

### **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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David McInnis Project Geologist

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Heather Holthaus Senior Project Manager



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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



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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
	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
≤ 50 feet	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg

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	Pa	age 3

	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 collected two composite soil samples from the excavation floor (FS01 and FS02) and four composite soil sample 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<sup>®</sup>, 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 SM4500CI-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

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(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 distrbution 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

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- 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.

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### 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







Eddy County, New Mexico

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### ENSOLUM Environmental, Engineering and Hydrogeologic Consultants

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



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## APPENDIX B

**Supporting Documentation** 

### Gas Loss Calcuations Trunk C Discahrge

### Release Parameters:

Pipeline Purging Calculation Diameter of leak (inches) Operating Pressure PSIA Duration of Leak ( Days) % Natural Gas Total Gas Loss Emission Factors:	<u>1</u> 0.0833 794 0.04 5.29 100 5.29	MCF (Gas Loss)
gm-Moles/scf	1.263	
gm/lbs	454	
<u>Components(Mol%)</u> 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) Avg MW(Total)	0.07 41.33	
Avg MW(VOC)	44.66	
Avg (1000)	44.00	
BTU/SCF	2344.70	
Gas Loss 5.2890995136 MCF	Emissions to Atmosphere <u>VOC (LBS)</u> 563.31	

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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

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Action 291095

QUESTIONS

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

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.						

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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** (continued)

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

QUESTIONS

Initial Response

The source of the release has been stopped

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.										

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 ol 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.							

True

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

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

QUESTIONS, Page 2

Action 291095

**District I** 

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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** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	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 elease discovery date. What is the shallowest depth to groundwater beneath the area affected by the Between 26 and 50 (ft.) release in feet below ground surface (ft bgs) 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 1/2 (mi.) Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark) Between 1000 (ft.) and 1/2 (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 Greater than 5 (mi.) for domestic or stock watering purposes Any other fresh water well or spring Between 1/2 and 1 (mi.) Incorporated municipal boundaries or a defined municipal fresh water well field Greater than 5 (mi.) A wetland Between 1000 (ft.) and 1/2 (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.

Page 19eof 147

Action 291095

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

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

#### CONDITIONS

Created By		Condition Date
scwells	None	12/5/2023

CONDITIONS

Action 291095

From:Dunaway, RobertTo:Kelly LowerySubject:FW: Extension Request, nAPP2333431605Date:Thursday, February 8, 2024 2:15:37 PMAttachments:image003.png

### **\*\*EXTERNAL EMAIL\*\***

For the final report.

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



From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Thursday, February 8, 2024 1:14 PM
To: Dunaway, Robert <rhdunaway@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 <<u>Robert.Hamlet@emnrd.nm.gov</u>>
Cc: Bratcher, Michael, EMNRD <<u>mike.bratcher@emnrd.nm.gov</u>>
Subject: FW: [EXTERNAL] Extension Request, nAPP2333431605

From: Dunaway, Robert <<u>rhdunaway@eprod.com</u>>
Sent: Thursday, February 8, 2024 9:51 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Feather, David <<u>DFeather@eprod.com</u>>
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 | rhdunaway@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 <rhdunaway@eprod.com></rhdunaway@eprod.com>
Sent:	Wednesday, April 24, 2024 12:11 PM
То:	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" <rhdunaway@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!9 phmFqZZP36gITJX1ccEw6FWLgHU0dNW-qCV0EIGJ\_1oxItrdTYsfjcv6RCV78a4tTZs87QTD-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 <rhdunaway@eprod.com<mailto:rhdunaway@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 rhdunaway@eprod.com<mailto:rhdunaway@eprod.com> [image003.png]

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.

		<sup>,</sup> Mexico Offic <b>nt of Dive</b>	U U	•	
		(quarters are 1=NW 2=NE (quarters are smallest to la	,	(NAD83 UTM in meters)	
Well Tag	POD Number	Q64 Q16 Q4 Sec 7	ws Rng	X Y	
	C 02109	1 2 4 19 2	24S 30E	602130 3563412 🌍	
Driller Lice Driller Nan		Driller Company:			
Drill Start I	Date:	Drill Finish Date:	12/31/196.	3 Plug Date:	
Log File Da	ite:	PCW Rcv Date:		Source:	
Pump Type	:	Pipe Discharge Size:		<b>Estimated Yield:</b>	40 GPM
<b>Casing Size</b>	: 7.00	Depth Well:	130 feet	<b>Depth Water:</b>	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, 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 count	ty_cd Alti	tude_ft alt_datum_cd	well_depth_va g	gw_count_nu	lev_dt	lev_va x	У
USGS	3.21205E+1	4 24S.30E.19.42113	32.2015121	-103.9135416	5 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

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



### 1. IDENTIFICATION OF THE SUBSTANCE

### Product identifier

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

### Recommended use of the chemical and restrictions on use

Recommended Use: Uses advised against: Fire Fighting/Bioremediation 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 1-713-691-6468 1-800-424-9300 (Chemtrec) 24 hours every day

Emergency Telephone Number:

Information Telephone Number:

### 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		
<u>Hazard statements</u>		
May cause an allergic skin react	ion	
Causes serious eye irritation		
May be harmful if swallowed		
$\mathbf{\wedge}$		
•		
•		
Appearance: Opaque	Physical State: Liquid	Odor: Slight fermentation odor



#### **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 Oganic Materials	1.0 - 3.0
Additives	0.1 - 0.8
Polysaccharide Xanthum Gum	0.1 <

## Note: Micro-Blaze Out<sup>®</sup> does <u>not</u> contain PFOS, PFAS or any other fluorosurfactant



### 4. FIRST AID MEASURES

<u>First aid measures</u>		
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

<b>Personal Precautions</b>	Ensure adequate ventilation	
Environmental precautions		
<b>Environmental Precautions</b>	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	



### 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
<b>Respiratory protection</b>	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 Appearance Odor Odor Threshold

Property pH Melting/freezing point Evaporation rate VALUE Flammability (solid, gas) Burning rate 100mm VALUE Vapor pressure Vapor density Specific gravity Water solubility Liquid Tan, Opaque Pleasant (perfume) No information available

## Values

7.0 - 8.0freeze at 0°C/32°F No information available Not flammable No information available No information available No information available No information available 99%



Solubility in other solvents Partition Coefficient (n-octanol/water) Autoignition temperature Decomposition temperature Viscosity of product Viscosity Explosive properties Oxidizing properties

Other Information Softening Point VOC Content Density No information available No information available

No information available No information available No information available

### **10. STABILITY AND REACTIVITY**

Reactivity No data available

<u>Chemical stability</u> 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



#### Information on toxicological effects

Symptoms

No information available

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

Sensitization	Μ
Mutagenic Effects	No
Reproductive Effects	Ne
Specific target organ systemic toxicity	Ne
Aspiration hazard	No

May cause sensitization of susceptible persons To information available To information available To information available To information available

### **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

None known

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

<u>Waste treatment methods</u> 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

Date Issued: 22nd January, 2021



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**

Tizution	
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



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.
required by the CPK.

### **16. OTHER INFORMATION**

<b>Revision date:</b>	01.22.2021
<b>Revision Summary</b>	

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
#### Receiged by OCD: 7/12/2024 8:23:30 AM

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



**E** E N S O L U M

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



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

Receined by OCD: 7/12/2024 8:23:30 AM=

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

# **East Elevation**

**E** N S O L U M



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



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

#### Receined by OCD: 7/12/2024 8:23:30 AM

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



**E** N S O L U M

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



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

#### Receined by OCD: 7/12/2024 8:23:30 AM=

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



Page 40 of 147

E N S O L U M

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

E N S O L U M

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
F501	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
F303	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
F305	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
				Compo	site Excavation Si	idewall Soil Sa	mple Analytical	Results				
SW01	12/11/2023	0 - 4	<0.076	<0.15	<0.15	0.41	0.41	27	46	210	283	470
0001	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
	01/22/2024	0 - 14	<0.077	1.9	0.82	6.8	9.5	160	29	<48	189	<60
SW04	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
01100	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

<0.150

<0.150

< 0.300

< 0.300

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

<10.0

04/29/2024

04/29/2024

SW10

.

< 0.050

< 0.050

0 - 7

7 - 14

< 0.050

< 0.050

< 0.050

< 0.050

32.0

16.0

Received by OCD: 7/12/2024 8:23:30 AM

ENSOLUM

Total TPH

(GRO+DRO+MRO)

(mg/kg)

100

				s	SOIL SAMPLE Trunk C (WM Enterpris Eddy C		nk (109171) es, LLC lexico	ſS
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TF (
New Mexico Oil Criteria for S	Conservation D Soils Impacted b (≤ 50 feet)		10	NE	NE	NE	50	
					Delineation So	il Sample Anal	tical Results	

		(mg/kg)	(mg/kg)	
NE	NE	NE	50	
	Delineation So	il Sample Analy	tical Results	

**TPH GRO** 

(mg/kg)

NE

TPH DRO

(mg/kg)

NE

**TPH MRO** 

(mg/kg)

NE

#### 32.0 DS01 04/15/2024 0.25 < 0.050 < 0.050 < 0.050 < 0.150 < 0.300 <10.0 <10.0 <10.0 <10.0 0.525 4.71 6.01 30.3 11.5 41.8 16.0 DS02 04/15/2024 0.25 < 0.050 0.777 <10.0 59.2 42.9 45.1 147 112 04/15/2024 0.25 < 0.050 0.184 0.163 1.81 2.16 DS03 NS 04/19/2024 0.25 <10.0 <10.0 <10.0 <10.0 NS 0.547 0.051 0.393 0.991 48.0 04/15/2024 0.25 < 0.050 <10.0 <10.0 <10.0 <10.0 DS04 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 < 0.300 <10.0 <10.0 <10.0 16.0 < 0.150 <10.0 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** 0.18 470 669 370 Stockpile 12/11/2023 NA < 0.082 < 0.16 1.4 1.6 89 110 0.087 1.2 0.34 3.0 3.3 54 21 61 136 68 Stockpile 01/22/2024 NA NA 6.74 2.08 16.7 25.6 200 49.8 23.4 273 32.0 Stockpile 04/15/2024 < 0.050

