Not answered.*

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: Christopher Spore Title: Lead Field Environmental Scientist Email: caspore@eprod.com Date: 11/20/2024

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QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	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 26 and 50 (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	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 500 and 1000 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
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
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.	
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)	76.2
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	94.7
GRO+DRO (EPA SW-846 Method 8015M)	94.7
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	07/13/2014
On what date will (or did) the final sampling or liner inspection occur	07/08/2024
On what date will (or was) the remediation complete(d)	09/23/2014
What is the estimated surface area (in square feet) that will be reclaimed	900
What is the estimated volume (in cubic yards) that will be reclaimed	160
What is the estimated surface area (in square feet) that will be remediated	900
What is the estimated volume (in cubic yards) that will be remediated	0
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 (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
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.	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
(Select all answers below that apply.)	
(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	SUNDANCE SERVICES, INC [fKJ1600527371]
OR which OCD approved well (API) will be used for **off-site** disposal	*Not answered.*
OR is the **off-site** disposal site, to be used, out-of-state	No
OR is the **off-site** disposal site, to be used, an NMED facility	No
(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.*
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 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: Christopher Spore Title: Lead Field Environmental Scientist Email: caspore@eprod.com Date: 11/20/2024
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 (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	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 (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 405344
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**360984**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**07/08/2024**
What was the (estimated) number of samples that were to be gathered	**12**
What was the sampling surface area in square feet	**300**

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	900
What was the total volume (cubic yards) remediated	160
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	900
What was the total volume (in cubic yards) reclaimed	160
Summarize any additional remediation activities not included by answers (above)	Site was re-graded to pre-release conditions, within the facility fencing.

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: Christopher Spore Title: Lead Field Environmental Scientist Email: caspore@eprod.com Date: 11/20/2024

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QUESTIONS (continued)

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 405344
	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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CONDITIONS

Operator:	OGRID:
Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	241602
	Action Number: 405344
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
bhall	Remediation closure approved.	12/11/2024
bhall	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/11/2024
bhall	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. The OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	12/11/2024
bhall	A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	12/11/2024
bhall	All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.	12/11/2024