



CLOSURE REPORT

Property:

Trunk C Discharge

Unit C, S30, T24S, R30E
32.194082° N, 103.923084° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2333431605

June 20, 2024
Ensolum Project No. 03B1226321

Prepared for:

Enterprise Field Services, LLC
PO Box 4324
Houston, TX 77210

Attn: Robert Dunaway

Prepared by:

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Project Geologist

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CLOSURE REPORT

Trunk C Discharge

Unit C, S30, T24S, R30E
32.149012° N, 103.881141° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2333431605

Ensolum Project No. 03B1226321

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	Enterprise Field Services, LLC (Enterprise)
Site Name:	Trunk C Discharge
Location:	Unit C, Section 30, Township 24 South, Range 30 East 32.194082° N, 103.923084° W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On November 30, 2023, a pinhole leak was discovered by a third party on Enterprise's Trunk C (WMH – V4E) Trunk pipeline, with no liquids observed on the ground surface. Repair activities immediately began, at which time Enterprise determined the release to be reportable per New Mexico EMNRD OCD regulations based on the volume of impacted subsurface soils. Enterprise reported the release to the New Mexico EMNRD OCD via email on November 30, 2023, followed up with a report through the online notice of release (NOR), and was subsequently assigned Incident Number nAPP2333431605. During the release, approximately 5 barrels (bbls) of condensate was released into the subsurface, with 0 bbls recovered.

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 chemicals 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. The gas portion of this release constitutes venting that occurred during an emergency or a malfunction, as authorized by the New Mexico OCD regulations at



Closure Report
Trunk C Discharge

June 20, 2024
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NMAC 19.15.28.8.A and B(1). This release therefore is not prohibited by NMAC 19.15.29.8.A. Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- Four exploratory water wells records were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. These water wells are indicated to be permitted locations with no known well records. The closest well (C-02109), located approximately 0.7-miles northeast of the Site, was reportedly installed for livestock watering in 1963 with a recorded depth to groundwater of 150 feet bgs.
- 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 and USGS databases, 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 and USGS databases, there are no freshwater wells identified within 1,000 feet of the Site.
- 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.
- Based on information identified on the National Wetlands Inventory surface waters and wetlands mapper, 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 not located within an unstable area, also referred to as low karst potential.
- 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
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3.0 SOIL REMEDIATION ACTIVITIES

On November 30, 2023, a pinhole leak was discovered by a third party on Enterprise's Trunk C (WMH – V4E) Trunk pipeline, with no liquids observed on the ground surface. Approximately 5 bbls of condensate was released into the subsurface, with 0 bbls recovered. Following submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by New Mexico Rentals Pipeline, LLC (NMR) utilizing a backhoe to excavate soils from the release area.

On December 11, 2023, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS01) and one composite soil sample from the excavation sidewall (SW01). The excavation floor soil sample was collected at a depth of 4 feet below ground surface (bgs) and the excavation sidewall soil sample was collected at a depth of 0-4 feet. Additionally, one composite soil stockpile (Stockpile) sample was collected from the excavated soil stockpile. Based on laboratory analytical data, additional excavation activities were necessary.

On January 22, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect two composite soil samples from the excavation floor (FS01 and FS02) and four composite soil samples from the excavation sidewall (SW01, SW02, SW03 and SW04). The excavation floor samples were collected at a depth of 14 feet bgs, and the excavation sidewall samples were collected at a depth of 0-14 feet bgs. Additionally, one composite soil stockpile (Stockpile) sample was collected from the excavated soil stockpile. Based on laboratory analytical data, additional excavation activities were necessary.

On January 29, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS03) at a depth of 14 feet bgs, and one composite soil sample from the excavation sidewall (SW04) at a depth of 0-14 feet bgs. Based on laboratory analytical data, additional excavation activities were necessary.

Due to structural integrity issues involving the Trunk C (WMH-V4E) Trunk pipeline, only 10-foot sections could be exposed safely during the excavation process. Because of this, excavation activities were slow to progress. On February 8, 2024, Enterprise requested, and was subsequently approved, a 90-day extension by the EMNRD OCD to continue with the remediation and subsequent reporting of the Site.

On February 26, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect one composite soil sample from the excavation floor (FS03) at a depth of 18 feet bgs, and one composite soil sample from the excavation sidewall (SW04) at a depth of 0-18 feet bgs. Based on the laboratory analytical data, this 10-foot section of the excavation was now below the applicable Closure Criteria Limits for this Site, and was subsequently backfilled so the next 10-foot section of the release extent could be excavated.

Between March 20, 2024 and March 22, 2024, additional remediation activities were halted due to high levels of benzene detected within the excavation extent and the immediately surrounding area with field screening equipment. Per Enterprise's safety protocols, a change of scope was implemented which required internal job planning and special excavation procedures. Once benzene concentrations were below the permissible limits for the workplace environment per Enterprise's internal policies, remediation activities would resume. Due to the industrial hygiene issues with benzene concentrations in the working space and the excavation extent requiring larger excavation equipment to collect samples safely, Enterprise requested, and was subsequently approved, a final 90-day extension by the EMNRD OCD to complete remediation activities and the subsequent reporting of the Site.

On April 8, 2024, NMR and Enterprise arrived on-Site to apply a microbial solution, Micro-Blaze®, to the newly excavated section of the Trunk C (WMH-V4E) Trunk pipeline to help promote bioremediation of the

COCs in soils left in place. The safety data sheet (SDS) for the microbial solution is provided in **Appendix B**.

Between April 15 and April 29, 2024, subsequent to the completion of additional excavation activities, Ensolum arrived on-Site and collected a total of four composite soil samples from three locations on the excavation floor (FS04, FS05, and FS06) at depths ranging from 5 to 20 feet bgs, and a total of 10 composite soil samples from six locations on the excavation sidewalls (SW05 through SW10) at depths ranging from 0-20 feet bgs. Additionally, Ensolum collected a total of 10 soil samples from nine discrete delineation locations (DS01 through DS09) from around the outside of the excavation area at a depth of 0.25 feet bgs, and one composite soil stockpile (Stockpile) sample was collected from the excavated soil stockpile. Based on laboratory analytical data of the final soil samples, no additional excavation activities were necessary.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, total xylenes (BTEX), total BTEX, total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO), motor oil/lube oil range organics (MRO), and chloride in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 47 feet long and 27 feet wide at the maximum extents, with a depth of 5 to 20 feet bgs.

A total of approximately 1,352 cubic yards of affected soils were excavated from the Site and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation extent was backfilled with clean imported fill, contoured to the original surrounding grade.

Figure 3 is a map that identifies approximate soil sample locations and depicts the approximate dimensions of the excavation extent with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from December 11, 2023 through April 29, 2024 included the collection of a total of 26 composite soil samples from 16 locations in the excavation floor and sidewalls (FS01 through FS06, and SW01 through SW10), 10 delineation soil samples from nine locations outside of the excavation area (DS01 through DS09) and three composite soil stockpile sample from the excavation soil stockpile (Stockpile) staged on-Site for laboratory analysis.

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 Hall Environmental Analysis Laboratory in Albuquerque, New Mexico and/or Cardinal Laboratories in Hobbs, New Mexico, under proper chain-of-custody procedures.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX using Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO using EPA SW-846 Method 8015M/D, and chloride using EPA Method 300.0 or SM4500Cl-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 total benzene, total BTEX, TPH GRO/DRO/MRO, and chloride concentrations or laboratory sample detection limits (SDLs) associated with the final composite excavation soil samples

(FS01 through FS06, and SW01 through SW10), and the final delineation soil samples (DS01 through DS09) for the soils left in place at the Site, and the composite soil stockpile (Stockpile) samples to the NMOCD Closure Criteria.

- Laboratory analytical results indicate total benzene concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs and/or the NMOCD Closure Criteria of 600 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples collected from the stockpile staged on-Site exceeds the applicable NMOCD Closure Criteria of 100 mg/kg for depth to groundwater ≤50 feet. The soil stockpiles were transported off-Site for proper disposal.

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

7.0 RECLAMATION AND RE-VEGETATION

The release occurred off pad along the Enterprise right-of-way (ROW) and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation was backfilled with locally fill material and topsoil to match surrounding grade. Approximately 2 feet of topsoil has been placed on top of the backfill area to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release include: predominately loamy sand;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which will be: Pecos District BLM Seed Mix for Loamy Sand, SD-3 Ecological Site.
- The seed mixture will be distributed with one of the following methods: push broadcaster seed spreader / tractor operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture will be at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method, or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever is more applicable;
- Erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or

- Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation has already been completed;
- Seeding is anticipated to be completed within the next month when temperatures and precipitation is most conducive for vegetation growth. In general, seeding should occur approximately one month after the last frost in the Spring up until approximately one month prior to the first fall frost.
- Annual inspections (at a minimum), will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On November 30, 2023, a pinhole leak was discovered by a third party on Enterprise's Trunk C (WMH – V4E) Trunk pipeline, with no liquids observed on the ground surface. Approximately 5 bbls of condensate was released into the subsurface, with 0 bbls recovered.
- Following submittal of an emergency NM-811, corrective action activities were commenced by NMR utilizing a backhoe to excavate soils from the release area.
- Between December 11, 2023 and April 29, 2024, Ensolum arrived on-Site to collect a total of 26 composite soil samples from 16 locations in the excavation floor and sidewalls (FS01 through FS06, and SW01 through SW10), 10 delineation soil samples from nine locations outside of the excavation area (DS01 through DS09) and three composite soil stockpile sample from the excavation soil stockpile (Stockpile) staged on-Site for laboratory analysis.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 47 feet long and 27 feet wide at the maximum extents, with a depth of 5 to 20 feet bgs.
- Based on the laboratory analytical results, the final composite soil samples for the soils left in place at the Site collected from the excavation area and the delineation samples outside of the impacted area did not exhibit total benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Based on the laboratory analytical results, the composite soil samples collected from the soil stockpiles staged on-Site did not exhibit benzene, total BTEX, or chloride concentrations above the applicable NMOCD Closure Criteria; however, concentrations of TPH GRO/DRO/MRO were identified above the applicable NMOCD Closure Criteria.
- Subsequent to the results of the composite soil sampling, the soil stockpiles staged on-Site were removed and taken off-Site for proper disposal. A total of approximately 1,352 cubic yards of soils were excavated and transported to the Lea Land, LLC facility in Carlsbad, New Mexico. The excavation area was backfilled with clean fill material, contoured to the original surrounding grade, and a BLM approved seed mixture will be sown into the surface area of the backfill for re-vegetation.