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

Re

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

Chloride

(mg/kg)

600



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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

DGH

12/13/2023 2:17:40 PM

12/13/2023 2:17:40 PM

**Analytical Report** 

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312729

Date Reported: 12/28/2023

CLIENT:	Ensolum LLC			Client	San	ple ID:	FS01			
<b>Project:</b>	Trunk C WMH V4E Trunk 1091	71		Colle	ctio	n Date:	12/11	/2023 8	8:09:00 AN	Л
Lab ID:	2312729-001	Matrix: M	EOH (SOIL)	Rec	eive	d Date:	12/13	/2023 7	7:50:00 AN	Л
Analyses		Res	ult 1	RL Qu	ıal	Units	DF	Daf	te Analyze	ed
EPA MET	EPA METHOD 8015M/D: DIESEL RANGE ORGANICS Analyst:									

100

300

9.7

48

mg/Kg

mg/Kg

1

1

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. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

Toluene

Chloride

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312729

Date Reported: 12/28/2023

12/14/2023 12:49:11 AM

12/14/2023 12:49:11 AM

12/14/2023 12:49:11 AM

12/14/2023 12:49:11 AM

12/13/2023 10:03:21 PM

Analyst: SNS

CLIENT: Ensolum LLC		Client S	Sample ID:	SW01	
Project: Trunk C WMH V4E Trunk 1	09171	Collec	ction Date:	12/11/	2023 8:11:00 AM
Lab ID: 2312729-002	Matrix: MEOH (S	OIL) Rece	ived Date:	12/13/	2023 7:50:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	GE 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 RAI	NGE				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

ND

ND

0.41

104

470

0.15

0.15

0.31

60

39.1-146

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

5

5

5

5

20

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value J
- Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Hall Envi	Hall Environmental Analysis Laboratory, Inc.						
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: <b>mg/Kg</b>	
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	
	SampType: LCS Batch ID: <b>79363</b>	TestCode: EPA Method RunNo: 101822	300.0: Anions	
Client ID: LCSS			300.0: Anions Units: mg/Kg	
Client ID: LCSS	Batch ID: <b>79363</b> Analysis Date: <b>12/13/2023</b>	RunNo: 101822		RPDLimit Qual

Qualifiers:

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

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, In

Page 49 of 147	Page	<b>49</b>	of 147
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	WO#:	2312729	
ooratory, Inc.		28-Dec-23	

Client: Project:	Ensolum I Trunk C V		E Trunk	x 109171							
Sample ID:	2312729-001AMS	SampT	Гуре: МS	5	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID:	FS01	Batch	h ID: 793	350	F	RunNo: <b>10</b>	)1833				
Prep Date:	12/13/2023	Analysis D	Date: 12	2/13/2023	S	SeqNo: 37	54496	Units: mg/K	g		
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	SampT	Гуре: МS	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	FS01	Batch	h ID: 793	350	F	RunNo: <b>1(</b>	)1833				
Prep Date:	12/13/2023	Analysis E	Date: 12	2/13/2023	S	SeqNo: 37	54498	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Drganics (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	SampT	Гуре: <b>МЕ</b>	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	h ID: 793	350	F	RunNo: <b>1(</b>	)1833				
Prep Date:	12/13/2023	Analysis E	Date: 12	2/13/2023	S	SeqNo: 37	54727	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (	Organics (DRO)	ND	10								
-	e Organics (MRO)	ND	50								
Surr: DNOP		10		10.00		100	69	147			
Sample ID:	LCS-79350	SampT	Гуре: <b>LC</b>	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	h ID: 793	350	F	RunNo: <b>1(</b>	)1833				
Prep Date:	12/13/2023	Analysis D	Date: 12	2/13/2023	S	SeqNo: 37	754728	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	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 Quanitative 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

	WO#:	2312729
Iall Environmental Analysis Laboratory, Inc.		28-Dec-23

Client:EnsolumProject:Trunk C	ULC WMH V4	E Trunk	109171							
Sample ID: 2.5UG GRO LCS	SampT	Гуре: <b>LC</b>	s	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batcl	h ID: GS	101798	F	RunNo: <b>1(</b>	01798				
Prep Date:	Analysis I	Date: 12	/13/2023	S	SeqNo: 37	752235	Units: <b>mg/k</b>	٢g		
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	SampT	Гуре: МЕ	LK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batcl	h ID: <b>GS</b>	101798	F	RunNo: <b>1(</b>	01798				
Prep Date:	Analysis [	Date: 12	/13/2023	S	SeqNo: 37	752237	Units: <b>mg/k</b>	٤g		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

2312729	WO#:
28-Dec-23	

# Client:Ensolum LLCProject:Trunk C WMH V4E Trunk 109171

Sample ID: 100NG BTEX LCS	Somo		e	Too	tCodo: EI		0004 D. Valati	laa		
		Type: LC					8021B: Volati	les		
Client ID: LCSS	Batc	h ID: <b>BS</b>	101798	F	RunNo: <b>1(</b>	01798				
Prep Date:	Analysis [	Date: 12	/13/2023	S	SeqNo: 37	752248	Units: mg/K	g		
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			
	1.0		1.000		102	55.1	140			
Sample ID: mb		Гуре: МВ		Tes			8021B: Volati	les		
	Samp	Гуре: <b>МВ</b> h ID: <b>BS</b>	ILK			PA Method		les		
Sample ID: mb	Samp	h ID: BS	ILK	F	tCode: EF	PA Method				
Sample ID: mb Client ID: PBS	Samp <sup>-</sup> Batc	h ID: BS	3LK 101798	F	tCode: EF RunNo: 10	PA Method	8021B: Volati		RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date:	Samp <sup>-</sup> Batc Analysis [	h ID: <b>BS</b> Date: <b>12</b>	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte	Samp Batc Analysis I Result	h ID: BS Date: 12 PQL	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: mb Client ID: PBS Prep Date: Analyte Benzene	Samp Batc Analysis I Result ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte Benzene Toluene	Samp <sup>-</sup> Batc Analysis I Result ND ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025 0.050	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual

Qualifiers:

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- B Analyte detected in the associated Method Blank
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- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

🔅 eurofins Env	ironment 1	estin TEI	L: 505-345-3		entral, LLC Hawkins NE . NM 87109 5-345-4107	San	nple Log-In Che	eck List
Client Name: Ensolum LL	с	Work	Order Num	ber: 23127	29		RcptNo: 1	
Received By: Tracy Case	arrubias	12/13/20	023 7:50:00	) AM				
Completed By: Tracy Case	arrubias	12/13/2	023 8:28:33	3 AM				
Reviewed By: ついに	13)23							
Chain of Custody								
1. Is Chain of Custody compl	ete?			Yes [		No 🗹	Not Present	
2. How was the sample delive	ered?			Courie	<u>r</u>			
Log In 3. Was an attempt made to c	ool the sample	es?		Yes		No 🗌		
4. Were all samples received	at a temperat	ure of >0° C i	to 6.0°C	Yes 🖸		No 🗌		
5. Sample(s) in proper contain	ner(s)?			Yes		No 🗌		
6. Sufficient sample volume for	or indicated te	st(s)?		Yes 🔽		No 🗌		
7. Are samples (except VOA a	and ONG) pro	perly preserve	ed?	Yes 🔽	2	No 🗌		
8. Was preservative added to	bottles?			Yes 🗌	]	No 🗹	NA 🗌	
9. Received at least 1 vial with	headspace <	<1/4" for AQ V	'OA?	Yes [	]	No 🗌		
10. Were any sample containe	rs received br	oken?		Yes [	]	No 🗹	# of preserved bottles checked	
11. Does paperwork match bot (Note discrepancies on cha				Yes 🖌	2	No 🗌	for pH: (<2 or >12	2 unless noted)
12. Are matrices correctly ident	ified on Chain	of Custody?		Yes 🔽	_	No 🗌	Adjusted?	
13. Is it clear what analyses we	-	)		Yes 🔽		No 🗌		era alala
14. Were all holding times able (If no, notify customer for a				Yes 🔽		No 🛄	Checked by:	en 12/13/2
Special Handling (if app	licable)							
15. Was client notified of all di	screpancies w	ith this order?	1	Yes [		No 🗌	NA 🗹	
Person Notified:			Date	: [				
By Whom:		an an a' a' an Alana an an	Via:	🗌 eMail	Phone	e 🗌 Fax	In Person	
Regarding:								
	City.state, and	d zip code on	mailing add	Iress and cli	ents date a	nd time of	relinguishment ar	
16. Additional remarks: Date and time of clie	nt's relinquish	signature do	es not meto	h drivers				
17. <u>Cooler Information</u>	nto reiniquisti	Signature 00	sa not mate	II UIIVEIS				
Cooler No Temp °C	Condition	Seal Intact	Seal No	Seal Date	e Sig	ned By		
1 5.5	Good	Yes	Yogi					

Released to Imaging: 2/27/2025 9:23:47 AM

Page 52 of 147

# Released to Imaging: 2/27/2025 9:23:47 AM

8 If necessary, samples submitted to Hall Environmental may be setocontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-

