



REMEDIATION CLOSURE REPORT

Property:

Pipeline 1009

**Unit G, S20, T21S, R34E
32.464775° N, 103.490371° W
Lea County, New Mexico
Facility ID: fAPP2122928745
NMOCD Incident ID: nAPP2434522732**

July 21, 2025

Ensolum Project No. 03B1226345

Prepared for:

**Enterprise Field Services, LLC.
PO Box 4324
Houston, Texas 77210**

Attn: David Feather

Prepared by:

Kelly Lowery, GI
Project Geologist

Beaux Jennings
Associate Principal

TABLE OF CONTENTS

1.0	INTRODUCTION.....	1
1.1	Site Description and Background.....	1
1.2	Project Objective	1
2.0	CLOSURE CRITERIA.....	1
3.0	SOIL REMEDIATION ACTIVITIES.....	3
4.0	SOIL SAMPLING PROGRAM	4
5.0	SOIL LABORATORY ANALYTICAL METHODS.....	4
6.0	DATA EVALUATION.....	4
7.0	RECLAMATION AND RE-VEGETATION	5
8.0	FINDINGS AND RECOMMENDATION	6
9.0	STANDARDS OF CARE, LIMITATIONS, AND RELIANCE	7
9.1	Standard of Care	7
9.2	Limitations	7
9.3	Reliance.....	7

APPENDICES

- Appendix A: Figures**
- Appendix B: Supporting Documentation**
- Appendix C: Photographic Documentation**
- Appendix D: Table(s)**
- Appendix E: Laboratory Data Sheets & Chain-of-Custody Documentation**

Pipeline 1009

Unit G, S20, T21S, R34E
32.464775° N, 103.490371° W
Lea County, New Mexico
Facility ID: fAPP2122928745
NMOCD Incident ID: nAPP2434522732

Ensolum Project No. 03B1226345

1.0 INTRODUCTION**1.1 Site Description and Background**

Operator:	Enterprise Field Services, LLC
Site Name:	Pipeline 1009
Location*:	Unit G, Section 20, Township 21 South, Range 34 East 32.464775 ° N, 103.490371 ° W Lea County, New Mexico
Property:	New Mexico State Trust Land managed by the New Mexico State Land Office (NMSLO)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

* - Public Land Survey System (PLSS) Location and Global Positioning System (GPS) coordinates updated to reflect accurate release location pursuant to submission of the New Mexico EMNRD OCD online Notification of Release (NOR).

On December 9, 2024, Enterprise had a release of produced water at the Pipeline 1009, hereinafter referred to as the "Site", due to a compromised transfer line. Approximately 15 barrels (bbls) of produced water was released onto the ground surface with 8 bbls of produced water recovered. Enterprise subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on December 10, 2024. The release was assigned Incident Number nAPP2434522732.

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 soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general Site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

Supporting documentation and figures associated with the following bullets are provided in **Appendix B**.

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database; however, one soil boring (CP-02035-POD-1) was identified approximately 0.5-miles north of the Site. The soil boring was installed in December 2024 to a total depth of 105 feet below ground surface (bgs), with no groundwater encountered.
- 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 of a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database, there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database, no freshwater wells have been identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal freshwater well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- A riverine intermittent streambed that is intermittently flooded is located approximately The Site is located approximately 275 feet south of the Site.
- Based on information identified on the New Mexico Mining and Minerals Division's Geographical Information System (GIS), Maps, and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is located within a stable area, also referred to as low karst potential.
- The Site is not located within a 100-year floodplain.

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

CLOSURE CRITERIA FOR SOILS IMPACTED BY A RELEASE			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On December 9, 2024, Enterprise had a release of produced water at the Site due to a compromised transfer line. Approximately 15 bbls of produced water was released onto the ground surface with 8 bbls of produced water recovered.

Due to the Site being located on NMSLO land, an Archeological Records Management System (ARMS) review was required prior to beginning remediation activities. This review would determine if any known cultural properties had been previously identified within the proposed remediation area and if the area had been previously surveyed for cultural resources.

On February 13, 2025, on behalf of Enterprise, Beaver Creek Archaeology and Environmental (Beaver Creek) presented their ARMs Review findings to the NMSLO. Their review indicated that the area had a pedestrian survey conducted and there are no cultural properties in close vicinity to the Site. No cultural properties were found within the survey area and it was recommended that a finding of No Historic Properties Affected with no further archaeological work be approved for remediation activities to proceed.

On February 25, 2025, Enterprise was awarded a positive response ARMS review and approval from NMSLO to proceed with remediation activities with no conditions.

On May 19 and 20, 2025, prior to excavation activities, Ensolum arrived on-Site to collect 25 delineation soil samples from 12 different locations around the release extent (DS-01 through DS-09, DS-13 through DS-15) at depths ranging from 1 to 12 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

On May 23, 2025, Enterprise was granted a Right of Entry (ROE) by the New Mexico State Land Office to perform remediation work outside of the Enterprise 30-foot right-of-way (ROW) easement.

From May 27, 2025 through May 29, 2025, subsequent to initial excavation activities and continued delineation activities, Ensolum arrived on-Site to collect an additional 16 delineation soil samples from eight different locations around and within the release extent (DS-10, DS-11 (Vertical & Horizontal), DS-12, DS-12D, and DS-15 through DS-17) at a depths of 0.5 to 6 feet bgs, one composite soil samples from the excavation sidewall (SW03) at depths ranging from 0-2 feet bgs, and one composite soil sample from the excavation floor (FS04) at a depth of 2 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

From June 10, 2025 through June 11, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect 25 composite soil samples from the excavation floor (FS-03, and FS-05 through FS-28) at depths ranging from 2 to 16 feet bgs and nine composite soil sample from the excavation sidewalls (SW-01, and SW-04 through SW-11) at depths ranging from 0-2 to 0-16 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

On June 26, 2025, subsequent to additional excavation activities, Ensolum arrived on-Site to collect five composite soil samples from the excavation floor (FS-01, FS-02, FS-13, FS-17, and FS-28) at depths ranging from 10 to 16 feet bgs and two composite soil samples from the excavation sidewalls (SW-02 and SW-12) at depths ranging from 0-11 to 0-16 feet bgs. During this time, excavation sidewall sample location SW-11 was removed completely. Based on the laboratory analytical data, no additional excavation and/or remediation was required.

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (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 133 feet long and 40 to 55 feet wide, with a depth ranging from 2 to 16 feet bgs.

The excavation measured approximately 5,671 square feet in arial extent. A total of approximately 1,222 cubic yards (cy) of soil were excavated from the Site and hauled off for proper disposal at the Lea Land Facility located in Hobbs, New Mexico.

Due to on-going repairs of the pipeline, backfill of the excavation will be completed utilizing material purchased locally from the Lea Land Caliche Pit (Lea Land Backfill) and then re-contoured to match pre-existing conditions.

Figure 3A and **Figure 3B** are maps that identify approximate soil sample locations and depict the approximate dimensions of the impacted soil and excavation extent with respect to the release (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's soil sampling program from May 19, 2025 to June 26, 2025, included the collection of a total of 41 delineation samples from 17 different locations around the release extent (DS-01 through DS-17), a total of 31 composite soil samples from 28 locations from the excavation floor (FS-01 through FS-28) and 12 composite soil samples from the excavation sidewalls (SW-01 through SW-12). In addition, one composite soil sample was collected from the backfill material (Lea Land Backfill) prior to backfilling.

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 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 following the United States Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO following EPA SW-846 Method 8015M/D, and chloride using SM4500Cl-B.

Laboratory analytical results are summarized in **Table 1**, **Table 2** and **Table 3** in **Appendix D**. The executed chain-of-custody forms and laboratory data sheets are provided in **Appendix E**.

6.0 DATA EVALUATION

Ensolum compared the benzene, total BTEX, TPH-GRO/DRO/MRO, and chloride concentrations to laboratory sample detection limits (SDLs) associated with the soils remaining in place at the Site to the applicable NMOCD Closure Criteria. The final composite soil samples were compared to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicated benzene concentrations for the soils remaining in place at the Site, and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs or the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the soils remaining in place at the Site and the backfill material did 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 indicated chloride concentrations for the soils remaining in place at the Site and the backfill material did not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 600 mg/kg for depth to groundwater ≤ 50 feet.

Laboratory analytical results are summarized in **Table 1**, **Table 2** and **Table 3** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

The release occurred in pasture, 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 in the Reclamation Zone that was impacted by the release per 19.15.29.13.D (1) NMAC Reclamation Requirements for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the pasture area: The soil in the vicinity of the release includes fine sandy loam from the surface to 8 inches bgs and sandy clay loam from 8 to 60 inches bgs (Berino-Cacique fine sandy loams association, dmpf).