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.

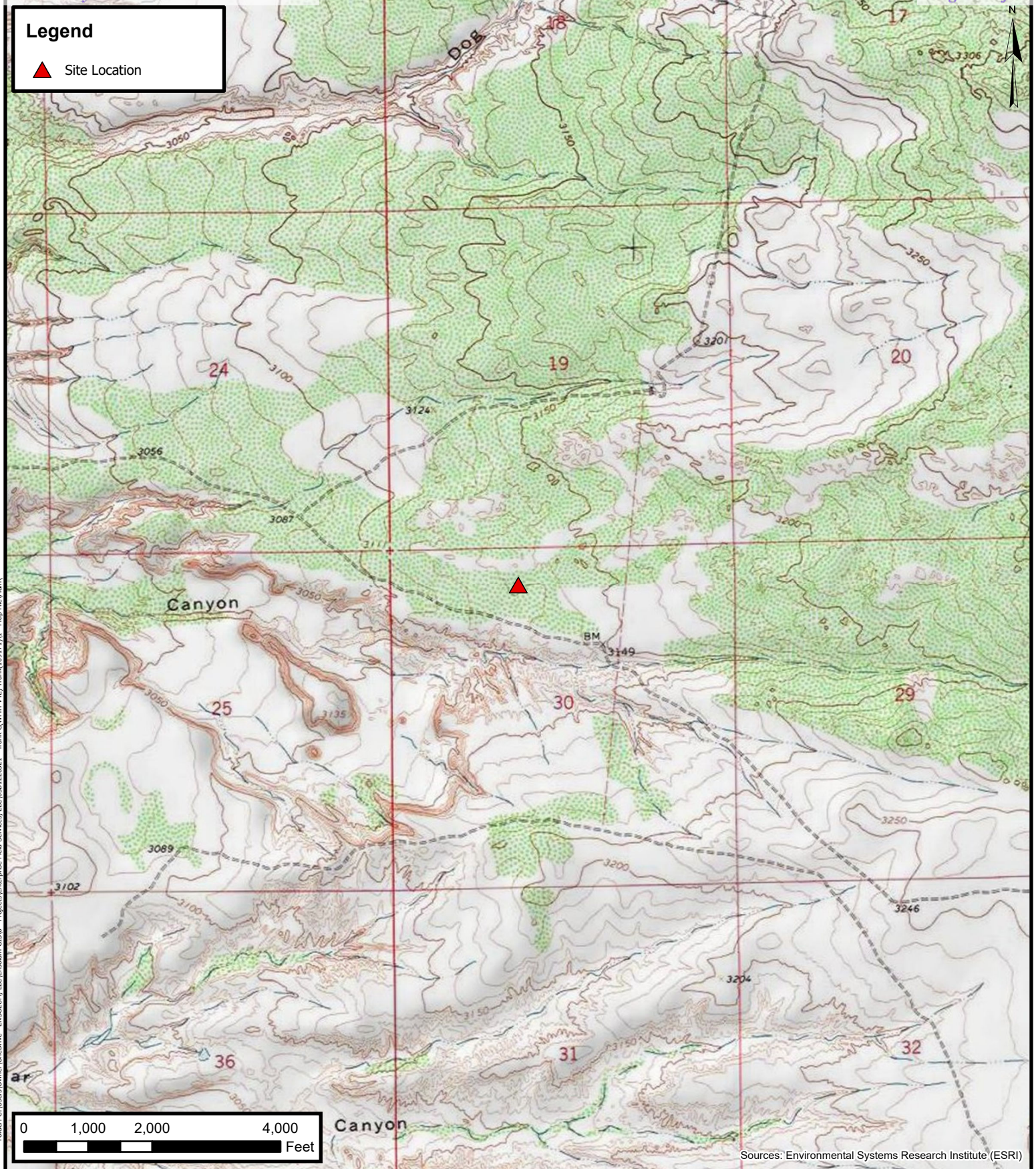
9.3 Reliance

This report has been prepared for the exclusive use of Enterprise Field Services, 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 Field Services, 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.



APPENDIX A

Figures



Topographic Map
Enterprise Field Services, LLC.
Trunk C Discharge
Project Number: 03B1226321
32.194082, -103.923084
Eddy County, New Mexico

FIGURE
1



Site Vicinity Map

Enterprise Field Services, LLC.

Trunk C Discharge

Project Number: 03B1226321









32.194082, -103.923084

Eddy County, New Mexico

FIGURE

2

Legend

-  Release Point
-  Confirmation Floor
Sample in Compliance
with Closure Criteria
-  Delineation Soil Sample
in Compliance with
Closure Criteria
-  Confirmation Sidewall
Sample in Compliance
with Closure Criteria
-  Trunk C (WMH-V4E)
Trunk Pipeline
-  Excavation Extent
-  Over Excavation Extent
2
-  Over Excavation Extent
3



0 5 10 20
Feet

Sources: Environmental Systems Research Institute (ESRI)

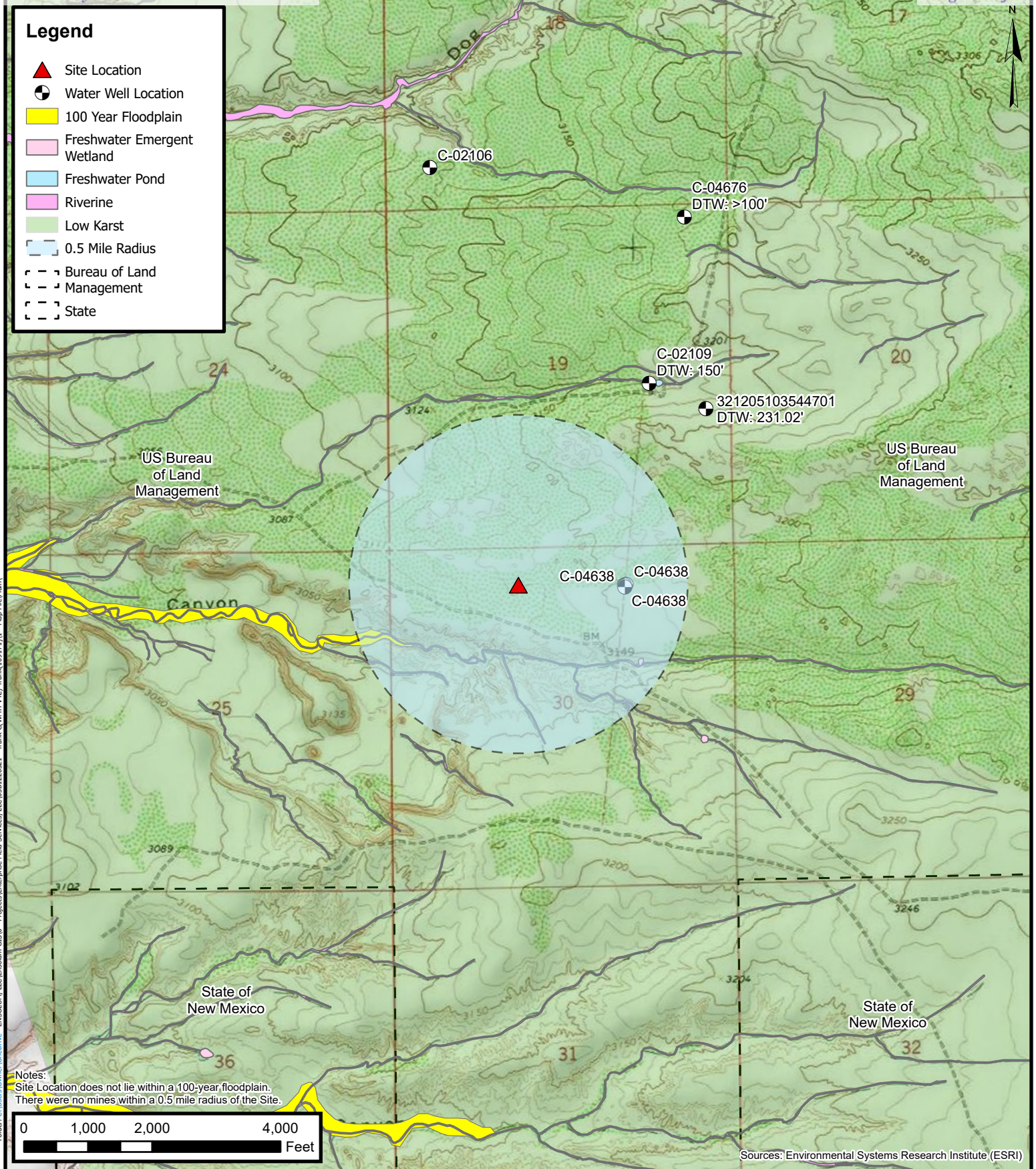


Site Map

Enterprise Field Services, LLC.
Trunk C Discharge
Project Number: 03B1226321
32.194082, -103.923084
Eddy County, New Mexico

FIGURE

3



Closure Criteria Map

Enterprise Field Services, LLC.
Trunk C(WMH-V4E) Trunk(109171)
Project Number: 03B1226321
32.194082, -103.923084
Eddy County, New Mexico

FIGURE

4



APPENDIX B

Supporting Documentation

Gas Loss Calculations

Trunk C Discharge

Release Parameters:

Pipeline Purging Calculation

Diameter of leak (inches)	0.0833	
Operating Pressure PSIA	794	
Duration of Leak (Days)	0.04	
	5.29	MCF (Gas Loss)
% Natural Gas	100	
Total Gas Loss	5.29	

Emission Factors:

gm-Moles/scf	1.263	
gm/lbs	454	5

Components(Mol%)

N2	0.3583
CO2	0.885
C1 (ethane)	8.58
C2 (propane)	3.94
C3 (methane)	83.19
iC4 (Isobutane)	0.72
nC4 (butane)	1.07
iC5 (iso-pentane)	0.4
nC5 (n-pentane)	0.2895
C6+ (heptane)	0.07
Avg MW(Total)	41.33
Avg MW(VOC)	44.66
BTU/SCF	2344.70

Gas	Emissions to
Loss	Atmosphere
	<u>VOC (LBS)</u>
5.2890995136 MCF	563.31

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

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

QUESTIONS

Action 291095

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 291095
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333431605
Incident Name	NAPP2333431605 TRUNK C DISCHARGE @ 0
Incident Type	Natural Gas Release
Incident Status	Initial C-141 Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Trunk C Discharge
Date Release Discovered	11/30/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas 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	Not answered.
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	Cause: Corrosion Pipeline (Any) Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
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.