Received by OC	1-01-Cu	Received by OCD: 7/12/20124 8:23:30 AM Chain-of-Custody Record		Turn-Around Time:	ime:				HAL	-	N	IR		NTA	AL	f 147
Client: Ensol	Ensolum, LLC			Standard	K Rush	2 thours		П	N N	Ę	SIS	2	ANALYSIS LABORATORY		R	
				Project Name:	5	MH-V45) Trunic (189171)			www	haller	www.hallenvironmental.com	nental	com			
Mailing Address:		601 N. Marienfeld St. Suit	Suite 400				49(	4901 Hawkins NE -	kins N		∍nbnql	srque,	Albuquerque, NM 87109			
				Project #:			Tel.	1. 505-3	505-345-3975	75	Fax {	505-3	505-345-4107			
Phone #: 21	214-733-3165	10		4201 - 165L	1			-		Ana	Analysis kequest	Yedu			-	
email or Fax#:		klowery@ensolum.com		Project Manager:	ger: Kelly Lowery	owery	_	ę	Ş	os	-					
QA/QC Package:	ö	Level 4 (Full Validation)	lidation)					5 PCB	SWISO	"bO4"						
Accreditation:	□ Az Co □ Other			Sampler: S Oň lče:	SK I Yes	No Ucq	RO / DI	(1.408 808\se	0 or 82				Prese			
D EDD (Type)				# of Coolers:	ndere føb	>										
				Cooler Temp (including CF): 4	histeding CFJ:5.4	+01: 5.5.				_						
Date Time	Matrix	Sample Name	Depth	Container Type and #	Preservative Type	2312329				(ci)⊧' всвъ	8560	8570	16101			
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Date: Time:	Relinquished by:	hed by:	K	Received by:	Via:	Date Time	Remarks:		Bill to: Tom Long Email: filona@en	om Loi	anord .	800				
	d'	the the	2	CULANA	Ain .	14/12/23 0702		រយិ	Enterprise Field Services,		d Serv		LLC			
Date: Time:	<u> </u>	hed by:		Received by:	VIB.COUNCY		-			~	N163481	184				
ad bil salalin	er L			R		(7/0/7/	Paykey/AFE/NonAFE:	AP-EUX	ONAFE ontracted	10	he clear	rlv notat	will be clearly notated on the analytical report	cal repor	 	]



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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312731

Date Reported: 12/28/2023

CLIENT:	Ensolum LLC		(
<b>Project:</b>	Trunk C WMH V4E Trunk 109	171	
Lab ID:	2312731-001	Matrix:	MEOH (SOIL)

Client Sample ID: Stock Pile Collection Date: 12/11/2023 10:02:00 AM

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					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: <b>JJP</b>
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. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 1 of 5

Ensolum LLC

**Client:** 

**Qualifiers:** 

\* D

Н

ND

PQL

S

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

Value exceeds Maximum Contaminant Level.

Holding times for preparation or analysis exceeded

Sample Diluted Due to Matrix

Practical Quanitative Limit

Not Detected at the Reporting Limit

Project:	Trunk	C WMH V4H	E Trunk	x 109171							
Sample ID:	MB-79363	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	ID: 793	363	F	RunNo: <b>1(</b>	01822				
Prep Date:	12/13/2023	Analysis D	ate: 12	/13/2023	S	SeqNo: 37	754014	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-79363	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch	ID: 793	363	F	RunNo: <b>1(</b>	01822				
Prep Date:	12/13/2023	Analysis D	ate: 12	/13/2023	S	SeqNo: 37	754015	Units: mg/K	g		
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			

- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

WO#: 2312731 28-Dec-23

Page	57	of	14	7
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2312731

WO#:

Hall Environment	al Analy	sis La	aborato	ory, Inc.						28-Dec-23
Client: Ensolun Project: Trunk C	n LLC C WMH V4E	E Trunk	x 109171							
Sample ID: MB-79350	SampTy	ype: MB	BLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 793	350	F	RunNo: <b>1(</b>	01833				
Prep Date: 12/13/2023	Analysis Da	ate: 12	/13/2023	Ş	SeqNo: 37	754727	Units: mg/K	g		
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	SampT	ype: LC	s	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 793	350	F	RunNo: <b>1(</b>	01833				
Prep Date: 12/13/2023	Analysis Da	ate: 12	/13/2023	Ş	SeqNo: 37	754728	Units: mg/K	g		
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 Quanitative 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 3 of 5

Ensolum LLC

**Client:** 

# QC SUMMARY REPORT Hall Er

Page	58	of 147

	WO#:	2312731
Environmental Analysis Laboratory, Inc.		28-Dec-23

Project: Trunk C	WMH V4	E Trunk	x 109171							
Sample ID: 2.5UG GRO LCS	Samp	Гуре: <b>LC</b>	S	Tes	tCode: El	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batcl	h ID: GS	101798	F	RunNo: 10	01798				
Prep Date:	Analysis I	Date: 12	/13/2023	S	SeqNo: 3	752235	Units: <b>mg/#</b>	(g		
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: <b>mb</b>	Samp	Гуре: <b>МЕ</b>	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range	)	
Client ID: PBS	Batcl	h ID: <b>GS</b>	101798	F	RunNo: 10	01798				
Prep Date:	Analysis [	Date: 12	2/13/2023	S	SeqNo: 3	752237	Units: mg/k	(g		
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 4 of 5

Released to Imaging: 2/27/2025 9:23:47 AM

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	2312731
	28-Dec-23

# Client:Ensolum LLCProject:Trunk C WMH V4E Trunk 109171

Sample ID: 100NG BTEX LCS	Samp	Type: LC	s	Tes	tCode: EF	A Method	8021B: Volati	les		
Client ID: LCSS	Batc	h ID: <b>BS</b>	101798	F	RunNo: <b>1(</b>	)1798				
Prep Date:	Analysis I	Date: 12	/13/2023	S	SeqNo: 37	752248	Units: mg/K	g		
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			
					400	00.4	4.40			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			
Surr: 4-Bromofluorobenzene Sample ID: mb		Туре: <b>МВ</b>		Tes			146 8021B: Volati	les		
	Samp	Type: <b>MB</b> h ID: <b>BS</b>	BLK			PA Method		les		
Sample ID: mb	Samp	h ID: BS	BLK	F	tCode: EF	PA Method				
Sample ID: <b>mb</b> Client ID: <b>PBS</b>	Samp <sup>-</sup> Batc	h ID: BS	BLK 101798	F	tCode: EF RunNo: 10	PA Method	8021B: Volati		RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date:	Samp <sup>-</sup> Batc Analysis I	h ID: <b>BS</b> Date: <b>12</b>	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte	Samp Batc Analysis I Result	h ID: <b>BS</b> Date: <b>12</b> PQL	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte Benzene	Samp Batc Analysis I Result ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	RPDLimit	Qual
Sample ID: <b>mb</b> Client ID: <b>PBS</b> Prep Date: Analyte Benzene Toluene	Samp Batc Analysis I Result ND ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025 0.050	BLK 101798 /13/2023	F	tCode: EF RunNo: 10 SeqNo: 37	PA Method 8 01798 752249	8021B: Volati Units: mg/K	g	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 Quanitative 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 5 of 5

Released to Imaging: 2/27/2025 9:23:47 AM

Environment Testin	4901	Central, LLC Hawkins NE ve, NM 87109 505-345-4107	ample Log-In Cheo	ck List
Client Name: Ensolum LLC	Work Order Number: 2312	731	RcptNo: 1	
Received By: Tracy Casarrubias 12	2/13/2023 7:50:00 AM			
Completed By: Tracy Casarrubias 12	2/13/2023 8:35:50 AM			
Reviewed By: 7412/13/23				
Chain of Custody				
1. Is Chain of Custody complete?	Yes	□ No 2	Not Present	
2. How was the sample delivered?	Couri	er		
Log In 3. Was an attempt made to cool the samples?	Yes	✓ No [		
4. Were all samples received at a temperature of	>0° C to 6.0°C Yes	✓ No [		
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 p				
8. Was preservative added to bottles?	Yes	No No		
9. Received at least 1 vial with headspace <1/4" fo	r AQ VOA? Yes	□ No [	NA ☑	
0. Were any sample containers received broken?	Yes	□ No 8	✓ # of preserved bottles checked	
11.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes	✓ No [	for pH:	unless noted)
2. Are matrices correctly identified on Chain of Cus	stody? Yes	✓ No [	Adjusted?	
3. Is it clear what analyses were requested?	Yes	✓ No [		10 1
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>	Yes	✓ No [	Checked by:	14
Special Handling (if applicable)			7	
15. Was client notified of all discrepancies with this	order? Yes	No No		
Person Notified:	Date:			
By Whom:	Via: 📋 eMa	ail 🔲 Phone 🗌	Fax In Person	
Regarding:				

•

Released to Imaging: 2/27/2025 9:23:47 AM

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

Page 60 of 147

# Released to Imaging: 2/27/2025 9:23:47 AM

ly sub-contracted data will be clearly notated on the analytical report.
other accredited laboratories. This serves as notice of this possibility. An
If necessary, samples submitted to Hall Environmental may be subcontracted to

•

Received by OCD: 7/12/2024 8:23:30 AM Chain-of-Custody Record	Turn-Around Time:	Page 61 of 147
Client: Ensolum, LLC		ANALYSIS LABORATORY
	Project Name: Frank C (WMA-V4E) frank(C 01 L 7U)	www.hallenvironmental.com
Mailing Address: 601 N. Marienfeld St. Suite 400		4901 Hawkins NE - Albuquerque, NM 87109
	Project #:	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 214-733-3165	Ø5P1216321	Analysis Request
email or Fax#: klowery@ensolum.com	Project Manager: Kelly Lowery	*OS
QA/QC Package:		3's (802 , PO₄, 5 , PO₄, 5 , PO₄, 5
1: D Az Con	Sampler: 5K Oh lice: 15 Yes 10 1100	70 / Df 8/808/s 504.1) 01 827 8 3, NO <sub>2</sub> 8 3, NO <sub>2</sub>
ype)	olers: 1	)(Gł pod ( 310 s10 s10 s10 s10 s10 s10 s10 s10 s10 s
	Cooler Templisidualing CFI: 5.4 + 0.1 ; S.S.	0155 2esti by 8 by 8 by 8 by 8 by 8 by 8 by 8
Date Time Matrix Sample Name Der	Container Preservative HEAL No. Type and # Type 2312731	8270 ( 8260 ( РАН5 РАН5 РАН5 ВО81 F РАН5 ВО81 F РАН5
in the soil Stark Pile	T Tar	X X
Date: Time: Relinquished by:	Received by: Via: Date Time	Remarks: Bill to: Tom Long
	3	Enterprise Field Services, LLC
Date: Time: Relinquished by:	via: councer use	
MANANA IN PULLING	12/18/15/18/19/19/19/19/19/19/19/19/19/19/19/19/19/	register of this most billing any subcontracted data will be clearly notated on the analytical report.