- The excavation will be backfilled with material from the Lea Land facility (Lea Land Backfill) and recontoured to match the surrounding grade;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed by the NMSLO to meet reclamation standards for this region, which will be Sandy Loam (SL) Sites Seed Mixture as described in the NMSLO Revegetation Guidelines Handbook for Southeastern New Mexico, dated 2018;
- The seed mixture will be distributed with one of the following methods: push broadcaster seed spreader/tractor-operated broadcast seed spreader/drill seeding / other means;
- Application of the seed mixture will be at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever is more applicable;
- Erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run-off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or

- Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas.
- Backfilling of the excavation will be completed in the next two weeks following the completion of pipeline repairs;
- Seeding is anticipated to be completed in the summer when temperatures and precipitation are 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. NMSLO has recognized the optimal time to seed is between July and early September, which will be adhered to for this Site; and
- 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 NMSLO-approved pure live seed mixture will be applied as well, and any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On December 9, 2024, Enterprise had a release of produced water at the Site due to a compromised transfer line. Approximately 15 bbls of produced water was released onto the ground surface with 8 bbls of produced water recovered.
- On February 13, 2025, Beaver Creek presented their ARMs Review findings to the NMSLO. No cultural properties were found within the survey area and it was recommended that a finding of No Historic Properties Affected with no further archaeological work be approved for remediation activities to proceed. On February 25, 2025, Enterprise was awarded a positive response ARMS review and approval from NMSLO to proceed with remediation activities with no conditions.
- Ensolum's soil sampling program from May 19, 2025, to June 26, 2025, included the collection of a total of 41 delineation samples from 17 different locations around the release extent (DS-01 through DS-17), a total of 31 composite soil samples from 28 locations from the excavation floor (FS-01 through FS-28) and 12 composite soil samples from the excavation sidewalls (SW-01 through SW-12). In addition, one composite soil sample was collected from the backfill material (Lea Land Backfill) prior to backfilling.
- The final excavation area measured approximately 133 feet long and 40 to 55 feet wide, with a depth ranging from 2 to 16 feet bgs.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 Releases as guidance. Based on laboratory analytical results, the final composite soil samples within the impacted area and the backfill materials did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After confirmation sampling was completed, the backfill of the excavation will be completed utilizing material purchased locally from the Lea Land Caliche Pit (Lea Land Backfill) and then re-contoured to match pre-existing conditions.

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

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

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

9.2 Limitations

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

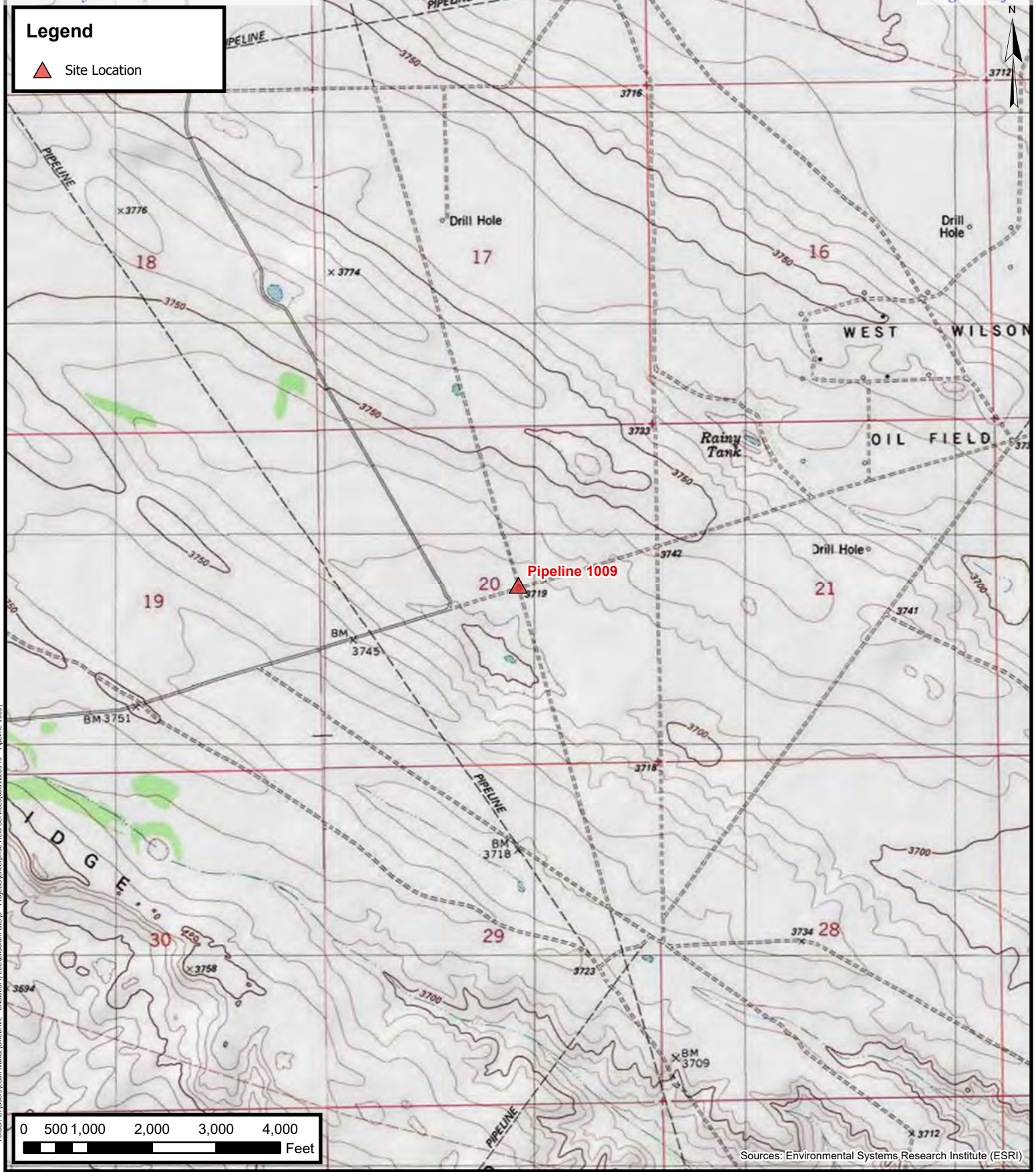
9.3 Reliance

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 of 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

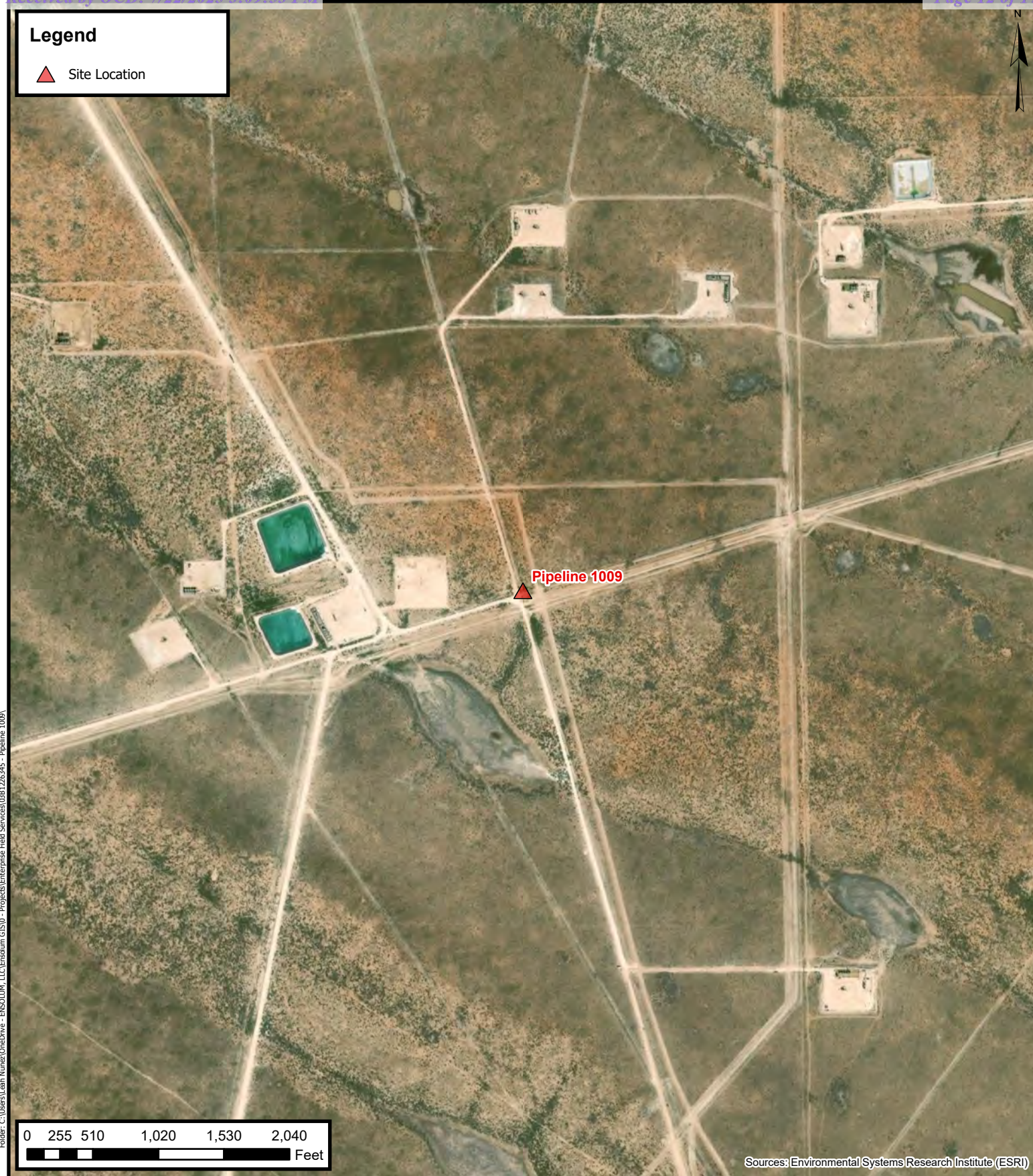
Figures



**ENSOLUM**
Environmental, Engineering and
Hydrogeologic Consultants

Topographic Map
Enterprise Field Services, LLC
Pipeline 1009
Project Number: 03B1226345
32.464775, -103.490371
Lea County, New Mexico