District I

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Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

QUESTIONS, Page 2

Action 291095

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 291095
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/05/2023
--	---

District I

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Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 291095

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 291095
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

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	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Between 1000 (ft.) and ½ (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	No
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.	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 291095

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 291095
	Action Type: [C-141] Initial C-141 (C-141-v-Initial)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	12/5/2023

From: [Dunaway, Robert](#)
To: [Kelly Lowery](#)
Subject: FW: Extension Request, nAPP2333431605
Date: Thursday, February 8, 2024 2:15:37 PM
Attachments: [image003.png](#)

[**EXTERNAL EMAIL**]

For the final report.

Robert Dunaway
Manager, Environmental
3008 E Greene Street, Carlsbad, NM 88220
Office: (575) 628-6830 | rdunaway@eprod.com



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, February 8, 2024 1:14 PM
To: Dunaway, Robert <rdunaway@eprod.com>
Cc: Feather, David <DFeather@eprod.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>; Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] Extension Request, nAPP2333431605

[Use caution with links/attachments]

RE: Incident #**NAPP2333431605**

Robert,

Your request for a 90-day extension to **May 8th, 2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, February 8, 2024 9:56 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request, nAPP2333431605

From: Dunaway, Robert <rhodunaway@eprod.com>
Sent: Thursday, February 8, 2024 9:51 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Feather, David <DFeather@eprod.com>
Subject: [EXTERNAL] Extension Request, nAPP2333431605

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

Good morning.

Enterprise would like to request an extension to 5/27/24 for nAPP2333431605 (Trunk C).

Remediation is in process on the pipeline release, but Enterprise can only expose 10' of the line at a time due to safety concerns. This has caused the project to move slowly and require extra time to complete the remediation project.

Robert Dunaway
Manager, Environmental
3008 E Greene Street, Carlsbad, NM 88220
Office: (575) 628-6830 | rhodunaway@eprod.com



This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.

Kelly Lowery

From: Dunaway, Robert <rhodunaway@eprod.com>
Sent: Wednesday, April 24, 2024 12:11 PM
To: Kelly Lowery
Subject: Fwd: [EXTERNAL] (Final Extension) NAPP2333431605 TRUNK C DISCHARGE
Attachments: image002.jpg; image003.png

[**EXTERNAL EMAIL**]

Sent from my iPhone

Begin forwarded message:

From: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>
Date: April 24, 2024 at 11:01:45 AM MDT
To: "Dunaway, Robert" <rhodunaway@eprod.com>
Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>, "Velez, Nelson, EMNRD" <Nelson.Velez@emnrd.nm.gov>
Subject: [EXTERNAL] (Final Extension) NAPP2333431605 TRUNK C DISCHARGE

[Use caution with links/attachments]
RE: Incident #NAPP2333431605

Robert,

Your request for a 90 day extension to July 23rd, 2024 is approved. This will be the final extension for this release. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us<mailto:robert.hamlet@state.nm.us>
<http://www.emnrd.state.nm.us/OCD/><[https://urldefense.com/v3/__http://www.emnrd.state.nm.us/OCD/__;!!AT8jIA!9phmFqZZP36gITJX1ccEw6FWLgHU0dNW-qCVoElGJ_1oxltrdTYsfjcv6RCV78a4tTZs87QTD-UfdiGgqwtQMQVtdt4e\\$](https://urldefense.com/v3/__http://www.emnrd.state.nm.us/OCD/__;!!AT8jIA!9phmFqZZP36gITJX1ccEw6FWLgHU0dNW-qCVoElGJ_1oxltrdTYsfjcv6RCV78a4tTZs87QTD-UfdiGgqwtQMQVtdt4e$)>
[image002.jpg]

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, April 24, 2024 9:19 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request nAPP2333431605

From: Dunaway, Robert <rhodunaway@eprod.com<mailto:rhodunaway@eprod.com>>
Sent: Wednesday, April 24, 2024 8:52 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov<mailto:OCD.Enviro@emnrd.nm.gov>>
Subject: [EXTERNAL] Extension Request nAPP2333431605

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

Good morning.

Enterprise Products would like to request an extension to nAPP2333431605 (Trunk C). Remediation has been underway but there have been safety issues outside Enterprise's control.

1. Only 10' of the pipeline can be exposed at a time due to safety/pipeline support requirements, adding to the time required for excavation and remediation.
2. There have been industrial hygiene issues with benzene levels, requiring job planning and special excavation procedures.
3. The excavation is approaching 20' in some places, requiring larger excavation equipment.

Enterprise understands that this is the second extension request for this project. We feel that we can bring the project to closure within the next 90 days, barring something truly extraordinary. Enterprise requests an extension to 7/19/24.


Robert Dunaway
Manager, Environmental
3008 E Greene Street, Carlsbad, NM 88220
Office: (575) 628 6830 | Cell: (575) 307 9378 rhodunaway@eprod.com<<mailto:rhodunaway@eprod.com>>
[image003.png]

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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
C	02109	1	2	4	19	24S	30E	602130	3563412 

Driller License:**Driller Company:****Driller Name:** UNKNOWN**Drill Start Date:****Drill Finish Date:** 12/31/1963**Plug Date:****Log File Date:****PCW Rcv Date:****Source:****Pump Type:****Pipe Discharge Size:****Estimated Yield:** 40 GPM**Casing Size:** 7.00**Depth Well:** 130 feet**Depth Water:** 150 feet

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

11/15/23 9:17 AM

POINT OF DIVERSION SUMMARY

agency_cd	site_no	station_nm	dec_lat_va	dec_long_va	dec_coord_datum_cd	state_cd	county_cd	Altitude_ft	alt_datum_cd	well_depth_va	gw_count_nu	lev_dt	lev_va	x	y
USGS	3.21205E+14	24S.30E.19.42113	32.2015121	-103.9135416	NAD83	35	15	3188	NAVD88	452	9	1/27/1998	231.02	602399.3963000001	3563289.5540999994

PECOS DISTRICT, BLM
SEED MIX FOR

The following Soils or Soil Association may represent these ecological sites:

Alama silt loam, dry, 0-3% Slope, Atoka, Bigetty-Pecos, Harkey fine sandy loam, Holloman, Holloman-Gypsum Land, Hollomex loam, 1-9% slope, dry, Largo loams, Milner loam, 0-2% slope, dry, Reagan loam, Reakor, Reakor-Bigetty, Reakor-Tencee, Reeves loam, 0-2% slope, dry, Russler, Shanta, Upton-Reakor

Loamy, SD-3 Ecological Site
Loamy CP-2
Gyp Upland CP-2

April 4, 2006

<u>Common Name and Preferred Variety</u>	<u>Scientific Name</u>	<u>Pounds of Pure Live Seed Per Acre</u>
Blue grama,	(<i>Bouteloua gracilis</i>)	4.0
Sideoats grama,	(<i>Bouteloua curtipendula</i>)	1.0
Sand dropseed	(<i>Sporobolus cryptandrus</i>)	0.5
Vine mesquite	(<i>Panicum obtusum</i>)	1.0
Plains bristlegrass	(<i>Setaria macrostachya</i>)	1.0
Indian blanketflower	(<i>Gaillardia aristata</i>)	0.5
Desert or Scarlet Globemallow	(<i>Sphaeralcea ambigua</i>) or (<i>S. coccinea</i>)	1.0
Annual sunflower	(<i>Helianthus annuus</i>)	0.75
TOTAL POUNDS PURE LIVE SEED (pls) PER ACRE		9.75
Certified Weed Free Seed		

If one species is not available, increase ALL others proportionately.
Use No Less than 4 species, including one forb.

No less than 9.75 pounds pls per acre shall be applied

APPROVED: /s/ Douglas J. Burger
District Manager, Pecos District



Safety Data Sheet Micro-Blaze® Out

1. IDENTIFICATION OF THE SUBSTANCE

Product identifier

Product Name: Micro-Blaze® Out
Product Code: MBO

Recommended use of the chemical and restrictions on use

Recommended Use: Fire Fighting/Bioremediation
Uses advised against: Please refer to Product Data Sheet

Details of the supplier of the Safety Data Sheet

Contact Manufacturer: Verde Environmental, Inc.
9223 Eastex Freeway
Houston, TX USA 77093
Information Telephone Number: 1-713-691-6468
Emergency Telephone Number: 1-800-424-9300 (Chemtrec) 24 hours every day

2. HAZARDS IDENTIFICATION

Classification

Classification of the product is in accordance with 29CFR 1910.1200

Acute toxicity – Oral	Category 5
Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1

Label elements

Emergency Overview

Warning

Hazard statements

May cause an allergic skin reaction
Causes serious eye irritation
May be harmful if swallowed



Appearance: Opaque

Physical State: Liquid

Odor: Slight fermentation odor



Safety Data Sheet Micro-Blaze® Out

Precautionary Statements – Prevention

Wear eye/face protection. Wear protective gloves. Avoid breathing dust/fume/gas/mist/vapors/spray.

Precautionary Statements – Response

Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Skin	IF ON SKIN: Gently wash with plenty of soap and water
Inhalation	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
Ingestion	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements – Storage

Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F

Precautionary Statements – Disposal

Dispose of unused product and container in accordance with all applicable local and regional requirements

Hazards not otherwise classified (HNOC)

Not applicable

Other information

Health Hazard	1
Fire Hazard	0
Reactivity	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	Weight - %
Water and Proprietary Viable Spore Forming Cultures	> 60
Ammonium Lauryl Sulfate	> 30
Proprietary blend of Ethoxylated Alcohols and other Organic Materials	1.0 – 3.0
Additives	0.1 – 0.8
Polysaccharide Xanthum Gum	0.1 <

Note: Micro-Blaze Out® does not contain PFOS, PFAS or any other fluorosurfactant



Safety Data Sheet Micro-Blaze® Out

4. FIRST AID MEASURES

First aid measures

Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
Skin Contact	Wash off immediately with soap and plenty of water
Inhalation	Move to fresh air
Ingestion	Clean mouth with water and afterwards drink plenty of water

Most important symptoms and effects, both acute and delayed

Main symptoms	No information available
---------------	--------------------------

Indication of any immediate medical attention and special treatment needed

Notes to physician	Treat symptomatically
--------------------	-----------------------

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Specific Hazards Arising from the Chemical

No information available

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Ensure adequate ventilation
----------------------	-----------------------------

Environmental precautions

Environmental Precautions	It is not anticipated to be hazardous for the environment
---------------------------	---

Methods and material for containment and cleaning up

Methods for Clean-up	Pick up and transfer to properly labeled containers
----------------------	---