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

RE: Trunk CCWMH V4E Trunk 109171

OrderNo.: 2401924

Dear Kelly Lowery:

FAX:

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,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

**EPA METHOD 8021B: VOLATILES** 

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

Benzene

Toluene

Chloride

Ethylbenzene

Xylenes, Total

**Analytical Report** 

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

1

1

1

1

1

20

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

mg/Kg

Date Reported: 1/30/2024

Analyst: JJP

Analyst: SNS

1/24/2024 1:07:40 PM

1/24/2024 12:41:25 PM

CLIENT:	Ensolum LLC		Client S	ample ID:	FS01			
Project:	Trunk CCWMH V4E Trunk 109	Operation         Collection Date: 1/22/2024 9:36:00 AM						
Lab ID:	2401924-001	Matrix: MEOH (S	SOIL) Rece	ived Date:	1/24/2	2024 7:15:00 AM		
Analyses		Result	RL Qua	al Units	DF	Date Analyzed		
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: <b>JKU</b>		
Diesel R	ange Organics (DRO)	ND	8.9	mg/Kg	1	1/24/2024 11:38:22 AM		
Motor Oi	l Range Organics (MRO)	ND	45	mg/Kg	1	1/24/2024 11:38:22 AM		
Surr: I	DNOP	89.5	69-147	%Rec	1	1/24/2024 11:38:22 AM		
EPA ME	THOD 8015D: GASOLINE RANGE	E				Analyst: JJP		
Gasoline	Range Organics (GRO)	ND	3.4	mg/Kg	1	1/24/2024 1:07:40 PM		
Surr: E	BFB	105	15-244	%Rec	1	1/24/2024 1:07:40 PM		

ND

ND

ND

ND

90.1

91

0.017

0.034

0.034

0.068

60

39.1-146

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

Page 1 of 12

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

CLIENT:	Ensolum LLC		Client S	ample ID:	FS02	
Project:	Trunk CCWMH V4E Trunk	109171	Collec	tion Date:	1/22/2	2024 9:50:00 AM
Lab ID:	2401924-002	Matrix: MEOH (S	SOIL) Rece	ived Date:	1/24/2	2024 7:15:00 AM
Analyses		Result	RL Qua	al Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: <b>JKU</b>
Diesel R	ange Organics (DRO)	ND	8.8	mg/Kg	1	1/24/2024 11:50:19 AM
Motor Oi	l Range Organics (MRO)	ND	44	mg/Kg	1	1/24/2024 11:50:19 AM
Surr: I	DNOP	88.8	69-147	%Rec	1	1/24/2024 11:50:19 AM

EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	3.3	3.3	mg/Kg	1	1/24/2024 1:31:28 PM
Surr: BFB	133	15-244	%Rec	1	1/24/2024 1:31:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.017	mg/Kg	1	1/24/2024 1:31:28 PM
Toluene	ND	0.033	mg/Kg	1	1/24/2024 1:31:28 PM
Ethylbenzene	ND	0.033	mg/Kg	1	1/24/2024 1:31:28 PM
Xylenes, Total	0.18	0.066	mg/Kg	1	1/24/2024 1:31:28 PM
Surr: 4-Bromofluorobenzene	93.9	39.1-146	%Rec	1	1/24/2024 1:31:28 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	66	60	mg/Kg	20	1/24/2024 1:26:50 PM

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 2 of 12

# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

Analyst: JKU

<b>CLIENT</b> :	Ensolum LLC		Client Sa	mple ID:	SW01	
Project:	Trunk CCWMH V4E Trunk 109	171	Collecti	on Date:	1/22/2	2024 9:34:00 AM
Lab ID:	2401924-003	Matrix: MEOH (SOIL	) Receiv	ed Date:	1/24/2	2024 7:15:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
EPA ME	THOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst:
Diesel R	ange Organics (DRO)	ND	8.9	mg/Kg	1	1/24/2024 12:02:2

Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	1/24/2024 12:02:20 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/24/2024 12:02:20 PM
Surr: DNOP	88.0	69-147	%Rec	1	1/24/2024 12:02:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	1/24/2024 1:55:16 PM
Surr: BFB	107	15-244	%Rec	1	1/24/2024 1:55:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.018	mg/Kg	1	1/24/2024 1:55:16 PM
Toluene	ND	0.037	mg/Kg	1	1/24/2024 1:55:16 PM
Ethylbenzene	ND	0.037	mg/Kg	1	1/24/2024 1:55:16 PM
Xylenes, Total	ND	0.073	mg/Kg	1	1/24/2024 1:55:16 PM
Surr: 4-Bromofluorobenzene	91.6	39.1-146	%Rec	1	1/24/2024 1:55:16 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/24/2024 1:41:59 PM

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

Analys						201		OD 8015M/D: DIESEL RANG	тио	
e Analyzed	7 Da	DF	Jnits	Qual U	RL	Result	ŀ			Analyses
15:00 AM	4/2024 7	1/24/	Date:	eceived	]	: MEOH (SOIL)	Matrix:	401924-004	24	Lab ID:
41:00 AM	2/2024 9	1/22/	Date:	llection	С		109171	Frunk CCWMH V4E Trunk 10	Tr	Project:
	02	SW0	le ID:	nt Samp	Clie			Ensolum LLC	: En	CLIENT:

EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/24/2024 12:14:18 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/24/2024 12:14:18 PM
Surr: DNOP	91.6	69-147	%Rec	1	1/24/2024 12:14:18 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.0	mg/Kg	1	1/24/2024 2:19:02 PM
Surr: BFB	106	15-244	%Rec	1	1/24/2024 2:19:02 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.020	mg/Kg	1	1/24/2024 2:19:02 PM
Toluene	ND	0.040	mg/Kg	1	1/24/2024 2:19:02 PM
Ethylbenzene	ND	0.040	mg/Kg	1	1/24/2024 2:19:02 PM
Xylenes, Total	ND	0.080	mg/Kg	1	1/24/2024 2:19:02 PM
Surr: 4-Bromofluorobenzene	89.3	39.1-146	%Rec	1	1/24/2024 2:19:02 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	1/24/2024 1:57:08 PM

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix

- D Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

Analyst: JKU

CLIENT:	Ensolum LLC		Client Sa	mple ID:	SW0	3
Project:	Trunk CCWMH V4E Trunk 109	171	Collecti	on Date:	1/22/	2024 9:53:00 AM
Lab ID:	2401924-005	Matrix: MEOH (SOIL	) Receiv	ed Date:	1/24/	2024 7:15:00 AM
Analyses		Result	RL Qual	Units	DF	Date Analyzed
	HOD 8015M/D: DIESEL RANGE		RL Qual	Units	DF	Date Analyzed Analyst:

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. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range Reporting Limit

RL

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

CLIENT:	Ensolum LLC		(	Client Sample ID: SW04
<b>Project:</b>	Trunk CCWMH V4E Trunk 109	9171		Collection Date: 1/22/20
Lab ID:	2401924-006	Matrix:	MEOH (SOIL)	Received Date: 1/24/20
-				

ction Date: 1/22/2024 9:55:00 AM

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: JKU
Diesel Range Organics (DRO)	29	9.6		mg/Kg	1	1/24/2024 12:38:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	1/24/2024 12:38:23 PM
Surr: DNOP	88.6	69-147		%Rec	1	1/24/2024 12:38:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	160	15		mg/Kg	5	1/25/2024 1:25:36 AM
Surr: BFB	274	15-244	S	%Rec	5	1/25/2024 1:25:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.077		mg/Kg	5	1/25/2024 1:25:36 AM
Toluene	1.9	0.15		mg/Kg	5	1/25/2024 1:25:36 AM
Ethylbenzene	0.82	0.15		mg/Kg	5	1/25/2024 1:25:36 AM
Xylenes, Total	6.8	0.31		mg/Kg	5	1/25/2024 1:25:36 AM
Surr: 4-Bromofluorobenzene	99.1	39.1-146		%Rec	5	1/25/2024 1:25:36 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	1/24/2024 2:27:26 PM

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

**Qualifiers:** 

\* Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

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# Hall Environmental Analysis Laboratory, Inc.

Lab Order 2401924

Date Reported: 1/30/2024

CLIENT:	Ensolum LLC		Client Sample ID: Stock	ĸ
Project:	Trunk CCWMH V4E Trunk 109	171	Collection Date: 1/22/	2024 11:14:00 AM
Lab ID:	2401924-007	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 OF	GANICS					Analyst: <b>JKU</b>
Diesel Range Organics (DRO)	21	9.7		mg/Kg	1	1/24/2024 12:50:31 PM
Motor Oil Range Organics (MRO)	61	49		mg/Kg	1	1/24/2024 12:50:31 PM
Surr: DNOP	90.8	69-147		%Rec	1	1/24/2024 12:50:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	54	3.2		mg/Kg	1	1/25/2024 1:49:25 AM
Surr: BFB	439	15-244	S	%Rec	1	1/25/2024 1:49:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.087	0.016		mg/Kg	1	1/25/2024 1:49:25 AM
Toluene	1.2	0.032		mg/Kg	1	1/25/2024 1:49:25 AM
Ethylbenzene	0.34	0.032		mg/Kg	1	1/25/2024 1:49:25 AM
Xylenes, Total	3.0	0.065		mg/Kg	1	1/25/2024 1:49:25 AM
Surr: 4-Bromofluorobenzene	109	39.1-146		%Rec	1	1/25/2024 1:49:25 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	68	60		mg/Kg	20	1/24/2024 2:42:35 PM