FIGURE
1

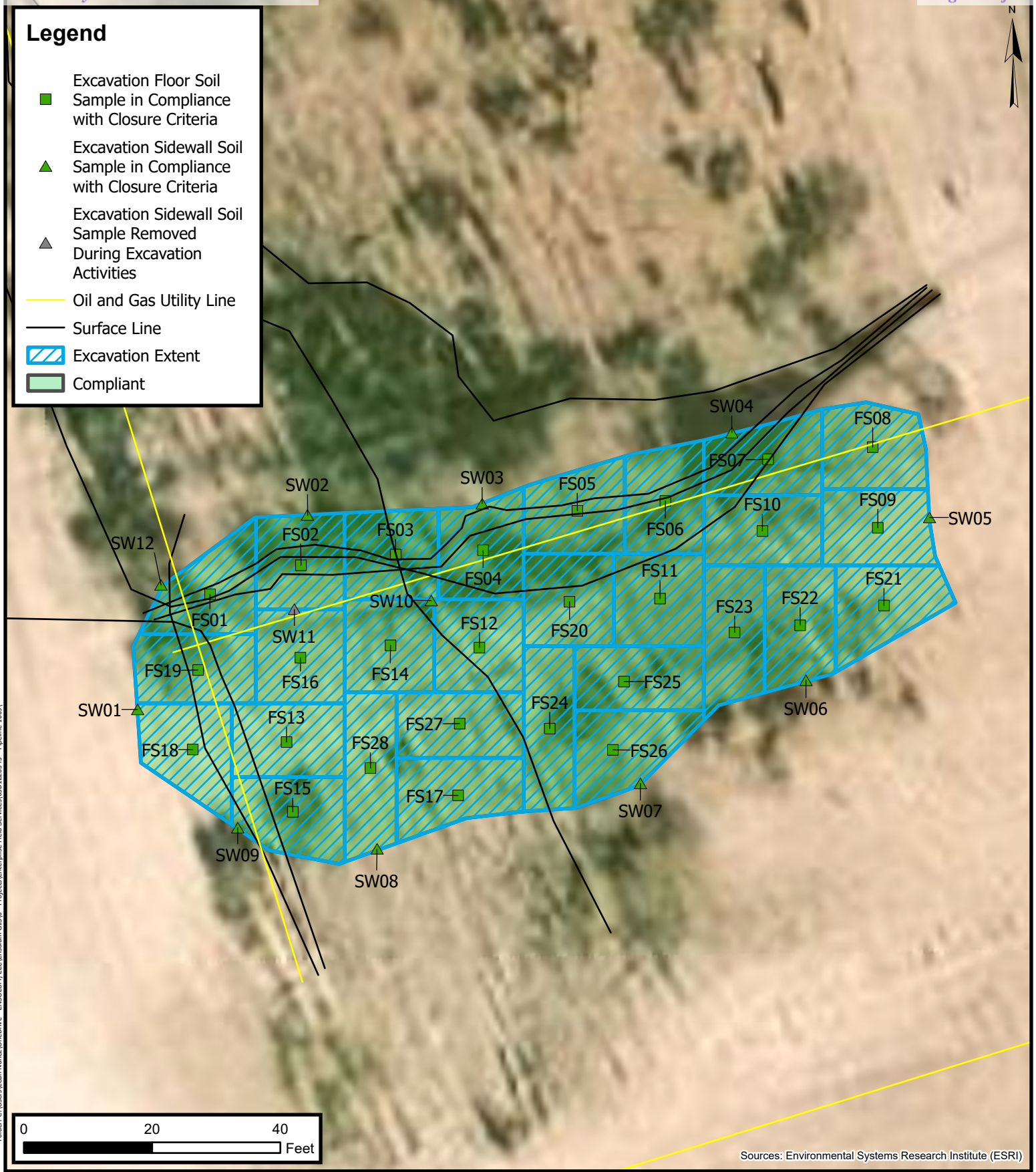



Site Vicinity Map

Enterprise Field Services, LLC
Pipeline 1009

Project Number: 03B1226345
32.464775, -103.490371
Lea County, New Mexico

FIGURE
2





Environmental, Engineering and Hydrogeologic Consultants

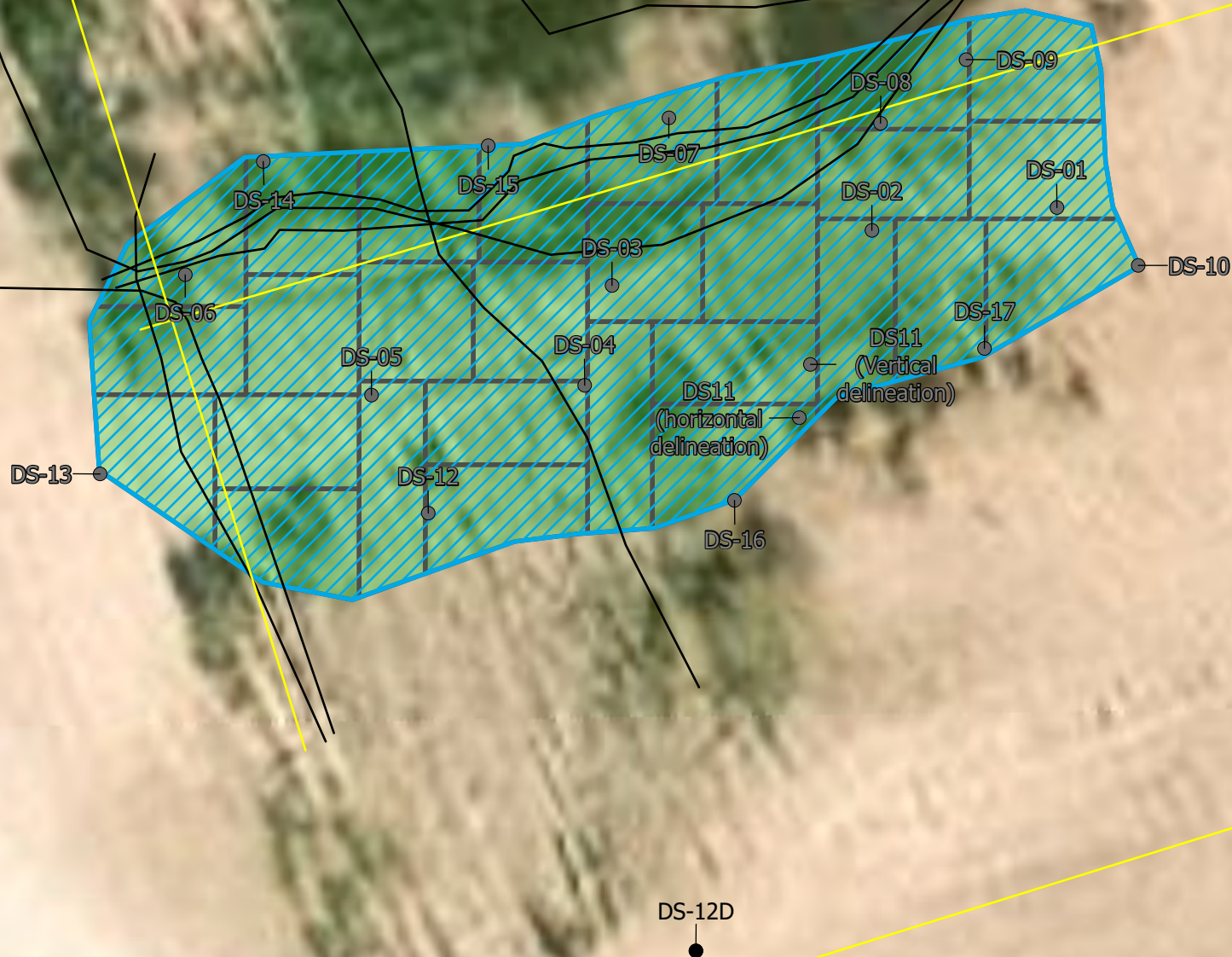
Site Map

Enterprise Field Services, LLC
Pipeline 1009
Project Number: 03B1226345
32.464775, -103.490371
Lea County, New Mexico

FIGURE 3A

Legend

- Delineation Soil Sample Location
- Delineation Soil Sample Point Removed During Soil Sampling Activities
- Oil and Gas Utility Line
- Surface Line
- ▨ Excavation Extent
- Compliant



Folder: C:\Users\Leah Nunez\OneDrive - ENSOLUM, LLC\OneDrive - ENSOLUM, LLC\Enterprise Field Services\03B1226345 - Pipeline 1009

Sources: Environmental Systems Research Institute (ESRI)