Safety Data Sheet Micro-Blaze® Out

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place

Packaging Material There could be many packaging types for the product. The details are given in other Verde Environmental, Inc. documents

Incompatible Materials Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Individual protection measures, such as personal protective equipment

Eye Protection Avoid contact with eyes

Skin and body protection No special technical protective measures are necessary

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practices

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Tan, Opaque
Odor	Pleasant (perfume)
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>
pH	7.0 – 8.0
Melting/freezing point	freeze at 0°C/32°F
Evaporation rate VALUE	No information available
Flammability (solid, gas)	Not flammable
Burning rate 100mm VALUE	No information available
Vapor pressure	No information available
Vapor density	No information available
Specific gravity	No information available
Water solubility	99%



Safety Data Sheet Micro-Blaze® Out

Solubility in other solvents	No information available
Partition Coefficient (n-octanol/water)	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity of product	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available
 <u>Other Information</u>	
Softening Point	No information available
VOC Content	No information available
Density	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions

Possibility of Hazardous Reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

Incompatible materials

Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures

Hazardous Decomposition Products

No information available

11. Toxicological Information

Information on likely routes of exposure

Inhalation	There is no data available for this product
Eye contact	Avoid contact with eyes. Severely irritating to eyes
Skin contact	Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Ingestion may cause stomach discomfort



Safety Data Sheet

Micro-Blaze® Out

Information on toxicological effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization of susceptible persons
Mutagenic Effects No information available
Reproductive Effects No information available
Specific target organ systemic toxicity No information available
Aspiration hazard No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

None known

Chemical Name	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ammonium Lauryl Sulfate				EC50 = 10452 mg/L 48h

Persistence/Degradability

The organic components of the product are biodegradable.

Bioaccumulation/Accumulation

No information available

Other adverse effects

No known effect

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of contents/container in accordance with local regulation

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal

14. TRANSPORT INFORMATION

Transport regulations: No dangerous goods according to transport regulations
 No special precautions required

Transport hazard class(es): N/A



Safety Data Sheet Micro-Blaze® Out

Packing group: N/A

Environmental hazards: N/A

15. REGULATORY INFORMATION

International Inventories

Legend:

TSCA – United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL – Canadian Domestic Substances List/Non-Domestic Substances List

Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

SARA 311/312 Hazardous

Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

State Right-to-Know

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

Canada



Safety Data Sheet Micro-Blaze® Out

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

Revision date: 01.22.2021

Revision Summary

No information available

Disclaimer

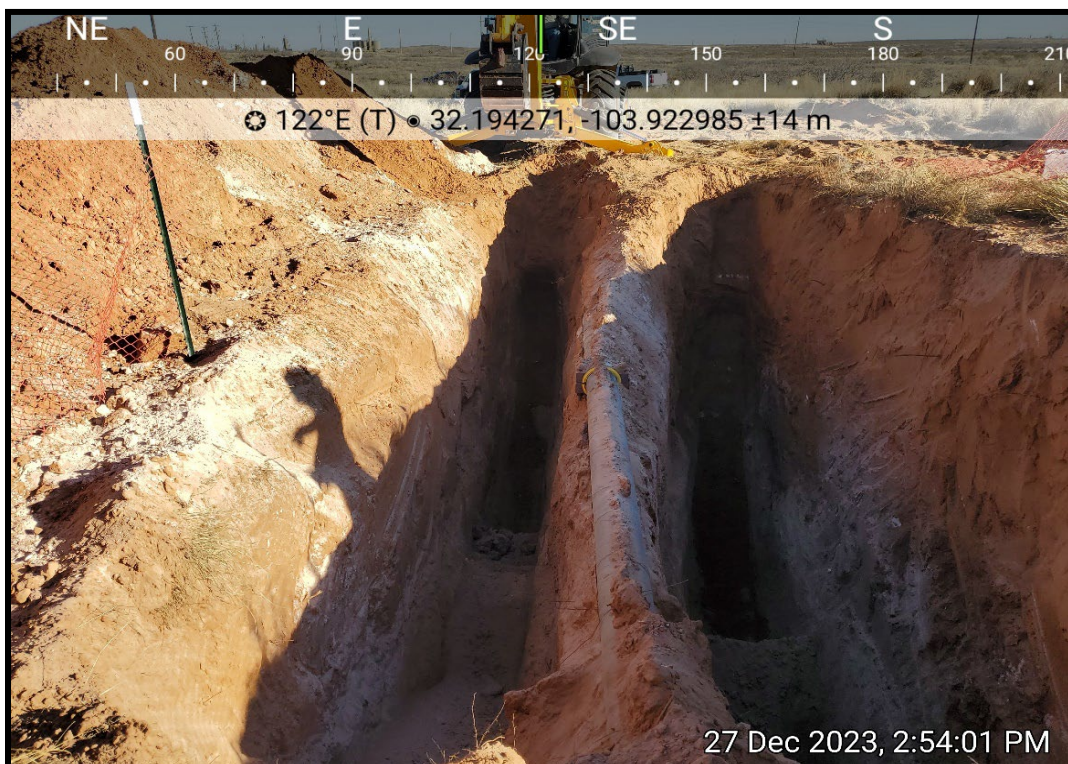
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text. Furthermore, as the conditions of use are beyond the control of Verde Environmental, Inc., it is the responsibility of the customer to determine the conditions of safe use of this preparation.



APPENDIX C

Photographic Documentation

Project: Trunk C Discharge
Entity: Enterprise Field Services, LLC
Ensolum Project #: 03B1226321
Incident ID: nAPP2333431605



Impacted area during remediation activities, facing east (12/27/2023).



Impacted area during remediation activities, facing southeast (12/29/2023).

Project: Trunk C Discharge
Entity: Enterprise Field Services, LLC
Ensolum Project #: 03B1226321
Incident ID: nAPP2333431605



Impacted area during remediation activities, facing west (01/18/2024).



Impacted area during remediation activities, facing north (01/18/2024).

Project: Trunk C Discharge
Entity: Enterprise Field Services, LLC
Ensolum Project #: 03B1226321
Incident ID: nAPP2333431605



Impacted area during excavation activities, facing northwest (02/26/2024).

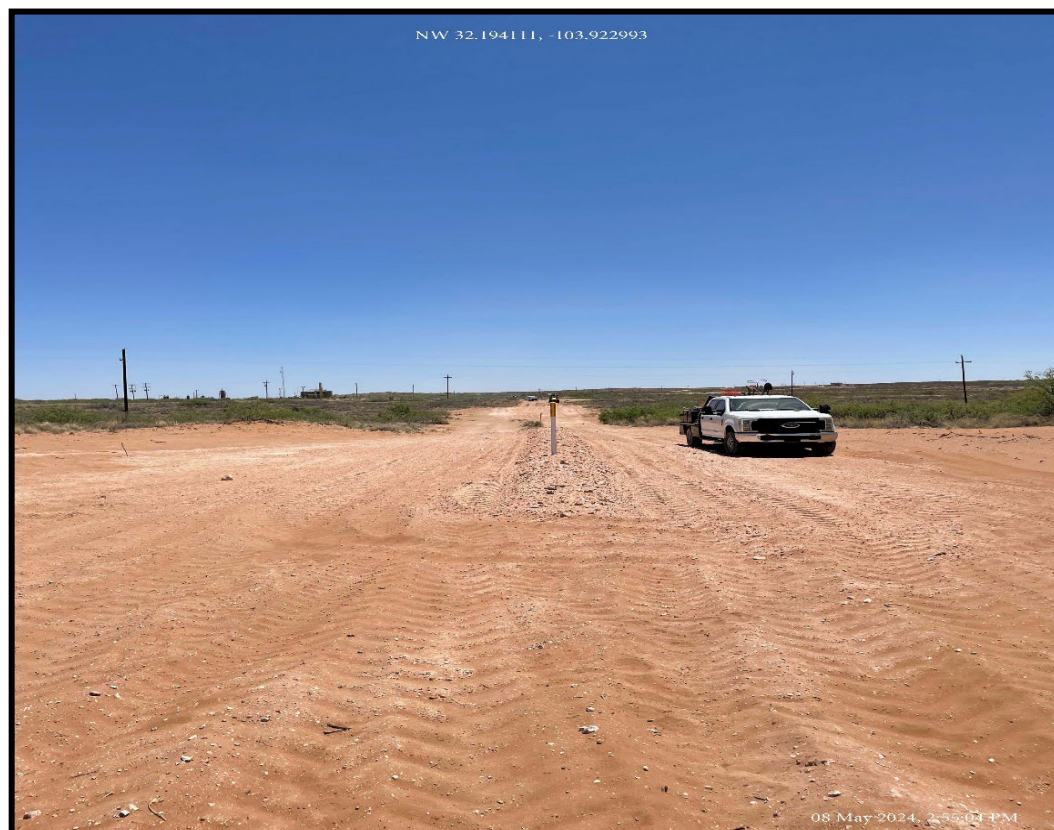


Impacted area during excavation activities, facing west (04/19/2024).

Project: Trunk C Discharge
Entity: Enterprise Field Services, LLC
Ensolum Project #: 03B1226321
Incident ID: nAPP2333431605



Impacted area during excavation activities, facing southeast (04/22/2024).



Impacted area after backfill and reseeding activities, facing northwest (05/08/2024).