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

**Qualifiers:** 

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 7 of 12

Ensolum LLC

**Client:** 

Project:	Trunl	CCWMH V4	E Trun	ık 109171							
Sample ID:	MB-80070	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	PBS	Batch	ID: 80	070	F	RunNo: <b>1(</b>	02655				
Prep Date:	1/24/2024	Analysis D	ate: 1/	24/2024	S	SeqNo: 37	793184	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID: I	LCS-80070	SampT	ype: LC	S	Tes	tCode: EF	PA Method	300.0: Anions	6		
Client ID:	LCSS	Batch	ID: 80	070	F	RunNo: <b>1(</b>	02655				
Prep Date:	1/24/2024	Analysis D	ate: 1/	24/2024	S	SeqNo: 37	793185	Units: mg/K	g		
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
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е
- J
- Р
- RL
- Above Quantitation Range/Estimated Value
- Analyte detected below quantitation limits
- Sample pH Not In Range
  - Reporting Limit

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WO#: 2401924 30-Jan-24

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc

AKI KEPURI	WO#:	2401924	
nental Analysis Laboratory, Inc.		30-Jan-24	

Client: Ensolum Project: Trunk CC	LLC CWMH 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) Surr: DNOP	ND 50 9.0 10.00	90.1 69 147
	9.0 10.00	90.1 09 147
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		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: <b>102657</b>
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
<b>)</b>		

#### 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 Quanitative 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

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<b>v</b>		WO#: <b>2401924</b>
Hall Env	vironmental Analysis Laboratory, Inc.	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	CSS Batch ID: 80076				RunNo: <b>10</b>	)2657				
Prep Date:	1/24/2024	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. \*
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- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- В Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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Released to Imaging: 2/27/2025 9:23:47 AM
Ensolum LLC

**Client:** 

**Project:** 

## **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Trunk CCWMH V4E Trunk 109171

Sample ID: 2.5ug gro Ics	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gasol	line Range	1	
Client ID: LCSS	Batch	n ID: GS	102647	F	RunNo: 10	02647				
Prep Date:	Analysis D	ate: 1/2	24/2024	Ş	SeqNo: 3	792240	Units: mg/K	g		
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			
				TestCode: EPA Method 8015D: Gasoline Range						
Sample ID: <b>mb</b>	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range	!	
Sample ID: <b>mb</b> Client ID: <b>PBS</b>	•	ype: ME			tCode: <b>EF</b> RunNo: <b>1</b> 0		8015D: Gasol	line Range	1	
•	•	D: GS		F		02647	8015D: Gasol Units: mg/K	U	1	
Client ID: PBS	Batch	D: GS	5102647 24/2024	F	RunNo: 10	02647		U	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date:	Batch Analysis D	n ID: <b>GS</b> Date: <b>1/</b> 2	5102647 24/2024	F	RunNo: 11 SeqNo: 3	)2647 792241	Units: <b>mg/K</b>	g		Qual

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

WO#: 2401924 30-Jan-24

Ensolum LLC

**Client:** 

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Project: Trunk C	CWMH V4	4E Trun	ık 109171							
Sample ID: 100ng btex Ics	Samp7	Type: LC:	S	Tes	stCode: El	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batcl	h ID: BS	102647	F	RunNo: 10	02647				
Prep Date:	Analysis D	Date: <b>1/</b> 2	24/2024	ę	SeqNo: 37	792243	Units: <b>mg/K</b>	(g		
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	Samp	Туре: <b>МВ</b>	JLK	Tes	stCode: El	PA Method	8021B: Volati	iles		
Client ID: PBS	Batcl	h ID: BS	102647	F	RunNo: <b>1(</b>	02647				
Prep Date:	Analysis D	Date: <b>1/</b> 2	24/2024	Ş	SeqNo: 37	792244	Units: <b>mg/K</b>	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: <b>mb</b>	SampT	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les	
Client ID: PBS	Batcl	h ID: BS	102647	F	RunNo: <b>1(</b>	02647			
Prep Date:	Analysis [	Date: 1/2	24/2024	S	SeqNo: 37	792244	Units: <b>mg/K</b>	g	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
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
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

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WO#: 2401924

30-Jan-24

# 🔅 eurofins

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#### 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 Num	ber: 2401924		RcptNo: 1
Received By: Tracy Casarrubias 1/24/2024 7:15:00			
Completed By: Tracy Casarrubias 1/24/2024 8:03:41	AM		
Reviewed By: CMC 1/24/24			
hain of Custody			
Is Chain of Custody complete?	Yes	No 🗹	Not Present
How was the sample delivered?	<u>Courier</u>		
Log In			
. Was an attempt made to cool the samples?	Yes 🗹	No 🗌	
. Were all samples received at a temperature of $>0^{\circ}$ C to $6.0^{\circ}$ C	Yes 🗹	No 🗌	
. Sample(s) in proper container(s)?	Yes 🗹	No 🗌	
Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌	
Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	
. Was preservative added to bottles?	Yes	No 🔽	NA 🗌
. Received at least 1 vial with headspace <1/4" for AQ VOA?	Yes	No 🗌	NA M
). Were any sample containers received broken?	Yes	No 🗹	# of preserved
1. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No 🗌	bottles checked for pH: <2 or >12 unless noted)
2. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?
3. Is it clear what analyses were requested?	Yes 🗹	No 🗌	L CCM 1/24
<ol> <li>Were all holding times able to be met? (If no, notify customer for authorization.)</li> </ol>	Yes 🗹	No 🗌	Checked by Cfil 174
pecial Handling (if applicable)			·
5. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🗹
Person Notified: Date			
By Whom: Via:	eMail 🗌 F	Phone 🗌 Fax	In Person
Regarding:			
Client Instructions: Full mailing address is missing on COC	C- TMC 1/24/24		
<ol><li>Additional remarks:</li></ol>			
7. Cooler Information			
Cooler No Temp °C Condition Seal Intact Seal No	Seal Date	Signed By	
1 0.8 Good Yes Yogi			

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Client:	Ensolum, LLC	n, LLC			- Standard	🗹 Rush	24hours	П				YS.		AB(	HALL ENVIKONMENTAL ANALYSIS LABORATORY		12	
					Project Name:						ww.hal	lenvir	onmen	www.hallenvironmental.com				
Mailing	Mailing Address:		601 N. Marienfeld St. Suite 400	suite 400			WMH-14E)Trunk (091	(12)	1901 F	lawkin	s NE -	Albu	dnerdr	4901 Hawkins NE - Albuquerque, NM 87109	87109			
					Project #:				Tel. 5(	05-345	Tel. 505-345-3975	Fax	x 505	505-345-4107	107			
Phone #:		214-733-3165	10		O3B122632,	632)					4	nalys	Analysis Request	luest				
email or Fax#:	Fax#:	klowery	klowery@ensolum.com		Project Manager:	ger: Kelly Lowery	wery	-	(0)			<sup>*</sup> O		(ìu				1
QA/QC Package:	Jackage:		T avel 4 (Eull Validation)	Validation)							SWIS	S '≯Od		əsdA\t				
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					Cooler Temp (including CF):	including CFM 0, 9	-0.1=0.8%											
Date	Time	Matrix	Sample Name	e Depth	Container Type and #	Preservative Type	HEAL No.	RX318	08(H9) 9 1808	edb (M	A SHA9 S AADA	CI) L'E	V) 0728 2) 0728	O letoT				
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14/201	f necessary,	samples sul	Ibmitted to Hall Environm	ental may be sub	eontracted to other a	scredited laboratories	If necessary, samples submitted to Hall Environmental may be subeontracted to other secredited Taboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	s possibili	by. Any s	ub-contri	acted data	will be o	learly not	ated on th	ie analytical	report.		7



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	01/30/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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-NC
Surrogate: 4-Bromofluorobenzene (PID	125	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

	1 DO Fatto I East Marland, Hobi 575) 393-2326 FAX ( Isolum, LLC Solum, LLC Solum, LLC Solution, Solution, So	a DO rato ries 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Ensolum, LLC Ensolum, LLC Colument Colument Marienfeld Street, Suite 400 Marienfeld Street, Suite 400 Marienfeld Street, Suite 400 State: TX Zi -773-7165 Fax #: 1226 32. 1/VMK ( WMH - VHE) T	240 276 276 21p: 79701 7 Munk (109(171)	bert bu	<b>N</b> in qual		ANALYSIS REQUEST
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Lab I.D. Sar	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: JCE / COOL OTHER : DATE	TIME BTEX 802	TPH Solf Chiorides 4	
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PLEASE NOTE: Liability and Damages. Cardina's liability and analyses. All claims including those for negligence and any off service. In no event shall Cardinal be liable for incidental or cor	Cardinal's liability and clie regligence and any other of ble for incidental or conse	int's exclusive remedy for any claim cause whatsoever shall be deemed quental damages, including without	ny claim arising whether based in contra deemed waived unless made in writing : without limitation, business interruption	rt, shall be limited to the amo eived by Cardinal within 30 da of use, or loss of profits incurn		able	
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# Page 81 of 147

Page 5 of 5



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.7	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Project Manager: Kelly Lowery		BILL TO	ANA	ANALYSIS REQUEST
Address: 601 N. Marienfeld St. STE 400	0	Company:		
land State: TX	Zip: 79701	AHG:		
Phone #: 214-733-3165	Email: klowery@ensolum.com	Address:		
Project #: 03 131226 521 1	E I	City:		
Project Name: Trunk C (WMH-V4E) Trunk (109171)	k (109171)	State: Zip:		
Project Location: Eddy County		Phone #:		
Sampler Name:		Email:		
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING		
Lab I.D. Sample I.D.	(Feet) RAB OR (C)OM ONTAINERS DUNDWATER STEWATER L DUNDWATER	HER : D/BASE: COOL HER :	BIEX Pfg hlorple	
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PLEASE NOTE: Lubidity and Damagan. Cardinal's labidity and client's exclusiv All claims incidenting those for negligence and any other cause whotsoon In no event shall Cardinal be liable incidential or consequential attiliates or successors arising out of or related to the performance of se	e re ges ges	Int paid by the client for the athalyses, in 30 days after completion of the applicable its incurred by client, its subsidiaries, its incurred by client, its subsidiaries, volithe above statistic measone or otherwise.	service.	
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Relinquished By:	Date: Received By: Time:		REMARKS: Paykey/AFE/NonAFE:	18/18/
Sampler - UPS - Bus - Other:	Observed Temp. °C OSOC Sample Condition Corrected Temp. °C OSOC Intact	CHECKED BY: (Initials)	Turnaround Time: Standard Eschele (only) Sa Rush Cool Intact Observed Temp. "C	mple Cond
		22	Correction Factor 0.5°C	Tree Tree