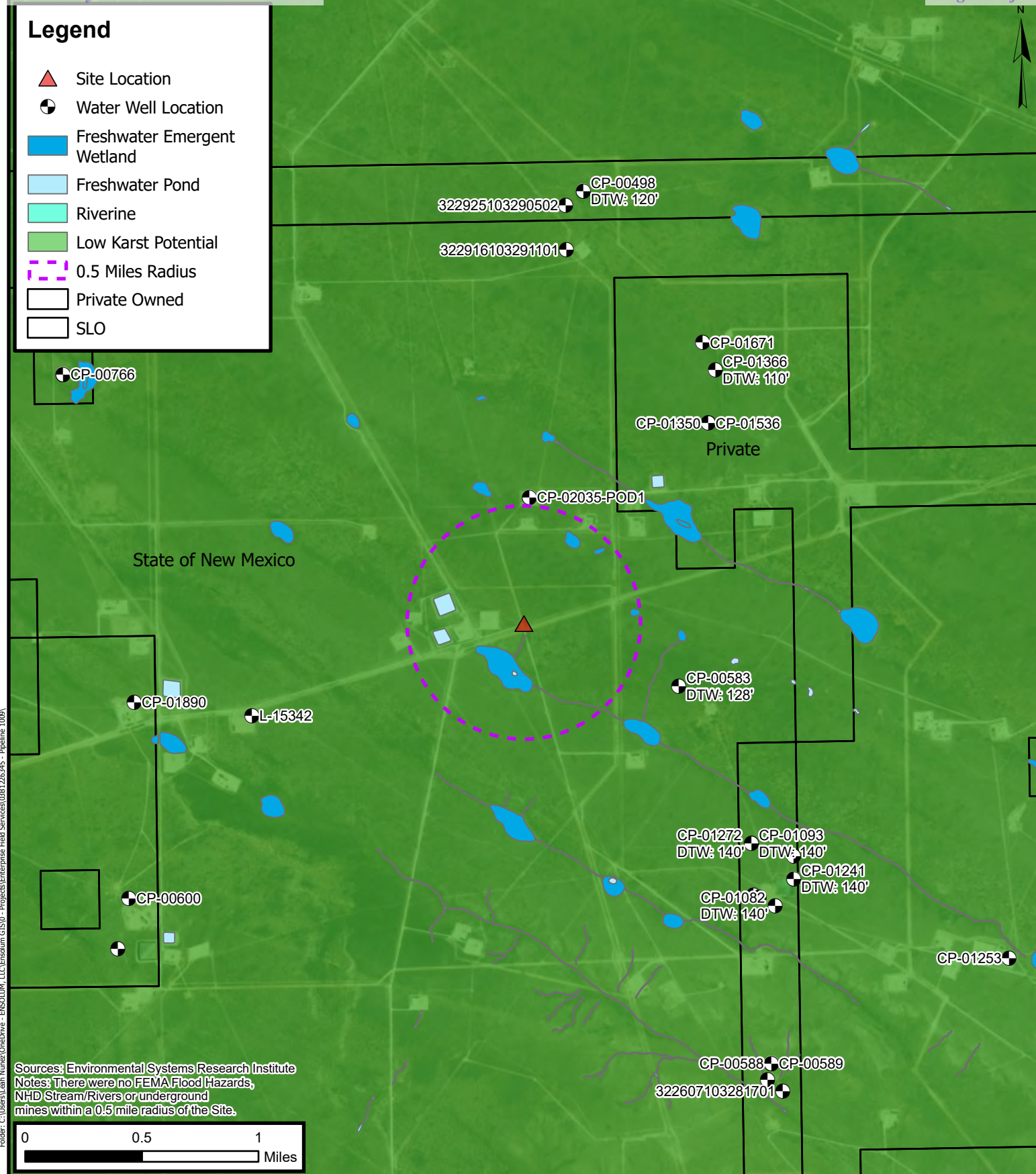


Delineation Soil Sample Locations

Enterprise Field Services, LLC
Pipeline 1009

Project Number: 03B1226345
32.464775, -103.490371
Lea County, New Mexico

**FIGURE
3B**



Closure Criteria Map

Enterprise Field Services, LLC
 Pipeline 1009

Project Number: 03B1226345
 32.464775, -103.490371
 Lea County, New Mexico

FIGURE

4






APPENDIX B

Supporting Documentation

Stephanie Garcia Richard
COMMISSIONER


State of New Mexico
Commissioner of Public Lands
310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmslodelands.org

MEMORANDUM

TO: Raina Hanley; Beaver Creek Archaeology

FROM: Adesbah Foguth, *Trust Land Archaeologist*
(505) 469-2894
afoguth@nmslo.gov

SUBJECT: Ensolum on behalf of Enterprise Field Services (EFS)
Remediation for: EFS' Pipeline 1009 Remediation
Section 20, T21S, R34E, N.M.P.M. Lea County

REFERENCE: NMSLO Cultural Properties Protection Rule (19.2.24 NMAC)

DATE: 2/25/2025

Thank you for your submission relating to the Proponent's proposed remediation activities at Enterprise Field Services' Pipeline 1009 Remediation. An archaeological survey of the entire area of potential effect has been completed and no cultural properties were identified. Pursuant to NMSLO 19.2.24.8 (C) NMAC, remediation may proceed.

If any cultural materials are inadvertently encountered during surface disturbance, work must cease within 50 feet and the NMSLO Cultural Resources Office must be notified immediately by emailing (CROinfo@nmslo.gov). Please reach out if you have questions or need additional clarification.



FW: (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – Not Approved

From Feather, David <DFeather@eprod.com>

Date Mon 4/21/2025 9:22 AM

To Kelly Lowery <klowery@ensolum.com>

[**EXTERNAL EMAIL**]

From: Knight, Tami C. <tknight@nmslo.gov>

Sent: Thursday, April 17, 2025 3:14 PM

To: Falcomata, Julianna <JRFalcomata@eprod.com>

Cc: Feather, David <DFeather@eprod.com>

Subject: [EXTERNAL] RE: (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – Not Approved

[Use caution with links/attachments]

ECO has reviewed the subject plan has is not able to approve the plan. The plan details the site assessment information but does not provide details regarding remediation as required by 19.15.29 NMAC. The workplan did not state that a separate remediation workplan would be submitted either.

Please revise the workplan to address the required details for remediation or let me know if a separate remediation workplan is being submitted based on site assessment results.

Thank you



Tami Knight, CHMM
Environmental Specialist
Environmental Compliance Office
505.670 1638
New Mexico State Land Office



tknight@nmslo.gov
nmstatelands.org



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Outlook

RE: [EXTERNAL] nAPP2434522732 - Extension request

From Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>**Date** Mon 3/3/2025 4:36 PM**To** Falcomata, Julianna <JRFalcomata@eprod.com>**Cc** Feather, David <DFeather@eprod.com>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Dunaway, Robert <rhodunaway@eprod.com>

[Use caution with links/attachments]

Julianna,

Your request for an extension to 06/07/2025 is approved.

In filling out the C-141 for this release, there is a statement that allows the operator to answer yes or no to. The statement is: "The concentration of dissolved chloride in the produced water >10,000 mg/l". This one is answered "No". It is highly unlikely that any produced water in SENM that is less than 10,000 mg/l in dissolved chloride. If Enterprise contends this water is, you may obtain a representative sample of the water and have it tested. Provide two business days' notice prior to obtaining the sample, or you may correct the C-141 with the next submittal.

Thank you,

Mike Bratcher

Incident Supervisor

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave | Artesia, NM 88210

(575) 626-0857 |

mike.bratcher@emnrd.nm.gov<http://www.emnrd.nm.gov/ocd>

From: Falcomata, Julianna <JRFalcomata@eprod.com>**Sent:** Monday, March 3, 2025 1:08 PM**To:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>**Cc:** Feather, David <DFeather@eprod.com>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Dunaway, Robert <rhodunaway@eprod.com>**Subject:** RE: [EXTERNAL] nAPP2434522732 - Extension requestYou don't often get email from jrfalcomata@eprod.com. [Learn why this is important](#)

Yes, that is correct. This fluid in this gathering line originated from associated wells and had not undergone any processing prior to being released.

Julianna Falcomata

Field Environmental Scientist

3008 E Greene St, Carlsbad, NM 88220

Mobile: (575) 266-1904

jrfalcomata@eprod.com



From: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Sent: Monday, March 3, 2025 10:57 AM

To: Falcomata, Julianna <JRFalcomata@eprod.com>

Cc: Feather, David <DFeather@eprod.com>; Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Subject: RE: [EXTERNAL] nAPP2434522732 - Extension request

[Use caution with links/attachments]

Julianna,

The C-141 for this release indicates the fluid released was produced water. Was the water unadulterated, straight from a production well bore?

Thank you,

Mike Bratcher

Incident Supervisor

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave | Artesia, NM 88210

(575) 626-0857 |

mike.bratcher@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd>

From: Falcomata, Julianna <JRFalcomata@eprod.com>

Sent: Monday, March 3, 2025 9:34 AM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Feather, David <DFeather@eprod.com>

Subject: [EXTERNAL] nAPP2434522732 - Extension request

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

Good Morning Mike,

Enterprise is requesting a time extension on nAPP2434522732 . The original due date for the closure report submittal is March 09, 2025. Enterprise requests time extension of an additional **90 days** for a new submittal due date of June 07, 2025. Enterprise requires additional time for the completion of the ARMS survey and remediation activities. Please acknowledge that this variance request was received. If there are any questions, or if we need to supply additional information, please let me know.

Thank you!

Julianna Falcomata

Field Environmental Scientist

3008 E Greene St, Carlsbad, NM 88220

Mobile: (575) 266-1904

jrfalcomata@eprod.com



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FW: (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – December 09, 2024 - Approved

From Falcomata, Julianna <JRFalcomata@eprod.com>

Date Thu 5/1/2025 2:19 PM

To Kelly Lowery <klowery@ensolum.com>

Cc Feather, David <DFeather@eprod.com>

[**EXTERNAL EMAIL**]

SLO has approved our remediation plan!

From: Knight, Tami C. <tknight@nmslo.gov>

Sent: Thursday, May 1, 2025 12:26 PM

To: Falcomata, Julianna <JRFalcomata@eprod.com>

Cc: Bisbey-Kuehn, Elizabeth A. <ebisbeykuehn@nmslo.gov>

Subject: [EXTERNAL] RE: (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – December 09, 2024 - Approved

[Use caution with links/attachments]

Documentation of proposed remediation actions for the subject release incident was received from your office on April 30, 2025. The NMSLO Environmental Compliance Office (ECO) has reviewed the plan, and based on the information provided in the document received from your office, ECO has approved the remediation plan. Please submit the remediation closure report to eco@nmslo.gov.

Lessee and/or their contractor are responsible for ensuring the project manager and field personnel performing the work follow the approved work plan.



Environmental Compliance Office
New Mexico State Land Office



eco@nmslo.gov
nmstatelands.org



.....
CONFIDENTIALITY NOTICE - This e-mail transmission, including all documents, files, or previous e-mail messages attached hereto, may contain confidential and/or legally privileged information. If you are not the intended recipient, or a person responsible for delivering it to the intended recipient, you are hereby notified that you must not read this transmission and that any disclosure, copying, printing, distribution, or use of any of the information contained in and/or attached to this transmission is STRICTLY PROHIBITED. If you have received this transmission in error, please immediately notify the sender and delete the original transmission and its attachments without reading or saving in any manner. Thank you.