APPENDIX D

Table


TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Trunk C (WMH-V4E) Trunk (109171)
 Enterprise Field Services, LLC
 Eddy County, New Mexico
 Ensolum Project No. 03B1226321

Sample Designation	Date	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
Composite Excavation Floor Soil Sample Analytical Results												
FS01	12/11/2023	4	0.10	1.2	0.90	4.8	7.0	250	100	300	650	370
	01/22/2024	14	<0.017	<0.034	<0.034	<0.068	<0.068	<3.4	<8.9	<45	<45	91
FS02	01/22/2024	14	<0.017	<0.033	<0.033	0.18	0.18	3.3	<8.8	<44	<44	66
FS03	01/29/2024	14	4.21	36.1	11.7	88.8	141	2,600	225	131	2,956	192
	02/26/2024	18	<0.050	<0.050	<0.050	<0.130	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS04	04/15/2024	5	<0.050	0.090	<0.050	0.249	0.339	<10.0	13.7	<10.0	13.7	64.0
FS05	04/15/2024	12	<0.050	2.11	1.82	21.3	25.3	368	85.6	53.2	507	80.0
	04/19/2024	20	NS					<10.0	<10.0	<10.0	<10.0	NS
FS06	04/29/2024	14	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Composite Excavation Sidewall Soil Sample Analytical Results												
SW01	12/11/2023	0 - 4	<0.076	<0.15	<0.15	0.41	0.41	27	46	210	283	470
	01/22/2024	0 - 14	<0.018	<0.037	<0.037	<0.073	<0.073	<3.7	<8.9	<45	<45	<60
SW02	01/22/2024	0 - 14	<0.020	<0.040	<0.040	<0.080	<0.080	<4.0	<9.3	<46	<46	<60
SW03	01/22/2024	0 - 14	<0.015	<0.030	<0.030	<0.060	<0.060	<3.0	<9.1	<45	<45	<60
SW04	01/22/2024	0 - 14	<0.077	1.9	0.82	6.8	9.5	160	29	<48	189	<60
	01/29/2024	0 - 14	<0.050	<0.050	<0.050	<0.150	<0.300	49.2	61.5	64.3	175	32.0
	02/26/2024	0 - 18	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW05	04/15/2024	0 - 5	<0.050	0.100	<0.050	0.319	0.419	<10.0	20.8	<10.0	20.8	80.0
SW06	04/15/2024	0 - 6	<0.050	0.844	0.414	3.12	4.38	49.0	38.5	<10.0	87.5	112
SW07	04/15/2024	0 - 12	<0.050	1.05	0.908	11.3	13.3	156	56.2	45.1	257	32.0
	04/22/2024	0 - 12	NS					<10.0	<10.0	<10.0	<10.0	NS
SW08	04/15/2024	0 - 12	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
	04/19/2024	12 - 20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
SW09	04/15/2024	0 - 12	<0.050	4.28	0.615	6.22	11.1	54.6	16.9	<10.0	71.5	48.0
	04/19/2024	12 - 20	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SW10	04/29/2024	0 - 7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	04/29/2024	7 - 14	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Trunk C (WMH-V4E) Trunk (109171)
 Enterprise Field Services, LLC
 Eddy County, New Mexico
 Ensolum Project No. 03B1226321

Sample Designation	Date	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
Delineation Soil Sample Analytical Results												
DS01	04/15/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS02	04/15/2024	0.25	<0.050	0.777	0.525	4.71	6.01	30.3	11.5	<10.0	41.8	16.0
DS03	04/15/2024	0.25	<0.050	0.184	0.163	1.81	2.16	59.2	42.9	45.1	147	112
	04/19/2024	0.25			NS			<10.0	<10.0	<10.0	<10.0	NS
DS04	04/15/2024	0.25	<0.050	0.547	0.051	0.393	0.991	<10.0	<10.0	<10.0	<10.0	48.0
DS05	04/15/2024	0.25	<0.050	0.131	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS06	04/15/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS07	04/15/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS08	04/15/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS09	04/29/2024	0 - 0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Composite Stockpile Soil Sample Analytical Results												
Stockpile	12/11/2023	NA	<0.082	<0.16	0.18	1.4	1.6	89	110	470	669	370
Stockpile	01/22/2024	NA	0.087	1.2	0.34	3.0	3.3	54	21	61	136	68
Stockpile	04/15/2024	NA	<0.050	6.74	2.08	16.7	25.6	200	49.8	23.4	273	32.0

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

 Additional Excavation and/or Re-Sample

bgs - below ground surface

mg/kg - milligrams per kilogram

NA - Not Applicable

NE - Not Established

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



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 28, 2023

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Trunk C WMH V4E Trunk 109171

OrderNo.: 2312729

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 12/13/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2312729

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: FS01

Project: Trunk C WMH V4E Trunk 109171

Collection Date: 12/11/2023 8:09:00 AM

Lab ID: 2312729-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	100	9.7		mg/Kg	1	12/13/2023 2:17:40 PM
Motor Oil Range Organics (MRO)	300	48		mg/Kg	1	12/13/2023 2:17:40 PM
Surr: DNOP	112	69-147		%Rec	1	12/13/2023 2:17:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	250	15		mg/Kg	5	12/14/2023 12:25:12 AM
Surr: BFB	375	15-244	S	%Rec	5	12/14/2023 12:25:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.10	0.077		mg/Kg	5	12/14/2023 12:25:12 AM
Toluene	1.2	0.15		mg/Kg	5	12/14/2023 12:25:12 AM
Ethylbenzene	0.90	0.15		mg/Kg	5	12/14/2023 12:25:12 AM
Xylenes, Total	4.8	0.31		mg/Kg	5	12/14/2023 12:25:12 AM
Surr: 4-Bromofluorobenzene	121	39.1-146		%Rec	5	12/14/2023 12:25:12 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	370	60		mg/Kg	20	12/13/2023 9:48:11 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2312729

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: SW01

Project: Trunk C WMH V4E Trunk 109171

Collection Date: 12/11/2023 8:11:00 AM

Lab ID: 2312729-002

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	46	9.6		mg/Kg	1	12/15/2023 10:12:27 AM
Motor Oil Range Organics (MRO)	210	48		mg/Kg	1	12/15/2023 10:12:27 AM
Surr: DNOP	97.9	69-147		%Rec	1	12/15/2023 10:12:27 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	27	15		mg/Kg	5	12/14/2023 12:49:11 AM
Surr: BFB	141	15-244		%Rec	5	12/14/2023 12:49:11 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.076		mg/Kg	5	12/14/2023 12:49:11 AM
Toluene	ND	0.15		mg/Kg	5	12/14/2023 12:49:11 AM
Ethylbenzene	ND	0.15		mg/Kg	5	12/14/2023 12:49:11 AM
Xylenes, Total	0.41	0.31		mg/Kg	5	12/14/2023 12:49:11 AM
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	5	12/14/2023 12:49:11 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	470	60		mg/Kg	20	12/13/2023 10:03:21 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312729
28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: MB-79363	SampType: MBLK			TestCode: EPA Method 300.0: Anions						
Client ID: PBS	Batch ID: 79363			RunNo: 101822						
Prep Date: 12/13/2023	Analysis Date: 12/13/2023			SeqNo: 3754014			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79363	SampType: LCS			TestCode: EPA Method 300.0: Anions						
Client ID: LCSS	Batch ID: 79363			RunNo: 101822						
Prep Date: 12/13/2023	Analysis Date: 12/13/2023			SeqNo: 3754015			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312729
28-Dec-23

Client: Ensolum LLC
Project: Trunk C WMH V4E Trunk 109171

Sample ID: 2312729-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS01	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754496		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	130	9.9	49.31	101.3	57.9	54.2	135			
Surr: DNOP	5.8		4.931		119	69	147			

Sample ID: 2312729-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS01	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754498		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	120	9.6	47.80	101.3	30.8	54.2	135	11.3	29.2	S
Surr: DNOP	5.2		4.780		108	69	147	0	0	

Sample ID: MB-79350	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754727		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	69	147			

Sample ID: LCS-79350	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754728		Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.5	61.9	130			
Surr: DNOP	4.5		5.000		90.9	69	147			

Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	E Above Quantitation Range/Estimated Value
H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
ND Not Detected at the Reporting Limit	P Sample pH Not In Range
PQL Practical Quantitative Limit	RL Reporting Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.	

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312729

28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752235		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	15	244			

- Qualifiers:
- *

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

- B

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312729
28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: 100NG BTEX LCS	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: BS101798	RunNo: 101798
Prep Date:	Analysis Date: 12/13/2023	SeqNo: 3752248 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene	0.90	0.025 1.000 0 89.9 70 130
Toluene	0.92	0.050 1.000 0 91.7 70 130
Ethylbenzene	0.92	0.050 1.000 0 92.5 70 130
Xylenes, Total	2.8	0.10 3.000 0 93.1 70 130
Surr: 4-Bromofluorobenzene	1.0	1.000 102 39.1 146

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: BS101798	RunNo: 101798
Prep Date:	Analysis Date: 12/13/2023	SeqNo: 3752249 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene	ND	0.025
Toluene	ND	0.050
Ethylbenzene	ND	0.050
Xylenes, Total	ND	0.10
Surr: 4-Bromofluorobenzene	1.0	1.000 101 39.1 146

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 52 of 147
Received by OCD: 7/12/2024 8:23:30 AM
Released to Imaging: 2/27/2025 9:23:47 AM



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC Work Order Number: 2312729 RcptNo: 1

Received By: Tracy Casarrubias 12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias 12/13/2023 8:28:33 AM

Reviewed By: 12/13/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:
(<2 or >12 unless noted)

Adjusted? ☐

Checked by: 12/13/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: City, state, and zip code on mailing address and clients date and time of relinquishment at _____

16. Additional remarks:

Date and time of client's relinquish signature does not match drivers

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 28, 2023

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Trunk C WMH V4E Trunk 109171

OrderNo.: 2312731

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/13/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", written in a cursive style.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2312731

Date Reported: 12/28/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Ensolum LLC

Client Sample ID: Stock Pile

Project: Trunk C WMH V4E Trunk 109171

Collection Date: 12/11/2023 10:02:00 AM

Lab ID: 2312731-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	110	93		mg/Kg	10	12/14/2023 5:22:31 AM
Motor Oil Range Organics (MRO)	470	460		mg/Kg	10	12/14/2023 5:22:31 AM
Surr: DNOP	0	69-147	S	%Rec	10	12/14/2023 5:22:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	89	16		mg/Kg	5	12/14/2023 1:13:09 AM
Surr: BFB	248	15-244	S	%Rec	5	12/14/2023 1:13:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.082		mg/Kg	5	12/14/2023 1:13:09 AM
Toluene	ND	0.16		mg/Kg	5	12/14/2023 1:13:09 AM
Ethylbenzene	0.18	0.16		mg/Kg	5	12/14/2023 1:13:09 AM
Xylenes, Total	1.4	0.33		mg/Kg	5	12/14/2023 1:13:09 AM
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	5	12/14/2023 1:13:09 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	370	60		mg/Kg	20	12/13/2023 10:18:31 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Page 1 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312731
28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: MB-79363	SampType: MBLK		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 79363		RunNo: 101822							
Prep Date: 12/13/2023	Analysis Date: 12/13/2023		SeqNo: 3754014		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79363	SampType: LCS		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 79363		RunNo: 101822							
Prep Date: 12/13/2023	Analysis Date: 12/13/2023		SeqNo: 3754015		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312731

28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: MB-79350	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754727	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		100	69	147			

Sample ID: LCS-79350	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79350	RunNo: 101833								
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754728	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	49	10	50.00	0	97.5	61.9	130			
Surr: DNOP	4.5		5.000		90.9	69	147			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312731

28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752235		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

% Recovery outside of standard limits. If undiluted results may be estimated.