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.6	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

BTEX 8021B	mg/	/kg	Analyze	d 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	122	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

+
Cardinal
cannot
accept
verbal
changes.
Please
email
changes
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celey
.keen
e@ca
rdina
llabsi
nm.co
m

Company Name: Ensolum, LLC	nsolum, LLC	LC		BILL TO		A	ANALYSIS REQUEST	
Project Manager: Kelly Lowery	(elly Lowery			P.O. #:		_		
Address: 601 N.	601 N. Marienfeld St. STE 400			Company: Company	P			
a	State: TX	Zip: 79701		Attn: Bobert Du	Unawer			
Phone #: 214-733-3165			Email: klowery@ensolum.com		/			
Project #: 03B1226321		Project Owner:		City:				
Project Name:Trun	Project Name:Trunk C (WMH-V4E) Trunk (109171)	(109171)		State: Zip:		)		
Project Location: 3	Project Location: 32.194082, -103.923084			Phone #:		00		
Sampler Name: Kaoru Shimada	oru Shimada			Email:	В			
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING				
Lab I.D.	Sample I.D.	Sample Depth (feet)	3 OR (C)OMP. TAINERS NDWATER EWATER GE	BASE: COOL	EX 802	PH 801 Chloride		
HAMMA	0000	20 1	- # G ≪ S 0	5 10	17 115 1	×		
5.	000	101	7.0	V.	1 th C	1		
ونز	20202	_			1 1041 /	1 1 1		
4	# N ST				1251			
5	208				15.321			
6	90050				1994			
7	25 04				1 23 V	VV		
~	080 30	¥	V 1 1	41(2))4	X LUN	XX		-
1/11	NY 120	SK	6 1	10000	1/1/			
PLEASE NOTE: Liability and Dam	ages. Cardinal's liability and client's exclusion	sive remedy for any claim arising whether	based in contract of tort, shall be limited to the a	PEBSE HOTE: Labeling yiel Damages. Clinitant's labeling and client's exclusive memory for any claim rationing whether based to contract of the target to the amount pick by the direct for the amolgenes.	service.	0 4		10 1
In no event shall Cardinal be liable for incidental or consequent affiliates or successors arising out of or related to the perform	able for incidental or consequental damages out of or related to the performance of set	mages, including without limitation, bu services hereunder by Cardinal, rega	In no event shall Cardinal be lable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries attraise or successors indion out of or nebled to the performance of services hereunder by Cardinal, regardless of whether sucy claim is based upon any of the above used or accessors or other the second or the second	of use, or loss of profits incurred by client, its subsidiariles, aim is based upon any of the above stated reasons or otherwise.				
Relinquished By:	SI.	Date: 15-24	Received By:		Verbal Result: Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes	Please prov	Add'l Phone #: vide Email address:	
M.IOM A	MAN & . A WAN		Provident Day	1	REMARKS Perkev/AFE/NonAFE:	ENIONAFE:		
Relinquished By:		Time:	Kecelved by:		24 Monn	2	N63481	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	One) - Other:	Observed Temp. °C Corrected Temp. °C	3,8 Sample Condition Cool Intact	CHECKED BY:	Turnaround Times Standard Rush D Cool Intact Thermometer ID \$440	observ tt 14	Bacteria (only) Sample Condition ed Temp "C	
					Correction Factor	m. 4	15/24	
						-		

Laboratories

Company manual manual and					
Project Manager: Kelly Lowery	P.O. #:				
601 N. Marienfeld St. STE 400	Company:	Marine			
Address. City: Midland State: TX Zip: 79701	Attn: Resp	pert Dunaway			
4-733-3165		1			
-	City:				
(WMH-V4E) Trun	State:	Zip:		)	
Project Location: 32.194082103.923084	Phone #:			00	
TOJECT LOCATION. 92.194002, -100.02000	Email:		_		
Sampler Name: Kaoru Shimada	-		-		
	MATRIX PRESERV.	SAMPLING		-	
Lab I.D. Sample I.D. (feet) S)RAB OR (C)OME	IROUNDWATER VASTEWATER OIL DIL SLUDGE DTHER : CID/BASE: CE / COOL DTHER :	DATE TIME	BTEX 80	Chloric	
1		150/ 1/21/1	X	X	
222	7	1 1131	1	2	
11 AVAS 0-5 C		1 11.31			
12 2W B/2 0-6 4	5	1 1155			
1-0 toms		1, 11-39			
20 WS	7	1106	V	7	
SW		4/15/26 1102	XX	×	
		> 1	7	)	
		1/1	5	× 707	
PLEASE NOTE: Lability and Dumages Cardinal's lability and client's exclusive remotify for any claim string whether based in contrad or text, shall be immed to be amount paid by the client for PLEASE NOTE: Lability and Dumages Cardinal's lability and client's exclusive remotify for any claim string whether to stand and text remotify and the remotify the cardinal string whether to any claim string whether	contract or tort, shall be limited to the amount paid by the client for writing and received by Cardinal within 30 days after comp Avenuationse loss of use or loss of profits incurred by client,	The analyses. Metion of the applicable service. Its subsidiaries,	`		
In no event shall Cardinal be liable for incidentia or cristiquetrial daminges, including university incommission of the state of the s	whether such gaim is based upon any of the above stated	/ / / Verbal Result:	□ Yes	A No Add'I	Add'l Phone #:
1 By: Unit of Times - 24		All Results are emailed. klowery@ensolum.com		Please provide Email address:	ress:
Relinquished By: Date: Recei	Received By:	24 Marks: Paykey/AFERDONAFE:	aykeylAFER	1	N63481
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Corrected Temp. °C <i>3</i> , <i>8</i>	Sample Condition CHE Cool Intact (I) No 1 No 1 No	CHECKED BY: Turnaround Time: Standa (Initials) Pault (Cool Inte Thermometer ID Atterno Correction Factor -0.5°C			Asion

+ Cardinal cannot accept verbal changes. Flease eilidil clidilyes to cerey.......

Released to Imaging: 2/27/2025 9:23:47 AM

# Laboratories

Page 11 of 12

Company Name: Ensolum, LLC	Isolum, LLC	LC		BILL TO			A	ANALYSIS REI	REQUEST	
Project Manager: Kelly Lowery	ly Lowery			P.O. #:						
601 N. M	601 N. Marienfeld St. STE 400			Company: XA ter prit	K.					
Address: City: Midland	State: TX Z	Zip: 79701		Attn: Robert Dun	or typelings				_	
Phone #: 214-733-3165			Email: klowery@ensolum.com	Address:	/					
		Project Owner:		City:						
roject Name:Trunk	Project Name:Trunk C (WMH-V4E) Trunk (109171)	109171)		State: Zip:			)			
roject Location: 32	Project Location: 32.194082, -103.923084			Phone #:			500		_	
Sampler Name: Kaoru Shimada	oru Shimada			Email:	18	M	45			
OR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		5	Э			
Lab I.D.	Sample I.D.	(feet) (G)RAB OR (C)OMP.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE		BTEX 80	TPH 801	Chloride			
11	stork file	NAC		X 4/15/24	X 476	X	×			
			7-1		Ň		Π	2	26	
		12		1110	1	1	1	E		
										1/1/
PLEASE NOTE: Lability and Damages. Cardinal's lability and on All claims including threes for negligence and any other cau In no event shall Cardinals be lable for incidental or conseq utiliates or surcessors arising out of or related to the perfor	ages. Cardinal's liability and clernt's excusive egligence and any other cause whatsoev ble for incidental or consequental damag ut of or related to the performance of ser	<ul> <li>nemedy for any carr among whether your year shall be deemed waived unless ma ages, including without limitation, busin envices hereunder by Cardinal, regardle</li> </ul>	PESSENCE: Lubricy and Damages. Curden's basity and dent's accurant energy carry carrier and the uniting and received by Curden's which on the set All claims including these for medigence and any other carries whitsever that like element and univer unders make in writing and received by Curden's which on the set In one work shall Curden's basits for incidental or consequential damages, including without initiation. Unliness initiations, issued used, so carry of the above all basits of the set answer surveyances and and one to consequential damages, including without initiation. Unliness the initiations, issued care, based of the above all basits of the set and the set of the	plicable ; kenvise.		1		Add'l Phone #-		
Relinquished By:		Time: C-24 Re	Received By	Marken Color	All Results are emailed.		ase provi	Pléase provide Email address:	0	
Relinquished By:	57 P. 10 P.	Date: R	Received By:		24 hours	IAFENO	nAFE:	NGI	481	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C 3,8 Corrected Temp. °C	Sample Condition Cool Inflact	(Initials)	Turnaround Time: Standard Rush A Cool Intact Thermometer ID 4443 Correction Factor 0.696 -	standard vol Intact o	Bacteria (on bserved Temp. *C 140 2, 44/15	ly Sample Condi	Eon Vea Ves No No Corrected Temp. *C	πp °C



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.1	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

#### Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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)

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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.2	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### **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 SM4500CI-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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager
+
Cardinal
cannot
accept
verbal
changes.
P
lease
email
changes
ð
celey.
r.keene@cardinallabsnm.com