From: Falcomata, Julianna <JRFalcomata@eprod.com>

Sent: Wednesday, April 30, 2025 6:50 AM

To: SLO Spills <spills@nmslo.gov>

Subject: [EXTERNAL] (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – December 09, 2024

Good Morning,

Attached is the updated proposed work plan for nAPP2434522732. If any additional information is needed, please let me know!

Thank you!

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@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.

From: Falcomata, Julianna <JRFalcomata@eprod.com>
Sent: Monday, April 7, 2025 10:22 AM
To: SLO Spills <spills@nmslo.gov>
Cc: Feather, David <DFeather@eprod.com>
Subject: [EXTERNAL] (Proposed Remediation Work Plan) Enterprise Field Services, LLC – Pipeline 1009 (Facility ID:fAPP2122928745/Incident #: nAPP2434522732) – December 09, 2024

Good Morning,

Attached is the proposed work plan for nAPP2434522732. If any additional information is needed, please let me know!

Thank you,

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com



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(Sampling Notification for 05/19/2025-05/22/2025) Enterprise Field Services, LLC - Pipeline 1009
(Incident ID: nAPP2434522732) - 12/09/2024Hel

From Falcomata, Julianna <JRFalcomata@eprod.com>

To eco@nmslo.gov <eco@nmslo.gov>

Good Morning,

Enterprise Field Services, LLC would like to provide notification for the sampling activities that will be conducted at the Pipeline 1009 (Incident ID: nAPP2434522732) from Monday, May 19th through Thursday, May 22nd beginning at 9:00am MST. The samples may be used for closure, provided they meet applicable closure limits.

Thank you,

Julianna Falcomata

Field Environmental Scientist

3008 E Greene St, Carlsbad, NM 88220

Mobile: (575) 266-1904

jrfalcomata@eprod.com





Outlook

RE: [EXTERNAL] nAPP2434522732 - Extension request

From Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>**Date** Tue 6/3/2025 4:00 PM**To** Falcomata, Julianna <JRFalcomata@eprod.com>**Cc** Dunaway, Robert <rhodunaway@eprod.com>

[Use caution with links/attachments]

Julianna,

Your request for an extension on the above referenced incident is approved to 07/22/2025. Please include all correspondence in future submittals.

Thank you,

Mike Bratcher

Incident Supervisor

Environmental Bureau

EMNRD - Oil Conservation Division

506 W. Texas Ave | Artesia, NM 88210

(575) 626-0857 |

mike.bratcher@emnrd.nm.gov<http://www.emnrd.nm.gov/ocd>

From: Falcomata, Julianna <JRFalcomata@eprod.com>**Sent:** Tuesday, June 3, 2025 9:50 AM**To:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>**Cc:** Dunaway, Robert <rhodunaway@eprod.com>**Subject:** [EXTERNAL] nAPP2434522732 - Extension request

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

Good Morning Mike,

Enterprise is requesting a time extension on nAPP2434522732 . The extended due date for the closure report submittal is June 07, 2025. Enterprise requests an additional time extension of **45 days** for a new submittal due date of July 22, 2025. Enterprise requires additional time for the completion of remediation activities outside of the right of way (ROW). Enterprise was not permitted to begin remediation efforts outside the ROW until a Right of Entry (ROE) permit was issued by NMSLO. The ROE permit was finalized with SLO on 05/21/2025 Please acknowledge that this variance request was received. If there are any questions, or if we need to supply additional information, please let me know.

Thank you,

Julianna Falcomata

Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com



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NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
Stephanie Garcia Richard
New Mexico State Land Office Building
P.O. Box 1148, Santa Fe, NM 87504-1148

RIGHT OF ENTRY PERMIT
CONTRACT NO. RE – 7498

This Agreement is made and entered into between the COMMISSIONER OF PUBLIC LANDS (the "Commissioner") and

Enterprise Field Services LLC
1100 Louisiana Street, Suite 1000
Houston, TX 77002

("Permittee"). The parties agree as follows:

1. RIGHT OF ENTRY ("ROE")

The Commissioner grants to Permittee, and its authorized representatives, employees, and contractors, permission to use the state trust lands identified below (the "Premises"), and ingress and egress to the Premises, for the sole purposes of (1) surveying/conducting an environmental investigation due to a crude oil and produced water release on or adjacent to the site of the **MRC Permian Company (Incident # nAPP2434522732)** and (2) conducting surface reclamation activities, including removal of equipment and debris, and any required remediation per 19.15.29.12 NMAC.

The Premises are situated in the following location in **Lea County**, New Mexico::

Section	Township	Range	Subdivision	County	Longitude/Latitude
20	21S	34E	SW4NE4	Lea	32.464775/-103.490371

2. TERM AND TERMINATION

Right of entry is granted for a term of **180 days**, commencing on the execution date of this document by the Commissioner of Public Lands.

3. FEES

\$ 50.00 Application Fee
\$ 500.00 Permit Fee
\$ 550.00 Total Fee

4. CONDITIONS OF USE

RE-7498

- A. The issuance of this ROE does not guarantee that any subsequent lease, permit, or any other instrument will be issued to Permittee for the Premises.
- B. No blading or widening of any roads that provide access to the Premises is permitted under this ROE.
- C. No sale of any material extracted from the Premises is allowed under this ROE.
- D. Permittee shall observe all applicable federal, state, and local laws and regulations.
- E. Permittee shall take all reasonable precautions to prevent and suppress forest, brush, and grass fires and prevent pollution of waters on or in the vicinity of the Premises.
- F. Permittee shall not block or disrupt roads or trails commonly in use.
- G. This ROE is subject to any and all easements and rights-of-way previously granted and now in force and effect.
- H. Permittee shall be responsible for repair and restitution for damage to any Premises or improvements as a result of activities related to the ROE.
- I. Prior to entering the Premises, Permittee must identify and contact any existing surface lessees. The grant of this ROE does not allow access across private lands.
- J. Permittee may utilize this ROE upon its execution for inspection of the Premises and to conduct any necessary tests or inspections. Permittee may not conduct remediation or reclamation work until it has submitted a written plan for such work, and received State Land Office approval.
- K. Personnel present on Premises: **Enterprise Field Services LLC personnel and authorized contractors.**
- L. Equipment and materials present on Premises: **Vehicles, heavy equipment, and associated equipment.**

5. SITE CONDITIONS

- A. No surface disturbance, other than soil tests, except as described in a reclamation plan submitted to and approved by the State Land Office.
- B. Access to the Premises shall be over existing roads.
- C. The natural environmental conditions that exist contemporaneously with this grant of ROE shall be preserved and protected. Permittee must follow all applicable environmental and cultural resource protection laws and regulations.

6. INDEMNITY

Permittee shall save, hold harmless, indemnify, and defend the State of New Mexico, the Commissioner and Commissioner's employees, agents and contractors, in both their official and individual capacities, from any and all liability, claims, losses, damages, or expenses of any character or nature whatsoever, including but not limited to attorney's fees, court costs, loss of land value or use, third party claims, penalties, or removal, remedial or restoration costs arising out of, or alleged to arise out of Permittee's operations or presence on the Premises (or operations or presence of his representatives, employees, or contractors).

7. SURVIVAL OF TERMS

Permittee's obligations regarding indemnity, site conditions, and compliance with applicable standards and laws, shall survive the termination, cancellation or relinquishment of this Agreement, and any cause of action of the Commissioner to enforce any right, liability, claim, loss, damage or expense under those paragraphs shall not be deemed to accrue until the Commissioner's actual discovery of said right, liability, claim, loss, damage or expense.

8. NOTIFICATION

Permittee must notify the State Land Office immediately in the event Permittee or his representatives, employees, or contractors observe any spill, fire, or other emergency on the Premises, or if Permittee or his representatives, employees, or contractors experience any serious injury while on the Premises.

RE-7498

WITNESS the hands of PERMITTEE and COMMISSIONER on the day(s) and year entered below.

Brian Woodson

PERMITTEE SIGNATURE

DATE: 5-21-2025

Brian Woodson

Agent & Attorney-in-Fact

PERMITTEE NAME AND TITLE (PRINT)

SEAL:

BY: Stephanie Garcia Richard

Stephanie Garcia Richard
Commissioner of Public Lands

DATE: 05/23/2025





Stephanie Garcia Richard
COMMISSIONER

State of New Mexico
Commissioner of Public Lands

310 OLD SANTA FE TRAIL
P.O. BOX 1148
SANTA FE, NEW MEXICO 87504-1148

COMMISSIONER'S OFFICE
Phone (505) 827-5760
Fax (505) 827-5766
www.nmstatelands.org

May 23, 2025

Enterprise Field Services LLC
1100 Louisiana Street, Suite 1000
Houston, TX 77002

Attn: Brian Woodson

Re: Right-of-Entry Permit No.: RE-7498 MRC Permian Company

Dear Applicant:

Enclosed is the completed captioned Right-of-Entry permit. If any corrections are necessary, please let us know and we will retype or amend this permit as necessary.

The New Mexico State Land Office requires you to notify any surface lessees that will be impacted by your project prior to construction.

If you have any questions, or if we may be of further assistance, please do not hesitate to contact Christopher Gutierrez at (505) 827-5773.

Sincerely,


James S. Bordegaray
Director, Commercial Resources Division

JSB/CLG



(Sampling Notification for 05/27/2025-05/29/2025) Enterprise Field Services, LLC - Pipeline 1009
(Incident ID: nAPP2434522732) - 12/09/2024

From Falcomata, Julianna <JRFalcomata@eprod.com>

To eco@nmslo.gov <eco@nmslo.gov>

Good Morning,

Enterprise Field Services, LLC would like to provide notification for the sampling activities that will be conducted at the Pipeline 1009 (Incident ID: nAPP2434522732) from Tuesday, May 27th through Thursday, May 29th beginning at 9:00am MST. The samples may be used for closure, provided they meet applicable closure limits.