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312731

28-Dec-23

Client: Ensolum LLC

Project: Trunk C WMH V4E Trunk 109171

Sample ID: 100NG BTEX LCS	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: BS101798			RunNo: 101798						
Prep Date:	Analysis Date: 12/13/2023			SeqNo: 3752248		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.92	0.050	1.000	0	91.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: BS101798			RunNo: 101798						
Prep Date:	Analysis Date: 12/13/2023			SeqNo: 3752249		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 60 of 147
Received by OCD: 7/12/2024 8:23:30 AM
Released to Imaging: 2/27/2025 9:23:47 AM



Environment Testin

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Ensolum LLC Work Order Number: 2312731 RcptNo: 1

Received By: Tracy Casarrubias 12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias 12/13/2023 8:35:50 AM

Reviewed By: 7/12/13/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: 7/12/13/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: City, state, and zip code on mailing address and clients date and time of relinquishment ar

16. Additional remarks:

Date and time of client's relinquish signature does not match drivers

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 30, 2024

Kelly Lowery
Ensolum LLC
601 Marrenfield #400
Midland, TX 79701
TEL: (214) 733-3165
FAX:

RE: Trunk CCWMH V4E Trunk 109171

OrderNo.: 2401924

Dear Kelly Lowery:

Eurofins Environment Testing South Central, LLC received 7 sample(s) on 1/24/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2401924

Date Reported: 1/30/2024

CLIENT: Ensolum LLC Client Sample ID: FS01
Project: Trunk CCWMH V4E Trunk 109171 Collection Date: 1/22/2024 9:36:00 AM
Lab ID: 2401924-001 Matrix: MEOH (SOIL) Received Date: 1/24/2024 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	1/24/2024 11:38:22 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/24/2024 11:38:22 AM
Surr: DNOP	89.5	69-147		%Rec	1	1/24/2024 11:38:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	1/24/2024 1:07:40 PM
Surr: BFB	105	15-244		%Rec	1	1/24/2024 1:07:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.017		mg/Kg	1	1/24/2024 1:07:40 PM
Toluene	ND	0.034		mg/Kg	1	1/24/2024 1:07:40 PM
Ethylbenzene	ND	0.034		mg/Kg	1	1/24/2024 1:07:40 PM
Xylenes, Total	ND	0.068		mg/Kg	1	1/24/2024 1:07:40 PM
Surr: 4-Bromofluorobenzene	90.1	39.1-146		%Rec	1	1/24/2024 1:07:40 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	91	60		mg/Kg	20	1/24/2024 12:41:25 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2401924**

Date Reported: 1/30/2024

CLIENT: Ensolum LLC

Client Sample ID: SW03

Project: Trunk CCWMH V4E Trunk 109171

Collection Date: 1/22/2024 9:53:00 AM

Lab ID: 2401924-005

Matrix: MEOH (SOIL)

Received Date: 1/24/2024 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	1/24/2024 12:26:17 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/24/2024 12:26:17 PM
Surr: DNOP	90.7	69-147		%Rec	1	1/24/2024 12:26:17 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	1/24/2024 2:42:46 PM
Surr: BFB	98.4	15-244		%Rec	1	1/24/2024 2:42:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.015		mg/Kg	1	1/24/2024 2:42:46 PM
Toluene	ND	0.030		mg/Kg	1	1/24/2024 2:42:46 PM
Ethylbenzene	ND	0.030		mg/Kg	1	1/24/2024 2:42:46 PM
Xylenes, Total	ND	0.060		mg/Kg	1	1/24/2024 2:42:46 PM
Surr: 4-Bromofluorobenzene	87.0	39.1-146		%Rec	1	1/24/2024 2:42:46 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	1/24/2024 2:12:17 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2401924
30-Jan-24

Client: Ensolum LLC
Project: Trunk CCWMH V4E Trunk 109171

Sample ID: MB-80070	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 80070	RunNo: 102655
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793184 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-80070	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 80070	RunNo: 102655
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793185 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 95.1 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401924

30-Jan-24

Client: Ensolum LLC

Project: Trunk CCWMH V4E Trunk 109171

Sample ID: MB-80061	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80061	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3792423			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.0		10.00		90.1	69	147			

Sample ID: LCS-80061	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80061	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3792424			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	61.9	130			
Surr: DNOP	4.3		5.000		85.7	69	147			

Sample ID: 2401924-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS01	Batch ID: 80061	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3792437			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	34	9.5	47.30	0	72.2	54.2	135			
Surr: DNOP	4.1		4.730		87.3	69	147			

Sample ID: 2401924-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS01	Batch ID: 80061	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3792438			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.43	0	86.7	54.2	135	16.4	29.2	
Surr: DNOP	4.0		4.643		86.1	69	147	0	0	

Sample ID: MB-80076	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 80076	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793415			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		84.6	69	147			

Sample ID: LCS-80076	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80076	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793416			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401924
30-Jan-24

Client: Ensolum LLC

Project: Trunk CCWMH V4E Trunk 109171

Sample ID: LCS-80076	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80076	RunNo: 102657								
Prep Date: 1/24/2024	Analysis Date: 1/24/2024	SeqNo: 3793416	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.4	69	147			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401924
30-Jan-24

Client: Ensolum LLC

Project: Trunk CCWMH V4E Trunk 109171

Sample ID: 2.5ug gro lcs	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS102647		RunNo: 102647							
Prep Date:	Analysis Date: 1/24/2024		SeqNo: 3792240		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.2	70	130			
Surr: BFB	2100		1000		214	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS102647		RunNo: 102647							
Prep Date:	Analysis Date: 1/24/2024		SeqNo: 3792241		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.1	15	244			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2401924
30-Jan-24

Client: Ensolum LLC

Project: Trunk CCWMH V4E Trunk 109171

Sample ID: 100ng btex lcs	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: BS102647	RunNo: 102647
Prep Date:	Analysis Date: 1/24/2024	SeqNo: 3792243 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene	0.91	0.025 1.000 0 90.9 70 130
Toluene	0.91	0.050 1.000 0 91.2 70 130
Ethylbenzene	0.92	0.050 1.000 0 92.2 70 130
Xylenes, Total	2.8	0.10 3.000 0 92.8 70 130
Surr: 4-Bromofluorobenzene	0.91	1.000 91.2 39.1 146

Sample ID: mb	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: BS102647	RunNo: 102647
Prep Date:	Analysis Date: 1/24/2024	SeqNo: 3792244 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Benzene	ND	0.025
Toluene	ND	0.050
Ethylbenzene	ND	0.050
Xylenes, Total	ND	0.10
Surr: 4-Bromofluorobenzene	0.89	1.000 89.0 39.1 146

Qualifiers:

- * Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Sample Log-In Check List

Client Name: Ensolum LLC

Work Order Number: 2401924

RcptNo: 1

Received By: Tracy Casarrubias 1/24/2024 7:15:00 AM

Completed By: Tracy Casarrubias 1/24/2024 8:03:41 AM

Reviewed By: *CME* 1/24/24Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

<2 or >12 unless noted)

Adjusted?

Checked by

*SCM 1/24/24*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via:

☐ eMail☐ Phone☐ Fax☐ In Person

Regarding:

Client Instructions:

Full mailing address is missing on COC- TMC 1/24/24

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.8	Good	Yes	Yogi		



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

January 30, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C (WMH - V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 01/29/24 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	01/30/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: SW 04 0'-14' (H240395-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2024	ND	1.85	92.6	2.00	7.25	
Toluene*	<0.050	0.050	01/29/2024	ND	1.96	97.9	2.00	6.36	
Ethylbenzene*	<0.050	0.050	01/29/2024	ND	1.96	97.8	2.00	6.18	
Total Xylenes*	<0.150	0.150	01/29/2024	ND	5.92	98.6	6.00	6.47	
Total BTEX	<0.300	0.300	01/29/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/30/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	49.2	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	61.5	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	64.3	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/29/2024	Sampling Date:	01/29/2024
Reported:	01/30/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY COUNTY, NM		

Sample ID: FS 03 14' (H240395-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	4.21	1.00	01/30/2024	ND	1.85	92.6	2.00	7.25	GC-NC1
Toluene*	36.1	1.00	01/30/2024	ND	1.96	97.9	2.00	6.36	
Ethylbenzene*	11.7	1.00	01/30/2024	ND	1.96	97.8	2.00	6.18	
Total Xylenes*	88.8	3.00	01/30/2024	ND	5.92	98.6	6.00	6.47	
Total BTEX	141	6.00	01/30/2024	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/30/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2600	10.0	01/30/2024	ND	203	101	200	13.5	
DRO >C10-C28*	225	10.0	01/30/2024	ND	203	102	200	4.70	
EXT DRO >C28-C36	131	10.0	01/30/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- GC-NC1 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

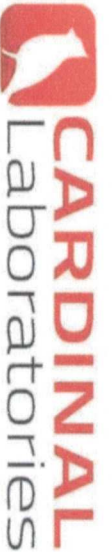
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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

February 29, 2024

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: TRUNK C (WMH-V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 02/26/24 14:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 KELLY LOWERY
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	02/26/2024	Sampling Date:	02/26/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH-V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B122G321	Sample Received By:	Dionica Hinojos
Project Location:	EDDY COUNTY, NM		

Sample ID: SW04 0 - 18' (H240922-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18	
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79	
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84	
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39	
Total BTEX	<0.300	0.300	02/28/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/28/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 81.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
KELLY LOWERY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received:	02/26/2024	Sampling Date:	02/26/2024
Reported:	02/29/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH-V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B122G321	Sample Received By:	Dionica Hinojos
Project Location:	EDDY COUNTY, NM		

Sample ID: FS03 18' (H240922-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/28/2024	ND	2.27	113	2.00	2.18		
Toluene*	<0.050	0.050	02/28/2024	ND	2.25	112	2.00	1.79		
Ethylbenzene*	<0.050	0.050	02/28/2024	ND	2.21	111	2.00	1.84		
Total Xylenes*	<0.150	0.150	02/28/2024	ND	6.67	111	6.00	1.39		
Total BTEx	<0.300	0.300	02/28/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	02/28/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/27/2024	ND	188	93.8	200	0.694	
DRO >C10-C28*	<10.0	10.0	02/27/2024	ND	186	93.2	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	02/27/2024	ND					

Surrogate: 1-Chlorooctane 80.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