Company Name: Ensolum, LLC	nsolum, LLC		BILL TO			A	ANALYSIS REQUEST	IS RE	QUEST	7				
Project Manager: Kelly Lowery	elly Lowery		P.O. #:	-				_	_					
Address: 601 N.	601 N. Marienfeld St. STE 400		Company: Let or ise											
8	State: TX Z	Zip: 79701	Attn: Bobert Dungwey	F										
Phone #: 214-733-3165		Email: klowery@ensolum.com												
Project #: 03B1226321		Project Owner:	City:											
Project Name:Trur	Project Name:Trunk C (WMH-V4E) Trunk (109171)	(109171)	State: Zip:			)								
Project Location: :	Project Location: 32.194082, -103.923084		Phone #:			00								
Sampler Name: Kaoru Shimada	oru Shimada		Email:	B		45								
FOR LAB USE ONLY		MATRIX	PRESERV. X SAMPLING	凵 21		e 4								
Lab I.D.	Sample I.D.	(feet) PRAB OR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL L UDGE		BTEX 80	TPH 801	Chloride								
101110	10501		12 X 4/15/24 12	X 5	×	X		$\square$	$\vdash$	$\vdash$	+	+	T	+
b	1050		1.1 24	1247	5	1		$\vdash$	╞	┝	┝	+	T	t
N.	2050		64 CI	10	+			+	+	+	+		T	+
14	204		12	~	+			+	+		-			$\vdash$
20	99,00	1 1	5 71	19	-				-	$\vdash$	┝	┢		1
1	40 50		1 1 25	1 t	~	7			$\vdash$	+	┝	+	T	+
8	80 10	V VI II	41(5)4 1/25	X	X	×			-					-
1/1/	AY IY	SIC GALL	110001	1.		1							1	1
PLEASE NOTE: Liability afd Dar	ages. Cárdinai's liability and client's exclusion	ve remedy for any claim arising whether based in contract of tort, shall be limited to the	amount paid by the disert for the analyses.	/ /	Y	A		4	Þ			~	V	1
In no event shall Cardinal be	n u varias a nuvering investivit regregariose virio virio verso versos. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, attivito are monocome acience out of or related to the neoformance of services betwinder by Cardinal in	business interruptions, loss	of use, or loss of profits incurred by client, its subsidiaries, aim is based upon any of the above singled reasons or otherwise.											
Relinquished By:	St. Ja Ja	Date: 15-24 Received BY:	A COR	Verbal Result: Yes Yes Yes Yes Yes Yes Yes Yes	0 0	Please provi	Add'l Pho vide Email address:	Add'l Phone #: il address:	ne #:					
Relinquished By:		Date: Received By:	REMARK	REMARKS. Paykev/AFEINonAFE:	IAFERIO	NAFE:								
		Time:	24	Non	25	1		Nb.	N87 481	1				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Corrected Temp. °C 5, 8 Coop Integration	(Initials)	time Standard	Infact I	Dbserved Temp	Bacteria (only) Sample Condition ed Temp. *C	e Condition	Ilion					
						1	-	C						
			Correction	Correction Factor	f	4.0		115/24	15/24	116/24 0100	16/24 0100	15/24	15/24 0100 10	16/24 0100 10

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC	LLC											BILL TO				Þ	ANALYSIS	Sis F	REQUEST		-		-		1	-	
Project Manager: Kelly Lowery	ery							P	P.O. #:	177																	
601 N. Marienfeld St. STE 400	d St. STE 400							0	Company:	any	sti	Acipic	1														
City: Midland	State: TX Zip:	79701						A	Attn:	Ð	ber	et Du	ADWOX.														
Phone #: 214-733-3165		Email: klowery@ensolum.com	wery@	jenso	olum.	com		Þ	Address:	SS:			-												-		
	Proje	Project Owner:						0	City:																		
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In no event shall Cardinal be liable for incodentia or consequencia univeges, incovery winnow minimum and the solution of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service hereunder by Cardinal, regardless of whether such glaim is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of service here and	ad to the performance of servi-	bes hereunder by Cardinal, rega	pardless of w	fwhether	r such a	aim is bi	based upon any of the above	on any	of the a	above s	tated re	easons or otherwise	Verbal Result:		Ves A	No	Add'I Phone #:	Add'I	Phor	le #:							
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 13

Project Manager: Kelly Lowery     P.O. #:       Address:     601 N. Marienfeld St. STE 400
STE 400 Company: States
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1-733-3165
(WMH-V4E) Trunk (109171) State: Zip:
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Delivered By: (Circle One)       Observed Temp. *C       3.8       Sample Condition       CHECKED BY:       Turnwound The:       Standard       Bacteria (only) Sample Condition         Sampler - UPS - Bus - Other:       Corrected Temp. *C       3.8       Cool       Anfact       (Initials)       Rush       Cool       Observed Temp. *C       Image: Cool       Image: Cool

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 13 of 13



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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@cardinallabsr
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Company Name: Ensolum, LLC	nsolum, LLC	LC		BILL TO		ANALY	ANALYSIS REQUEST		
Project Manager: Kelly Lowery	elly Lowery			P.O. #:					
Address: 601 N. N	601 N. Marienfeld St. STE 400			Company: Company	1				
a	State: TX	Zip: 79701		11	wet				
Phone #: 214-733-3165			Email: klowery@ensolum.com		/			_	
Project #: 03B1226321		Project Owner:		City:					
Project Name: Trunk	Project Name:Trunk C (WMH-V4E) Trunk (109171)	(109171)		State: Zip:		)			
Project Location: 3:	Project Location: 32.194082, -103.923084			Phone #:		00			
Sampler Name: Kaoru Shimada	oru Shimada			Email:					
FOR LAB USE ONLY	or of of interview		MATRIX	PRESERV. SAMPLING	21				
			R		302				
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	BTEX 8	TPH 80 Chlori			
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6	100				265 V				
8	20 20	4		4/(5))4	139 ~ .	XX			
1/1/1	1212	212	611-1	1 2 4 21	1,1,1	11		181	1/1
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Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Erisolurii, LLC		BILLIO		
Project Manager: Kelly Lowery	P.	P.O. #:		
601 N. Marienfeld St. STE 400	0	Company: Enterprise	ľ	
City: Midland State: TX Zip: 79701	At	Attn: Respect Dugow	Carl .	
4-733-3165	Email: klowery@ensolum.com A	Address:		
	0	City:		
(WMH-V4E) Trun	S	State: Zip:	)	
Project Location: 32 194082103.923084	P	Phone #:	00	
TOJECT LUCATION. 22. 194024, TRANSLOPE	ņ	mail	Λ	
Sampler Name: Kaoru Shimada			51	
	MATRIX	PRESERV. SAMPLING	)1	
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In no event shall Cardinal be liable for incidentia or cristequential daminges, including window manwork to the store and the store of the store stated reasons or other and affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such gains is based upon any of the above stated reasons or other affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether successors are	rdless of whether such gaim is based upon any of the above	erwise.	al Result: 🛛 Yes	Add'I Phone #:
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Date: Time:	Received By:	REN 2	REMARKS: Paykey/AFEROMAFE:	N63481
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Corrected Temp. °C <i>3</i> , <i>8</i>	Sample Condition Cool Intact	CHECKED BY: Turna (Initials) Rush There Corr	sund Time: Stanfand 🗌 Baci Di Cool Intact: Observed Tu mometer ID ###5- # / 440 schon Factor -0.5°C	eria (only) Sample Condition mp.*C //5/24 //6 No No Connected Temp. *C

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Page 5 of 6

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories

Company Name: Ensolum, LLC	(5/5) 393-2320 FMA (5/5) 393-2470	BILL TO	ANALYSIS	IS REQUEST
Project Manager: Kelly Lowery	AIR AIR AND	P.O. #:		
601 N. Marienfeld St. STE 400	St. STE 400	Company: KAterorik	61	
City: Midland	State: TX Zip: 79701	Attn: Robert Dur	Traching	
Phone #: 214-733-3165		1.com Address:	_	
	Project Owner:	City:		
Project Name: Trunk C (WMH-V4E) Trunk (109171)	4-V4E) Trunk (109171)	State: Zip:	)	
Project Location: 32.194082, -103.923084	, -103.923084	Phone #:		
Sampler Name: Kaoru Shimada	nada	Email:	M	
		MATRIX PRESERV. SAMPLING	21	
	(feet) (feet) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER :	BTEX 802	
16 Sta		$\times$	X X HAE	
		$\gamma_{1}$		1// <del>7240</del>
LEASE NOTE: Lability and Damages. Cardinal's Ut claims including those for mogligence and	PLEAGE NOTE: Lability and Damagers. Clarifrant's lability and dent's exclusive mendy for any dam ating whether based in orbitad or tots, shall be limited to be amount glid by the clerifs the amplipated and public the second and the limited or beam out glid by the clerifs and public the applicable service and clerins: including these for megligence and any other cause whatever shall be determed whatever the analyses made in writing and received by Cardina within 20 add as after completion of the applicable service in one wort shall Cardinal be liable for including and control minimum. The addition is the service of the analyses is the addition. The addition is the service of the addition is the service of the addition of the applicable service in one wort shall Cardinal be liable for including and control minimum. The addition is the implicit of the addition is the addition of the addition.	a nonzed or tot, shall be limited to the amount paid by the cleant for the analyses, de in writing and recent and the limited to the amount paid by the cleant for the analyses, de in writing and recent and the limited to the amount paid by the cleant for the analyses, de in writing and recent and the limited to the analyses, de in writing and recent and the limited to the analyses, de in writing and recent and the limited to the analyses, de in writing and recent and the limited to the second to the description of the limited to the limited to the limited to the second to the limited to the limited to the limited to the limited second to the limited to the limited to the limited to the limited to the limited second to the limited to the limited to the limited to the limited second to the limited to the limited to the limited to the limited second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the limited to the second to the limited to the limited to the limited to the second to the limited to the limited to the limited to the limited to the second to the limited to the lim	enice.	
attiliates or successions arising out of or related to the performance Relinquished By:	to the performance of services hereunder by Cardinal, regardless of whether such Date: <u>K</u> Z.4. Received By: Time: <u>C.3.6.</u>	A A A A A A A A A A A A A A A A A A A	al Result: □ Yes X No ssults are emailed. Please provide Ema ry@ensolum.com	Add'I Phone #: II address:
d By:	Time:		74 horizes A	167481
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rdinal cannot accept verbal changes. Please email changes to celey reelle@calulilaiia.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 6 of 6