Thank you,

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com





**(Sampling Notification for 06/10/2025-06/11/2025) Enterprise Field Services, LLC - Pipeline 1009
(Incident ID: nAPP2434522732) - 12/09/2024**

From Falcomata, Julianna <JRFalcomata@eprod.com>

Date Fri 6/6/2025 3:38 PM

To spills@nmslo.gov <spills@nmslo.gov>

Cc Kelly Lowery <klowery@ensolum.com>

[**EXTERNAL EMAIL**]

Good Afternoon,

Enterprise Field Services, LLC would like to provide notification for the sampling activities that will be conducted at the Pipeline 1009 (Incident ID: nAPP2434522732) from Tuesday, June 10th through Wednesday, June 11th beginning at 9:00am MST. The samples may be used for closure, provided they meet applicable closure limits.

Thank you,

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com



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**(Sampling Notification for 06/26/2025-06/27/2025) Enterprise Field Services, LLC - Pipeline 1009
(Incident ID: nAPP2434522732) - 12/09/2024**

From Falcomata, Julianna <JRFalcomata@eprod.com>

Date Mon 6/23/2025 1:52 PM

To eco@nmslo.gov <eco@nmslo.gov>

Cc Feather, David <DFeather@eprod.com>; Kelly Lowery <klowery@ensolum.com>

[**EXTERNAL EMAIL**]

Good Afternoon,

Enterprise Field Services, LLC would like to provide notification for the sampling activities that will be conducted at the Pipeline 1009 (Incident ID: nAPP2434522732) from Thursday, June 26th through Friday, June 27th beginning at 9:00am MST.

The samples may be used for closure, provided they meet applicable closure limits.

Thank you,

Julianna Falcomata

Field Environmental Scientist

3008 E Greene St, Carlsbad, NM 88220

Mobile: (575) 266-1904

jrfalcomata@eprod.com



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**(Sampling Notification Update for 06/27/2025 Enterprise Field Services, LLC - Pipeline 1009
(Incident ID: nAPP2434522732) - 12/09/2024**

From Falcomata, Julianna <JRFalcomata@eprod.com>
To eco@nmslo.gov <eco@nmslo.gov>
Cc Feather, David <DFeather@eprod.com>

Good Evening,

Enterprise Field Services, LLC would like to provide an up update to the notification for sampling activities that were be scheduled to be conducted at the Pipeline 1009 (Incident ID: nAPP2434522732) from Thursday, June 26th through Friday, June 27th. All samples were collected this afternoon on June 26th, 2025, and no additional samples will be taken from this location tomorrow June 27th, 2025. If there is any additional information required, please let me know.

Thank you,

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com





Outlook

FW: [EXTERNAL] nAPP2434522732 - Sampling Notification

From Falcomata, Julianna <JRFalcomata@eprod.com>

Date Mon 7/7/2025 4:17 PM

To Kelly Lowery <klowery@ensolum.com>

[**EXTERNAL EMAIL**]

From: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>

Sent: Friday, June 27, 2025 7:02 AM

To: Falcomata, Julianna <JRFalcomata@eprod.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

Cc: Feather, David <DFeather@eprod.com>; Dunaway, Robert <rhodunaway@eprod.com>

Subject: RE: [EXTERNAL] nAPP2434522732 - Sampling Notification

[Use caution with links/attachments]

Julianna,

Thank you for the notification that today's sampling will not occur.

I have made a note in the incident file.

Thank you,

Brittany Hall • Environmental Field Compliance Supervisor

Environmental Field Compliance Group

EMNRD - Oil Conservation Division

1000 Rio Brazos Road | Aztec, NM 87410

505.517.5333 | Brittany.Hall@emnrd.nm.gov

<http://www.emnrd.nm.gov/ocd/>

Effective 12/1/2024: OCD has updated guidance on karst potential occurrence zones. This notice can be found at: <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> under "2024 OCD ANNOUNCEMENTS AND NOTIFICATIONS".

The Digital C-141 guidance documents can be found at <https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/> or <https://www.emnrd.nm.gov/ocd/ocd-forms/>.

From: Falcomata, Julianna <JRFalcomata@eprod.com>

Sent: Thursday, June 26, 2025 7:33 PM

To: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Hall, Brittany, EMNRD

<Brittany.Hall@emnrd.nm.gov>

Cc: Feather, David <DFeather@eprod.com>; Dunaway, Robert <rhodunaway@eprod.com>

Subject: [EXTERNAL] nAPP2434522732 - Sampling Notification

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Good evening,

Sample collection at Pipeline 1009 (nAPP2434522732) was scheduled for this week on June 26th – 27th. All samples were collected this afternoon and there will not be any samples collected at this location tomorrow. If any additional information is required for these types of notifications, please let me know.

Thank you,

Julianna Falcomata
Field Environmental Scientist
3008 E Greene St, Carlsbad, NM 88220
Mobile: (575) 266-1904
jrfalcomata@eprod.com



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NMSLO Seed Mix**Sandy Loam (SL)****SANDY LOAM (SL) SITES SEED MIXTURE:**

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
<u>Grasses:</u>			
Galleta grass	Viva, VNS, So.	2.5	F
Little bluestem	Cimmaron, Pastura	2.5	F
Blue grama	Hachita, Lovington	2.0	D
Sideoats grama	Vaughn, El Reno	2.0	F
Sand dropseed	VNS, Southern	1.0	S
<u>Forbs:</u>			
Indian blanketflower	VNS, Southern	1.0	D
Parry penstemon	VNS, Southern	1.0	D
Blue flax	Appar	1.0	D
Desert globemallow	VNS, Southern	1.0	D
<u>Shrubs:</u>			
Fourwing saltbush	VNS, Southern	2.0	D
Common winterfat	VNS, Southern	1.0	F
Apache plume	VNS, Southern	0.75	F
Total PLS/acre		17.75	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box

- VNS, Southern – No Variety Stated, seed should be from a southern latitude collection of this species.
- Double above seed rates for broadcast or hydroseeding.
- If Parry penstemon is not available, substitute firecracker penstemon.
- If desert globemallow is not available, substitute scarlet globemallow or Nelson globemallow.
- If a species is not available, provide a suggested substitute to the New Mexico Land Office for approval. Increasing all other species proportionately may be acceptable.





APPENDIX C

Photographic Documentation

Project: Pipeline 1009
Entity: Enterprise Field Services LLC
Incident ID: nAPP2434522732



View of release extent during remediation activities, facing north (May 29, 2025).



View of release extent during remediation activities, facing northeast (May 29, 2025).

Project: Pipeline 1009

Entity: Enterprise Field Services LLC

Incident ID: nAPP2434522732



View of release extent during remediation activities, facing north (June 10, 2025).



View of release extent during remediation activities, facing west (June 10, 2025).

Project: Pipeline 1009
Entity: Enterprise Field Services LLC
Incident ID: nAPP2434522732



View of release extent during remediation activities, facing south (June 10, 2025).



View of release extent during remediation activities, facing east (June 10, 2025).

Project: Pipeline 1009

Entity: Enterprise Field Services LLC

Incident ID: nAPP2434522732



View of release extent during remediation activities, facing southwest (June 26, 2025).



View of release extent during remediation activities, facing northeast (June 26, 2025).



APPENDIX D

Table(s)

**TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PIPELINE 1009
ENTERPRISE FIELD SERVICES, LLC
LEA COUNTY, NEW MEXICO**

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Floor Soil Samples										
FS-01	06/26/2025	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-02	06/26/2025	16	<0.050	<0.300	<10.0	12.1	<10.0	12.1	12.1	16.0
FS-03	06/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-04	05/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-05	06/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-06	06/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-07	06/10/2025	2	<0.050	<0.300	<10.0	20.5	<10.0	20.5	20.5	<16.0
FS-08	06/10/2025	2	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	32.0
FS-09	06/10/2025	2	<0.050	<0.300	<10.0	18.8	<10.0	18.8	18.8	16.0
FS-10	06/10/2025	2	<0.050	<0.300	<10.0	14.4	<10.0	14.4	14.4	32.0
FS-11	06/11/2025	2	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	32.0
FS-12	06/10/2025	10	<0.050	<0.300	<10.0	16.7	<10.0	16.7	16.7	<16.0
FS-13	06/10/2025	10	<0.050	0.394	67.5	64.8	<10.0	132	132	<16.0
	06/26/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-14	06/10/2025	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS-15	06/10/2025	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS-16	06/10/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS-17	06/10/2025	10	<0.050	0.843	35.7	91.0	<10.0	127	127	<16.0
	06/26/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-18	06/10/2025	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-19	06/10/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-20	06/10/2025	2	<0.050	<0.300	<10.0	37.1	<10.0	37.1	37.1	32.0
FS-21	06/10/2025	2	<0.050	<0.300	<10.0	58.1	<10.0	58.1	58.1	16.0
FS-22	06/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-23	06/10/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-24	06/10/2025	2	<0.050	<0.300	<10.0	16.8	<10.0	16.8	16.8	32.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
PIPELINE 1009
ENTERPRISE FIELD SERVICES, LLC
LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS-25	06/10/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-26	06/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-27	06/10/2025	5	<0.050	<0.300	<10.0	16.2	<10.0	16.2	16.2	32.0
FS-28	06/10/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
	06/26/2025	16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Confirmation Sidewall Soil Samples										
SW-01	06/10/2025	0-8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-02	06/26/2025	0-16	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	64.0
SW-03	05/29/2025	0-2	<0.050	<0.300	<10.0	42.8	<10.0	42.8	42.8	32.0
SW-04	06/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-05	06/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-06	06/10/2025	0-2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW-07	06/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-08	06/10/2025	0-16	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
SW-09	06/10/2025	0-11	<0.050	<0.300	<10.0	10.0	<10.0	10.0	10.0	528
SW-10	06/10/2025	0-11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-11	06/11/2025	0-16	<0.050	1.13	64.3	365	<10.0	429	429	304
SW-12	06/26/2025	0-11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