April 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C (WMH - V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 04/15/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: FS 04 5 (H241972-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	
Toluene*	0.090	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	0.249	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	0.339	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	13.7	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: FS 05 12 (H241972-10)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	GC-NC
Toluene*	2.11	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	1.82	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	21.3	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	25.3	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 164 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/16/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	368	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	85.6	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	53.2	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 131 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: SW 05 0-5 (H241972-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	0.100	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	0.319	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTEX	0.419	0.300	04/15/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	20.8	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: SW 06 0-6 (H241972-12)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	
Toluene*	0.844	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	0.414	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	3.12	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	4.38	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/16/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	49.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	38.5	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 92.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: SW 07 0-12 (H241972-13)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	GC-NC
Toluene*	1.05	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	0.908	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	11.3	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	13.3	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 149 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	156	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	56.2	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	45.1	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: SW 08 0-12 (H241972-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	<0.050	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: SW 09 0-12 (H241972-15)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	GC-NC
Toluene*	4.28	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	0.615	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	6.22	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	11.1	0.300	04/15/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/16/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	54.6	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	16.9	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 97.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



Page 10 of 12



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

April 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C (WMH - V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 04/15/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 01 0.25 (H241972-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	
Toluene*	<0.050	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	<0.300	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/15/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/15/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 02 0.25 (H241972-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	
Toluene*	0.777	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	0.525	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	4.71	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	6.01	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	04/16/2024	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	30.3	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	11.5	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 99.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 03 0.25 (H241972-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	0.184	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	0.163	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	1.81	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTEX	2.16	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	59.2	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	42.9	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	45.1	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 04 0.25 (H241972-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	GC-NC
Toluene*	0.547	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	0.051	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	0.393	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	0.991	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 05 0.25 (H241972-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	0.131	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 06 0.25 (H241972-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	<0.050	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 07 0.25 (H241972-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	<0.050	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 95.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: DS 08 0.25 (H241972-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36		
Toluene*	<0.050	0.050	04/15/2024	ND	2.26	113	2.00	1.39		
Ethylbenzene*	<0.050	0.050	04/15/2024	ND	2.29	115	2.00	2.61		
Total Xylenes*	<0.150	0.150	04/15/2024	ND	6.84	114	6.00	2.25		
Total BTEX	<0.300	0.300	04/15/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 114 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/16/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	<10.0	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	<10.0	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO										ANALYSIS REQUEST															
Project Manager: Kelly Lowery		Company: <i>Enterprise</i>																											
Address: 601 N. Marland St. STE 400		Attn: <i>Robert Dumas</i>																											
City: Midland State: TX Zip: 79701		Address:																											
Phone #: 214-733-3165		City:																											
Project #: 03B1226321		State:																											
Project Name: Trunk C (WMH-VAE) Trunk (109171)		Zip:																											
Project Location: 32.194082, -103.923084		Phone #:																											
Email:																													
Sampler Name: Kaoru Shimada																													
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.					SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
<i>H241972</i>	<i>ES04</i>	<i>I</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1051</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>10</i>	<i>SV05</i>	<i>12</i>	<i>C1</i>	<i>1</i>										<i>1131</i>	<i>1131</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>11</i>	<i>SV05</i>	<i>0-6</i>	<i>C1</i>	<i>1</i>										<i>1131</i>	<i>1131</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>12</i>	<i>SV06</i>	<i>0-6</i>	<i>C1</i>	<i>1</i>										<i>1135</i>	<i>1135</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>13</i>	<i>SV04</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>1139</i>	<i>1139</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>14</i>	<i>SV08</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>1106</i>	<i>1106</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>15</i>	<i>SV09</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1102</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>N</i>	<i>FE</i>				<i>SV</i>									<i>4/15/24</i>	<i>1102</i>	<i>X</i>	<i>X</i>	<i>X</i>											
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All claims, including those for negligence and any other cause whatsoever, shall be limited to the amount paid by the client for the analyses.																													
In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By: <i>Kaoru Shimada</i>		Date: <i>4-15-24</i>		Received By: <i>Robert Dumas</i>																									
Relinquished By: <i>Kaoru Shimada</i>		Date: <i>4-15-24</i>		Received By: <i>Robert Dumas</i>																									
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <i>RD</i>																							
FORM-006 R 3.2 10/07/21		† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com		Thermometer ID: <i>440-#1140</i>		Correction Factor: <i>0.5°C</i>																							
		Remarks: <i>Paykey/AFF/CONF: N63481</i>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:																							
		All Results are emailed. Please provide Email address: <i>klowery@ensolum.com</i>																											



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST																																							
Project Manager: Kelly Lowery		Address: 601 N. Marland St. STE 400		Company: Enterprise																																									
City: Midland State: TX Zip: 79701		Attn: Robert Pennington		Address:																																									
Phone #: 214-733-3165		Email: klowery@ensolum.com		City:																																									
Project #: 03B1226321		Project Owner:		State:		Zip:																																							
Project Name: Trunk C (WMH-V4E) Trunk (109171)		Phone #:		Email:																																									
Project Location: 32.194082, -103.923084		Sample Name: Kaoru Shimada		Matrix:																																									
FOR LAB USE ONLY		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER : ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX 8021B		TPH 8015M		Chloride 4500											
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER : ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME		BTEX 8021B		TPH 8015M		Chloride 4500											
H341973		Stack Pile		NA		C1		X		X		X		X		X		X		X		X		X		4/15/24		1344		X		X		X											
NF		E		SK		APR 1		15		2024		11/11		11/11		11/11		11/11		11/11		11/11		11/11		11/11		11/11		11/11		11/11													
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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 17, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C (WMH - V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 04/15/24 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/15/2024	Sampling Date:	04/15/2024
Reported:	04/17/2024	Sampling Type:	Soil
Project Name:	TRUNK C (WMH - V4E) TRUNK (109171)	Sampling Condition:	Cool & Intact
Project Number:	03B1226321	Sample Received By:	Tamara Oldaker
Project Location:	32.194082, -103.923084		

Sample ID: STOCK PILE (H241972-16)

BTEx 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/15/2024	ND	2.09	105	2.00	1.36	GC-NC
Toluene*	6.74	0.050	04/15/2024	ND	2.26	113	2.00	1.39	
Ethylbenzene*	2.08	0.050	04/15/2024	ND	2.29	115	2.00	2.61	
Total Xylenes*	16.7	0.150	04/15/2024	ND	6.84	114	6.00	2.25	
Total BTEX	25.6	0.300	04/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	200	10.0	04/16/2024	ND	181	90.3	200	0.802	
DRO >C10-C28*	49.8	10.0	04/16/2024	ND	171	85.4	200	3.13	
EXT DRO >C28-C36	23.4	10.0	04/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO										ANALYSIS REQUEST															
Project Manager: Kelly Lowery		Company: <i>Enterprise</i>																											
Address: 601 N. Marland St. STE 400		Attn: <i>Robert Dumas</i>																											
City: Midland State: TX Zip: 79701		Address:																											
Phone #: 214-733-3165		City:																											
Project #: 03B1226321		State:																											
Project Name: Trunk C (WMH-VAE) Trunk (109171)		Zip:																											
Project Location: 32.194082, -103.923084		Phone #:																											
Email:																													
Sampler Name: Kaoru Shimada																													
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.					SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME														
<i>H241972</i>	<i>E504</i>	<i>I</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1051</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>10</i>	<i>F505</i>	<i>12</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1131</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>11</i>	<i>SVO3</i>	<i>0-5</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1131</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>12</i>	<i>SW06</i>	<i>0-6</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1135</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>13</i>	<i>SW04</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1139</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>14</i>	<i>SW08</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1106</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>15</i>	<i>SW09</i>	<i>0-12</i>	<i>C1</i>	<i>1</i>										<i>4/15/24</i>	<i>1102</i>	<i>X</i>	<i>X</i>	<i>X</i>											
<i>N</i>	<i>FE</i>				<i>SIX</i>									<i>4/15/24</i>	<i>1302</i>	<i>X</i>	<i>X</i>	<i>X</i>											
PLEASE NOTE: Liability and Damages: Cardinal's liability and client's evidence liability for any claim arising out of this report shall be limited to the amount paid by the client for the analyses.																													
All claims, including those for negligence and any other cause whatsoever, shall be limited to the amount paid by the client for the analyses.																													
In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																													
Relinquished By: <i>Kaoru Shimada</i>		Date: <i>4-15-24</i>		Received By: <i>Melissa Dumas</i>																									
Relinquished By: <i>Kaoru Shimada</i>		Date: <i>4-15-24</i>		Received By: <i>Melissa Dumas</i>																									
Delivered By: (Circle One)		Observed Temp. °C: <i>3.8</i>		Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact		CHECKED BY: <i>ase</i>																							
Sampler - Ups - Bus - Other:		Corrected Temp. °C		<input type="checkbox"/> No <input type="checkbox"/> Yes																									
FORM-006 R 3.2 10/07/21																													
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																													



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

[illegible]



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

April 22, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C (WMH - V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 04/19/24 13:41.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/19/2024
 Reported: 04/22/2024
 Project Name: TRUNK C (WMH - V4E) TRUNK (109171)
 Project Number: 03B1226321
 Project Location: 32.1940874, -103.9230931

Sampling Date: 04/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 20' (H242114-01)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	204	102	200	3.10	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	188	93.8	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

Sample ID: SW 08 12-20' (H242114-02)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2024	ND	2.17	108	2.00	4.09	
Toluene*	<0.050	0.050	04/19/2024	ND	2.10	105	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/19/2024	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/19/2024	ND	6.00	100	6.00	3.84	
Total BTX	<0.300	0.300	04/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/22/2024	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/19/2024
 Reported: 04/22/2024
 Project Name: TRUNK C (WMH - V4E) TRUNK (109171)
 Project Number: 03B1226321
 Project Location: 32.1940874, -103.9230931

Sampling Date: 04/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 08 12-20' (H242114-02)

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	204	102	200	3.10	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	188	93.8	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					
Surrogate: 1-Chlorooctane	102 %	48.2-134							
Surrogate: 1-Chlorooctadecane	116 %	49.1-148							

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 04/19/2024
 Reported: 04/22/2024
 Project Name: TRUNK C (WMH - V4E) TRUNK (109171)
 Project Number: 03B1226321
 Project Location: 32.1940874, -103.9230931