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/19/2024	Sampling Date:	04/19/2024
Reported:	04/22/2024	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:	32.1940874, -103.9230931		

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

TPH 8015M	mg	/kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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

BTEX 8021B	mg	/kg	Analyze	d 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 BTEX	<0.300	0.300	04/19/2024	ND					

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d 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

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2024	Sampling Date:	04/19/2024
Reported:	04/22/2024	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:	32.1940874, -103.9230931		

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

TPH 8015M	mg,	/kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	116 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	04/19/2024	Sampling Date:	04/19/2024
Reported:	04/22/2024	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:	32.1940874, -103.9230931		

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

BTEX 8021B	mg/	′kg	Analyze	d 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 BTEX	<0.300	0.300	04/19/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d 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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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 $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

#### Cardinal Laboratories

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolum, LLC	LC	BILL TO	ANALYSIS REQUEST
Project Manager: Kelly Lowery		P.O. #:	
ress: 601 N. Marienfeld St. STE 400	E 400	Company:	
City: Midland State: TX	TX Zip: 79701	Attn:	
Phone #: 214-733-3165	Email: klowery@ensolum.com	.com Address:	
Project #: 03B1226321	Project Owner:	City:	
Project Name: Trunk C (WMH-V4E) Trunk	Trunk	State: Zip:	
Project Location: 32.1940874, -103.9230931	9230931	Phone #:	
Sampler Name: Kaoni Shimada		Email:	Λ
OR LAB USE ONLY		MATRIX PRESERV. SAMPLING	21 5N
			02 015
Lab I.D. Sample I.D.	(feet) (a)RAB OR (C)OI CONTAINERS ROUNDWATER	OIL DIL DIL DIL DITHER : CID/BASE: CE / COOL DITHER : DITHER : DITHER :	BTEX 8 TPH 80 Chloride
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SE NOTE: Liability and Damages. Cardina's liability and cli alims including those for negligence and any other cat event shall cardinal be liable for incidental or conseq	PEAGE NOTE: Liabity and Demages. Cardina's labity and dient's exclusive remainly be any biain entitive yeakeet trades in orderat or trade, and the insteads the amount pade byte direct free a manipers. All calmins including those for miggiance and any other cause whitsevere shall be deemend where all calmins includes the insteads the trades and any other cause whitsevere shall be deemend where all calmins includes the cause whitsevere shall be deemend where all calmins includes the cause whitsevere shall be deemend where all calmins in calming the cause whitsevere shall be deemend where all calmins in the provided eventors. In no event shall be deemend where all calmins in the provided eventors of the provided eventors of the cause whitsevere shall be deemend where all calmins in the provided eventors of the provided eventors of the provided eventors of the provided events of the provided eventors of the provided events and the provided event and the provided events of the provided events of the provided events of the calmins in the provided events of the provided	all be limited to the amount paid by the client for the analyses. eived by Cardinal within 30 days after completion of the applic s of use, or loss of profits incurred by client, its subsidiares and uses of loss of profits incurred by client, its subsidiares	_
ariliates or successors arising out of or related to the performance of services here. Relinquished By:	mance of services hereunder by Cardinal, regariness or wreuter was	1112ka Mila ala	Verbal Result:
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Relinquished By:	Time:		NB34R) (Athous)
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 4. 7 Concreted Temp. °C	Sample Condition CHECKED BY: Cool Intact (Initials)	Turnaround Time: Stahdfird C Badaria (only) Salegie Sugation
		No No	TO. 4/19/24

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinaliabsii

**Released to Imaging: 2/27/2025 9:23:47 AM** 

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	04/23/2024	Sampling Date:	04/22/2024
Reported:	04/24/2024	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:	ENTERPRISE- EDDY COUNTY, NM		

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

TPH 8015M		′kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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

#### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



# Received by OCD: 7/12/2024 8:23:30 AM

Page 4 of 4

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Page 127 of 147



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		oject Number:	TRUNK C TRUNK 03B1226321 BEAUX JENNINGS	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 - 09 025'	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.

### **Cardinal Laboratories**

### \*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705									Reported: 1-May-24 17:	04
				10 7 - 276-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4042938	ЈН	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	ЛН	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	ЛН	29-Apr-24	8021B	
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	
Surrogate: 1-Chlorooctadecane			97.1 %	49.1	-148	4042935	MS	30-Apr-24	8015B	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: TRUNK C TRUNK C TRUNK Project Number: 03B1226321 01-May-24 17:04 Project Manager: BEAUX JENNINGS Fax To: SW - 10 0 - 7' H242276-02 (Soil)									
			H2422	276-02 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4042938	ЛН	30-Apr-24	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	4042938	ЛН	30-Apr-24	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	4042938	ЛН	30-Apr-24	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	4042938	ЛН	30-Apr-24	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	4042938	ЛН	30-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			118 %	71.5	-134	4042938	JH	30-Apr-24	8021B	
Petroleum Hydrocarbons by GO	C 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	
Surrogate: 1-Chlorooctadecane			95.7 %	49.1	-148	4042935	MS	30-Apr-24	8015B	

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\*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:TRUNK C TRUNKReported:Project Number:03B122632101-May-24 17:0Project Manager:BEAUX JENNINGSFax To:Fax To:								04	
				- 06 14 276-03 (So						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	32.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	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	ЛН	30-Apr-24	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		122 %	71.5	-134	4042938	JH	30-Apr-24	8021B	
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	
Surrogate: 1-Chlorooctadecane			95.6 %	49.1	-148	4042939	MS	30-Apr-24	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:       TRUNK C TRUNK       Reported:         Project Number:       03B1226321       01-May-24 17:04         Project Manager:       BEAUX JENNINGS         Fax To:       DS - 09 025'         H242276-04 (Soil)       H242276-04 (Soil)									
			H2422	276-04 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	4043011	HM	30-Apr-24	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	4042938	ЛН	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	ЛН	30-Apr-24	8021B	
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	
Surrogate: 1-Chlorooctadecane			73.6 %	49.1	-148	4042939	MS	30-Apr-24	8015B	

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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	%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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### Volatile Organic Compounds by EPA Method 8021 - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 4042938 - Volatiles										
Blank (4042938-BLK1)				Prepared &	z 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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# 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
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-BSD1)				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				

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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### Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD		
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	
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-BSD1)				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 $6^{\circ}\text{C}$

Samples reported on an as received basis (wet) unless otherwise noted on report

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† Cardinal car	Observed Temp. °C	Time: Date: Time:	Date: 4.20.24	er cause whatsoever shall be dee sequental damages, including wi				1			025 0	14	0-7	. 7-14 0	Sample Depth (feet)		1.	Nm	Runks	Project Owner:	Fax #:	State: TX z	400			1 East Marland, Hobbs, NM 88240
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Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	dition CHECKED BY:			Figure 2. Learning on Learning encounting and view or converse tensory of any set and response of the set of the applicable analyses. All claims including those for negligene and any other cause whatevers shall be deemed waived unters nade in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal the baby for and any other cause whatevers shall be deemed waived unters nade in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall cardinal the 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 hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	7						h2-52-h x	4 4-29-24	4 4 - 32-14	4-29-24	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV. SAN		Phone #: 575-390-2828	State: Zip:	City:	Address:	Attn: Wade Dittrich	Company: Oxy USA,	P.O. #: ENO(4	BILL TO	
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Laboratories

Page 12 of 12

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 140 of 147

QUESTIONS

Action 363536

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

### 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.	

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

Page 141 of 147

QUESTIONS, Page 2

Action 363536

QUESTIONS (continued)		
Operator:	OGRID:	
Enterprise Field Services, LLC	241602	
PO Box 4324	Action Number:	
Houston, TX 77210	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 or 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	

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** (continued)

Operator:	OGRID:	
Enterprise Field Services, LLC	241602	
PO Box 4324	Action Number:	
Houston, TX 77210	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 an	nd 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 t	hat apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	emonstrating the lateral and vertical extents of soil contaminatio	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertication	al extents of contamination been fully delineated	Yes
Was this release entirely of	contained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in m	illigrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date w	ill the remediation commence	12/11/2023
On what date will (or did) t	he 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 surf	ace area (in square feet) that will be remediated	36504
What is the estimated volu	me (in cubic yards) that will be remediated	1352
These estimated dates and measu	urements are recognized to be the best guess or calculation at th	he 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.

QUESTIONS, Page 3

Action 363536

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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

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QUESTIONS, Page 4

Action 363536

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

#### QUESTIONS

Remediation Plan (continued)

Remediation Fian (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	appropriate district office no later than 90 days after the release discovery date.
This remediation will (or is expected to) utilize the following processes to remediate	/ reduce contaminants:
(Select all answers below that apply.)	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
<b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state	Not answered.
<b>OR</b> is the <b>off-site</b> 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.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for relea the OCD does not relieve the operator of liability should their operations have failed to a	nowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: David Feather Title: Contractor Email: dfeather@eprod.com

Email: dfeather@eprod.com Date: 07/12/2024

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

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

QUESTIONS, Page 5

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Action 363536

QUESTIONS (continued)	
Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	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	Νο	

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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 6

Action 363536

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**QUESTIONS** (continued)

Operator:	OGRID:
Enterprise Field Services, LLC	241602
PO Box 4324	Action Number:
Houston, TX 77210	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 r	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.
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents o
to report and/or file certain release notifications and perform corrective actions for release the OCD does not relieve the operator of liability should their operations have failed to water, human health or the environment. In addition, OCD acceptance of a C-141 report	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or tially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed ing 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

agree and sign off to the above statement Email: dfeather@eprod.com Date: 07/12/2024

General Information Phone: (505) 629-6116

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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 (continued)

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

QUESTIONS, Page 7

Action 363536

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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

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

CONDITION	IS
Created By	Condition

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

CONDITIONS

Action 363536

Condition Date