Sampling Date: 04/19/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 09 12-20' (H242114-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/19/2024	ND	2.17	108	2.00	4.09	
Toluene*	<0.050	0.050	04/19/2024	ND	2.10	105	2.00	3.93	
Ethylbenzene*	<0.050	0.050	04/19/2024	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	04/19/2024	ND	6.00	100	6.00	3.84	
Total BTX	<0.300	0.300	04/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/22/2024	ND	480	120	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/19/2024	ND	204	102	200	3.10	
DRO >C10-C28*	<10.0	10.0	04/19/2024	ND	188	93.8	200	6.19	
EXT DRO >C28-C36	<10.0	10.0	04/19/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

April 24, 2024

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: TRUNK C (WMH-V4E) TRUNK (109171)

Enclosed are the results of analyses for samples received by the laboratory on 04/23/24 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
KELLY LOWERY
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 04/23/2024
Reported: 04/24/2024
Project Name: TRUNK C (WMH-V4E) TRUNK (109171)
Project Number: 03B1226321
Project Location: ENTERPRISE- EDDY COUNTY, NM

Sampling Date: 04/22/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW07 0-12' (H242149-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/24/2024	ND	199	99.3	200	1.29	
DRO >C10-C28*	<10.0	10.0	04/24/2024	ND	213	107	200	4.32	
EXT DRO >C28-C36	<10.0	10.0	04/24/2024	ND					
Surrogate: 1-Chlorooctane	97.0 %	48.2-134							
Surrogate: 1-Chlorooctadecane	102 %	49.1-148							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celej.Keene@cardinallabsnm.com

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

May 01, 2024

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: TRUNK C TRUNK

Enclosed are the results of analyses for samples received by the laboratory on 04/29/24 15:44.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:Reported:
01-May-24 17:04

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW - 10 7 - 14'	H242276-01	Soil	29-Apr-24 08:30	29-Apr-24 15:44
SW - 10 0 - 7'	H242276-02	Soil	29-Apr-24 08:48	29-Apr-24 15:44
FS - 06 14'	H242276-03	Soil	29-Apr-24 09:20	29-Apr-24 15:44
DS - 09 0 - .25'	H242276-04	Soil	29-Apr-24 09:16	29-Apr-24 15:44

05/01/24 - Client changed the project name (see COC). This is the revised report and will replace the one sent on 04/30/24.

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

SW - 10 7 - 14'
H242276-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	16.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042938	JH	29-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042938	JH	29-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042938	JH	29-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042938	JH	29-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042938	JH	29-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			117 %	71.5-134		4042938	JH	29-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	

Surrogate: 1-Chlorooctane			103 %	48.2-134		4042935	MS	30-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			97.1 %	49.1-148		4042935	MS	30-Apr-24	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

SW - 10 0 - 7'**H242276-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042938	JH	30-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			118 %		71.5-134	4042938	JH	30-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042935	MS	30-Apr-24	8015B	

Surrogate: 1-Chlorooctane			101 %		48.2-134	4042935	MS	30-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			95.7 %		49.1-148	4042935	MS	30-Apr-24	8015B	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

FS - 06 14'
H242276-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	32.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4042938	JH	30-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	122 %	71.5-134	4042938	JH	30-Apr-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B

Surrogate: 1-Chlorooctane	96.8 %	48.2-134	4042939	MS	30-Apr-24	8015B
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Surrogate: 1-Chlorooctadecane	95.6 %	49.1-148	4042939	MS	30-Apr-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

DS - 09 0 - .25'**H242276-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	<16.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4042938	JH	30-Apr-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4042938	JH	30-Apr-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			113 %		71.5-134	4042938	JH	30-Apr-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4042939	MS	30-Apr-24	8015B	

Surrogate: 1-Chlorooctane			75.4 %		48.2-134	4042939	MS	30-Apr-24	8015B	
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Surrogate: 1-Chlorooctadecane			73.6 %		49.1-148	4042939	MS	30-Apr-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: TRUNK C TRUNK Project Number: 03B1226321 Project Manager: BEAUX JENNINGS Fax To:	Reported: 01-May-24 17:04
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Inorganic Compounds - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 4043011 - 1:4 DI Water									
Blank (4043011-BLK1)				Prepared & Analyzed: 30-Apr-24					
Chloride	ND	16.0	mg/kg						
LCS (4043011-BS1)				Prepared & Analyzed: 30-Apr-24					
Chloride	432	16.0	mg/kg	400		108 80-120			
LCS Dup (4043011-BSD1)				Prepared & Analyzed: 30-Apr-24					
Chloride	400	16.0	mg/kg	400		100 80-120	7.69	20	

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042938 - Volatiles**Blank (4042938-BLK1)**

Prepared & Analyzed: 29-Apr-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0568		mg/kg	0.0500		114	71.5-134			

LCS (4042938-BS1)

Prepared & Analyzed: 29-Apr-24

Benzene	2.15	0.050	mg/kg	2.00		108	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.36	0.050	mg/kg	2.00		118	85.9-128			
m,p-Xylene	4.82	0.100	mg/kg	4.00		121	89-129			
o-Xylene	2.41	0.050	mg/kg	2.00		120	86.1-125			
Total Xylenes	7.23	0.150	mg/kg	6.00		120	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0564		mg/kg	0.0500		113	71.5-134			

LCS Dup (4042938-BSD1)

Prepared & Analyzed: 29-Apr-24

Benzene	2.17	0.050	mg/kg	2.00		109	82.8-130	0.826	15.8	
Toluene	2.12	0.050	mg/kg	2.00		106	86-128	3.70	15.9	
Ethylbenzene	2.24	0.050	mg/kg	2.00		112	85.9-128	5.10	16	
m,p-Xylene	4.47	0.100	mg/kg	4.00		112	89-129	7.53	16.2	
o-Xylene	2.25	0.050	mg/kg	2.00		112	86.1-125	6.84	16.7	
Total Xylenes	6.72	0.150	mg/kg	6.00		112	88.2-128	7.30	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0537		mg/kg	0.0500		107	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042935 - General Prep - Organics**Blank (4042935-BLK1)**

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.5	48.2-134		
Surrogate: 1-Chlorooctadecane	42.4		mg/kg	50.0		84.8	49.1-148		

LCS (4042935-BS1)

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	200	10.0	mg/kg	200		100	66.4-123		
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118		
Total TPH C6-C28	408	10.0	mg/kg	400		102	77.6-123		
Surrogate: 1-Chlorooctane	52.6		mg/kg	50.0		105	48.2-134		
Surrogate: 1-Chlorooctadecane	47.3		mg/kg	50.0		94.6	49.1-148		

LCS Dup (4042935-BS1)

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	193	10.0	mg/kg	200		96.7	66.4-123	3.37	17.7
DRO >C10-C28	191	10.0	mg/kg	200		95.3	66.5-118	8.75	21
Total TPH C6-C28	384	10.0	mg/kg	400		96.0	77.6-123	6.08	18.5
Surrogate: 1-Chlorooctane	51.9		mg/kg	50.0		104	48.2-134		
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		93.9	49.1-148		

Batch 4042939 - General Prep - Organics**Blank (4042939-BLK1)**

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	41.1		mg/kg	50.0		82.3	48.2-134		
Surrogate: 1-Chlorooctadecane	40.5		mg/kg	50.0		81.0	49.1-148		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: TRUNK C TRUNK
Project Number: 03B1226321
Project Manager: BEAUX JENNINGS
Fax To:

Reported:
01-May-24 17:04

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4042939 - General Prep - Organics**LCS (4042939-BS1)**

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	207	10.0	mg/kg	200		103	66.4-123			
DRO >C10-C28	212	10.0	mg/kg	200		106	66.5-118			
Total TPH C6-C28	419	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.8	48.2-134			
Surrogate: 1-Chlorooctadecane	47.5		mg/kg	50.0		95.0	49.1-148			

LCS Dup (4042939-BS1)

Prepared & Analyzed: 29-Apr-24

GRO C6-C10	205	10.0	mg/kg	200		102	66.4-123	0.918	17.7	
DRO >C10-C28	208	10.0	mg/kg	200		104	66.5-118	2.14	21	
Total TPH C6-C28	413	10.0	mg/kg	400		103	77.6-123	1.53	18.5	
Surrogate: 1-Chlorooctane	45.5		mg/kg	50.0		91.1	48.2-134			
Surrogate: 1-Chlorooctadecane	46.8		mg/kg	50.0		93.5	49.1-148			

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 363536

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2333431605
Incident Name	NAPP2333431605 TRUNK C DISCHARGE @ 0
Incident Type	Natural Gas Release
Incident Status	Remediation Closure Report Received
Incident Facility	[fAPP2122928745] Enterprise Carlsbad GS

Location of Release Source	
Please answer all the questions in this group.	
Site Name	TRUNK C DISCHARGE
Date Release Discovered	11/30/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Natural Gas 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	Not answered.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Cause: Corrosion Pipeline (Any) Condensate Released: 5 BBL Recovered: 0 BBL Lost: 5 BBL.
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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Phone: (505) 476-3441

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

QUESTIONS, Page 2

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	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)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
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: Thomas Long Title: Sr Field Environmental Scientist Email: tjlong@eprod.com Date: 12/05/2023
--	---

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS, Page 3

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	363536
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	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (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	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	470
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	2956
GRO+DRO (EPA SW-846 Method 8015M)	2825
BTEX (EPA SW-846 Method 8021B or 8260B)	141
Benzene (EPA SW-846 Method 8021B or 8260B)	4.2

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	12/11/2023
On what date will (or did) the final sampling or liner inspection occur	04/29/2024
On what date will (or was) the remediation complete(d)	04/29/2024
What is the estimated surface area (in square feet) that will be reclaimed	36504
What is the estimated volume (in cubic yards) that will be reclaimed	1352
What is the estimated surface area (in square feet) that will be remediated	36504
What is the estimated volume (in cubic yards) that will be remediated	1352

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: David Feather Title: Contractor Email: dfeather@eprod.com Date: 07/12/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	363536
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	337504
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/30/2024
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	2000

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	36504
What was the total volume (cubic yards) remediated	1352
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	36504
What was the total volume (in cubic yards) reclaimed	1352
Summarize any additional remediation activities not included by answers (above)	On April 8, 2024, NMR and Enterprise arrived on-site to apply a microbial solution, Micro-Blaze, to the newly excavated section of the Trunk C (WMH-V4E) Trunk Pipeline to help promote bioremediation of the COCs in soils left in place. The safety data sheet (SDS) for the microbial solution is provided in Appendix B.

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: David Feather Title: Contractor Email: dfeather@eprod.com Date: 07/12/2024
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QUESTIONS, Page 7

Action 363536

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	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

Action 363536

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 363536
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2333431605 TRUNK C DISCHARGE, thank you. This Remediation Closure Report is approved.	2/27/2025