TABLE 2 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS PIPELINE 1009 ENTERPRISE FIELD SERVICES, LLC LEA COUNTY, NEW MEXICO										
Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Backfill Soil Sample										
Lea Land Backfill	07/11/2025	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

Notes:

- bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.
- GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

TABLE 3
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
PIPELINE 1009
ENTERPRISE FIELD SERVICES, LLC
LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Delineation Soil Samples										
DS-01	05/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DS-01	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-02	05/19/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-02	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS-03	05/19/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
DS-03	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-04	05/20/2025	1	<0.050	0.903	533	702	<10.0	1,235	1,235	<16.0
DS-04	05/20/2025	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-05	05/20/2025	4	<1.00	154	4,040	1,500	<10.0	5,540	5,540	<16.0
DS-05	05/20/2025	10	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS-05	05/20/2025	12	<0.050	<0.300	10.0	<10.0	<10.0	10.0	10.0	160
DS-06	05/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
DS-06	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
DS-07	05/19/2025	1	<0.050	<0.300	<10.0	108	<10.0	108	108	16.0
DS-07	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-08	05/20/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS-08	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-09	05/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-09	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-10	05/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-10	05/27/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS-11 (Vertical)	05/27/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-11 (Vertical)	05/27/2025	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
DS-11 (Horizontal)	05/28/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912
DS-11 (Horizontal)	05/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,660
DS-12	05/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
DS-12	05/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
DS-12D	05/29/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
DS-12D	05/29/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-13	05/20/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-13	05/20/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



TABLE 3
DELINEATION SOIL SAMPLE ANALYTICAL RESULTS
PIPELINE 1009
ENTERPRISE FIELD SERVICES, LLC
LEA COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Delineation Soil Samples										
DS-14	05/20/2025	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
DS-14	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
DS-15	05/28/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,520
DS-15	05/20/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS-15	05/20/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS-15	05/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-16	05/28/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-16	05/28/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DS-17	05/29/2025	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
DS-17	05/29/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

May 23, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/20/25 13:35.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 07 1 (H253020-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54		
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03		
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38		
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22		
Total BTX	<0.300	0.300	05/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	108	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 07 4 (H253020-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54	
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03	
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38	
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22	
Total BTEX	<0.300	0.300	05/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 03 2 (H253020-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54	
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03	
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38	
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22	
Total BTX	<0.300	0.300	05/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/21/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 86.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 03 4 (H253020-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54		
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03		
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38		
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22		
Total BTEX	<0.300	0.300	05/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 02 1 (H253020-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54		
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03		
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38		
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22		
Total BTEx	<0.300	0.300	05/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/21/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 02 4 (H253020-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/21/2025	ND	2.13	107	2.00	2.54		
Toluene*	<0.050	0.050	05/21/2025	ND	2.30	115	2.00	3.03		
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.32	116	2.00	2.38		
Total Xylenes*	<0.150	0.150	05/21/2025	ND	7.18	120	6.00	2.22		
Total BTEX	<0.300	0.300	05/21/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 01 1 (H253020-07)

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	05/21/2025	ND	2.11	106	2.00	5.11		
Toluene*	<0.050	0.050	05/21/2025	ND	2.05	103	2.00	3.19		
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.09	104	2.00	3.92		
Total Xylenes*	<0.150	0.150	05/21/2025	ND	6.43	107	6.00	1.45		
Total BTEX	<0.300	0.300	05/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/21/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 86.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	32.464775, -103.490371		

Sample ID: DS - 01 4 (H253020-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/21/2025	ND	2.11	106	2.00	5.11	
Toluene*	<0.050	0.050	05/21/2025	ND	2.05	103	2.00	3.19	
Ethylbenzene*	<0.050	0.050	05/21/2025	ND	2.09	104	2.00	3.92	
Total Xylenes*	<0.150	0.150	05/21/2025	ND	6.43	107	6.00	1.45	
Total BTEx	<0.300	0.300	05/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/21/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	213	106	200	0.225	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	202	101	200	0.919	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 82.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST														
Project Manager: Kelly Lowrey		Company: Ensolum																		
Address: 3122 National Parks Hwy		Attn:																		
City: Carlsbad		Address:																		
Phone #: 214-733-3165		City:																		
Fax #:		State: NM																		
Project #: 03B1226345		Zip:																		
Project Name: Pipeline 1009		Phone #:																		
Project Location: 32.464775, -103.490371		Fax #:																		
Sampler Name: Mario Sarkis		PRESERV:		SAMPLING																
<small>FOR LAB USE ONLY</small>																				
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	BTEX	TPH	Chlorides										
	DS-07	1		1	GROUNDWATER	5/19/85	0947	✓	✓	✓										
	DS-07	4		1	WASTEWATER	0945	0945	✓	✓	✓										
	DS-03	2		1	SOIL		1004	✓	✓	✓										
	DS-03	4		1	OIL		1008	✓	✓	✓										
	DS-02	1		1	SLUDGE		1038	✓	✓	✓										
	DS-02	4		1	OTHER :		1044	✓	✓	✓										
	DS-01	1		1	ACID/BASE:		1050	✓	✓	✓										
	DS-01	4		1	ICE / COOL		1056	✓	✓	✓										
	DS-01	4		1	OTHER :															
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Relinquished By:		Date: 5-20-25		Received By:		Time: 1:35		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		REMARKS:										
Relinquished By:		Date:		Received By:		Time:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:		REMARKS:										
Delivered By: (Circle One)		Observed Temp. °C		Sample Condition		CHECKED BY:		Turnaround Time:		Standard		Bacteria (only)		Sample Condition						
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Intact		(Initials)		72-hr		Rush		Cool Intact		Observed Temp. °C						
		0.7		Yes		AS		13		100		Yes		Temp. °C						
				No								No								
† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com																				



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

May 27, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/21/25 9:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 05 12 (H253051-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00	QR-03
Toluene*	0.147	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10	QR-03
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20	QR-03
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16	QR-03
Total BTX	<0.300	0.300	05/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B			mg/kg		Analyzed By: KH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	05/22/2025	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	10.0	10.0	05/22/2025	ND	207	104	200	1.76	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	199	99.5	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 99.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



106

Page 4 of 4



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

May 27, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/21/25 9:57.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/21/2025	Sampling Date:	05/20/2025
Reported:	05/27/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Shalyn Rodriguez
Project Location:	32.464775, -103.490371		

Sample ID: DS - 05 4 (H253052-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	05/22/2025	ND	1.89	94.3	2.00	5.00	
Toluene*	40.0	1.00	05/22/2025	ND	1.83	91.4	2.00	6.10	
Ethylbenzene*	11.3	1.00	05/22/2025	ND	1.81	90.7	2.00	6.20	
Total Xylenes*	102	3.00	05/22/2025	ND	5.65	94.2	6.00	6.16	
Total BTX	154	6.00	05/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/22/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	4040	10.0	05/22/2025	ND	207	104	200	1.76		
DRO >C10-C28*	1500	10.0	05/22/2025	ND	199	99.5	200	2.69		
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND						

Surrogate: 1-Chlorooctane 168 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 08 2 (H253052-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	207	104	200	1.76	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	199	99.5	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 08 4 (H253052-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/22/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	207	104	200	1.76	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	199	99.5	200	2.69	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
Reported: 05/27/2025
Project Name: PIPELINE 1009
Project Number: 03B1226345
Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DS - 09 3 (H253052-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/22/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 56.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 54.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 09 4 (H253052-05)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 46.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 44.1 % 40.6-153

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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 05 10 (H253052-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEx	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 06 3 (H253052-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 99.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.5 % 40.6-153

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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 06 4 (H253052-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 14 3 (H253052-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.6 % 40.6-153

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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 14 4 (H253052-10)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 13 1 (H253052-11)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
Reported: 05/27/2025
Project Name: PIPELINE 1009
Project Number: 03B1226345
Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DS - 13 2 (H253052-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 15 1 (H253052-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 15 2 (H253052-14)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTX	<0.300	0.300	05/22/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
 Reported: 05/27/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 04 1 (H253052-15)

BTX 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00	GC-NC
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10	GC-NC
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20	GC-NC
Total Xylenes*	0.903	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16	GC-NC1
Total BTX	0.903	0.300	05/22/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 166 % 71.5-134

Chloride, SM4500CI-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/23/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	533	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	702	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 133 % 44.4-145

Surrogate: 1-Chlorooctadecane 117 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/21/2025
Reported: 05/27/2025
Project Name: PIPELINE 1009
Project Number: 03B1226345
Project Location: 32.464775, -103.490371

Sampling Date: 05/20/2025
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: DS - 04 5 (H253052-16)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/22/2025	ND	1.89	94.3	2.00	5.00		
Toluene*	<0.050	0.050	05/22/2025	ND	1.83	91.4	2.00	6.10		
Ethylbenzene*	<0.050	0.050	05/22/2025	ND	1.81	90.7	2.00	6.20		
Total Xylenes*	<0.150	0.150	05/22/2025	ND	5.65	94.2	6.00	6.16		
Total BTEx	<0.300	0.300	05/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/23/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/22/2025	ND	223	111	200	30.7	
DRO >C10-C28*	<10.0	10.0	05/22/2025	ND	182	91.0	200	13.1	
EXT DRO >C28-C36	<10.0	10.0	05/22/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
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-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Lowrey

P.O. #:

Address: 3122 National Parks Hwy

Company: Ensolum

City: Carlsbad

State: NM Zip: 88220

Attn:

Phone #: 214-733-3165

Fax #:

Address:

Project #: 03B1226345

Project Owner:

City:

Project Name: Pipeline 1009

State: NM Zip:

Project Location: 32.464775, -103.490371

Phone #:

Sampler Name: Mario Sarkis

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER:

ACID/BASE:

ICE / COOL

OTHER:

DATE

TIME

BTEX

TPH

Chlorides

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Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

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Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Observed Temp.: °C

Corrected Temp.: °C

Sample Condition

Cool Intact

Yes

No

Yes

No

Checked By:

(Initials)

Turnaround Time:

Thermometer ID:

Correction Factor:

Standard

Rush

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

Standard

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



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(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																				
Project Manager: Kelly Lowrey		P.O. #:																						
Address: 3122 National Parks Hwy		Company: Ensolum																						
City: Carlsbad		Attn:																						
State: NM Zip: 88220		Address:																						
Phone #: 214-733-3165 Fax #:		City:																						
Project #: 03B1226345 Project Owner:		State: NM Zip:																						
Project Name: Pipeline 1009		Phone #:																						
Project Location: 32.464775, -103.490371		Fax #:																						
Sampler Name: Mario Sarkis																								
FOR LAB USE ONLY																								
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING													
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chlorides						
H353052	DS-13	1	G	1										5/26/05	1145									
11	DS-13	2	G	1											1150									
12	DS-15	1	G	1											1342									
13	DS-15	2	G	1											1345									
14	DS-04	1	G	1											1354									
15	DS-04	5	G	1											1407									
16	DS-04																							
MPS																								
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether caused in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.																								
Relinquished By:		Date: 5/26/05	Received By:																					
Time: 09:57																								
Date:																								
Time:																								
Relinquished By:																								
Delivered By: (Circle One)		Observed Temp.: 33°C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time: 72-hr	Standard	Bacteria (only)	Sample Condition																
Sampler - UPS - Bus - Other:		Corrected Temp.: 30°C	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Rush <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp.: °C																
								Corrected Temp.: °C																

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

June 03, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/29/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 10 1' (H253213-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54		
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02		
Total BTX	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/30/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	189	94.4	200	1.85	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	177	88.3	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 10 3' (H253213-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54		
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02		
Total BTEX	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/30/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	189	94.4	200	1.85	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	177	88.3	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 11 1' (H253213-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54		
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02		
Total BTEX	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	05/30/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	189	94.4	200	1.85	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	177	88.3	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 99.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/27/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 11 6' (H253213-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.79	89.7	2.00	6.54		
Toluene*	<0.050	0.050	05/30/2025	ND	1.97	98.5	2.00	6.63		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	1.85	92.4	2.00	7.29		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	5.56	92.6	6.00	7.02		
Total BTEX	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/30/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	189	94.4	200	1.85	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	177	88.3	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 82.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

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

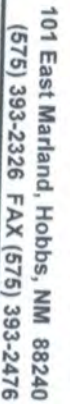
Cardinal Laboratories

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

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 7 of 7



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

June 03, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/29/25 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2025	Sampling Date:	05/28/2025
Reported:	06/03/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 11 1' (H253214-01)

BTX 8021B			mg/kg		Analyzed By: JH				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTX	<0.300	0.300	05/30/2025	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	05/30/2025	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 92.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 11 4' (H253214-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	05/30/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 12 2' (H253214-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/30/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 90.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.5 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 12 4' (H253214-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	05/30/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 93.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2025	Sampling Date:	05/28/2025
Reported:	06/03/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 15 0.5' (H253214-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEx	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1520	16.0	05/30/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 90.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 15 2' (H253214-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEX	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/30/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 05/29/2025
 Reported: 06/03/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 05/28/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 16 2' (H253214-07)

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	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/30/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/29/2025	Sampling Date:	05/28/2025
Reported:	06/03/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 16 4' (H253214-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/30/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	204	102	200	9.58	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	174	86.8	200	1.63	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 88.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolium		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kelly Lowry		Company: Ensolium			
Address: 601 Marland St STE 400		Attn:			
City: Midland		Address:			
State: TX Zip: 79701		City:			
Phone #: 214-733-3165 Fax #:		State:		Zip:	
Project #: 0391226345 Project Owner: Enterprise		City:		Zip:	
Project Name: Pipeline 1009		State:		Zip:	
Project Location: Eddy Co NM		Phone #:		Fax #:	
Sampler Name: Nicolaus christinos		Fax #:			

Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H253214	DS11	1'	C	1	SOIL	✓	✓	05/28/25	12:23	BTEX
	DS11	1'	C	1	SOIL	✓	✓	05/28/25	12:30	TPH
	DS12	2'	C	1	SOIL	✓	✓	05/28/25	14:06	Chloride
	DS12	2'	C	1	SOIL	✓	✓	05/28/25	14:12	
	DS15	0.5'	C	1	SOIL	✓	✓	05/28/25	11:28	
	DS15	2'	C	1	SOIL	✓	✓	05/28/25	12:03	
	DS16	2'	C	1	SOIL	✓	✓	05/28/25	12:53	
	DS16	2'	C	1	SOIL	✓	✓	05/28/25	12:59	

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Relinquished By: Nicolaus	Date: 5-23-25	Received By: Ensolium	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: Nicolaus	Date: 5-23-25	Received By: Ensolium	All Results are emailed. Please provide Email address:	
REMARKS: klowry@ensolium.com / kgennings@ensolium.com				

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact		Thermometer ID #140	Rush	Cool Intact	Observed Temp. °C
FORM-006 R.3.6 02/12/25	20.9	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ensolium	Correction Factor +0.3°C	3 Day TAT	Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

† Cardinal cannot accept verbal changes. Please email changes to celay.keene@cardinallabsnm.com



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

June 04, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 05/30/25 9:12.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 17 1' (H253237-01)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTX	<0.300	0.300	05/30/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 17 4' (H253237-02)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28	
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68	
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64	
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58	
Total BTEx	<0.300	0.300	05/30/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 12-D 1' (H253237-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEx	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: DS 12-D 2' (H253237-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEx	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 03 0-2' (H253237-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEx	<0.300	0.300	05/30/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	42.8	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 85.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/30/2025	Sampling Date:	05/29/2025
Reported:	06/04/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 04 2' (H253237-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2025	ND	1.97	98.3	2.00	4.28		
Toluene*	<0.050	0.050	05/30/2025	ND	2.09	105	2.00	2.68		
Ethylbenzene*	<0.050	0.050	05/30/2025	ND	2.07	104	2.00	1.64		
Total Xylenes*	<0.150	0.150	05/30/2025	ND	6.41	107	6.00	1.58		
Total BTEx	<0.300	0.300	05/30/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/02/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2025	ND	218	109	200	0.486	
DRO >C10-C28*	<10.0	10.0	05/30/2025	ND	213	106	200	1.84	
EXT DRO >C28-C36	<10.0	10.0	05/30/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: EnSoluna LLC				BILL TO				ANALYSIS REQUEST			
Project Manager: Jeffery Lowery				P.O. #:							
Address: 6014 Marland Dr. STE 400				Company: EnSoluna							
City: Marland				Attn:							
State: TX Zip: 79701				Address:							
Phone #: (214) 773-3165 Fax #:				City:							
Project #: 03B1226345 Project Owner: Enbridge				State: Zip:							
Project Location: Fed County NM				Phone #:							
Sampler Name: Nicholas Christensen				Fax #:							
<small>FOR LAB USE ONLY</small>											
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX		PRESERV.		SAMPLING
14533331	DS17	1'									DATE TIME 05/29/25 0917 0934 1206 1230 1359 1357
	DS17	4'									
	DS12-D	4'									
	DS12-D	2'									
	SW03	0-2'									
FS04	2'										
NFE			05/29/25			Nc					
<small>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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</small>											
Relinquished By: Nicholas Christensen				Date: 5/30/25				Received By: [Signature]			
Relinquished By:				Date: 5/30/25				Received By: [Signature]			
Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORN-006 R 3.6 02/12/25				Observed Temp. °C: -0.5 Corrected Temp. °C: -0.2				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) <input type="checkbox"/> Sample Condition <input type="checkbox"/>			
				Thermometer ID #140				Observed Temp. °C			
				Correction Factor +0.3°C				Corrected Temp. °C			
REMARKS: [Signature] @ ensoluna.com											

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

June 13, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 06/11/25 10:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 03 2 (H253469-01)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	196	97.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	196	98.1	200	4.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 05 2 (H253469-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 06 2 (H253469-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 118 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 07 2 (H253469-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	20.5	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 116 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 06/11/2025
 Reported: 06/13/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 06/10/2025
 Sampling Type: Solid
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS 08 2 (H253469-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57	
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10	
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56	
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21	
Total BTEX	<0.300	0.300	06/11/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	11.8	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 09 2 (H253469-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57	
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10	
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56	
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21	
Total BTEx	<0.300	0.300	06/11/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	18.8	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 135 % 44.4-145

Surrogate: 1-Chlorooctadecane 138 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 10 2 (H253469-07)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	14.4	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 125 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 11 2 (H253469-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	10.5	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 125 % 44.4-145

Surrogate: 1-Chlorooctadecane 128 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 12 10 (H253469-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	16.7	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 119 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 13 10 (H253469-10)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10	GC-NC	
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56	GC-NC	
Total Xylenes*	0.391	0.150	06/11/2025	ND	6.18	103	6.00	2.21	GC-NC1	
Total BTEX	0.391	0.300	06/11/2025	ND						GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	67.5	10.0	06/11/2025	ND	192	96.0	200	2.07		
DRO >C10-C28*	64.8	10.0	06/11/2025	ND	214	107	200	2.55		
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND						

Surrogate: 1-Chlorooctane 126 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 14 11 (H253469-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 15 11 (H253469-12)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 125 % 44.4-145

Surrogate: 1-Chlorooctadecane 131 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 16 16 (H253469-13)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEx	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 115 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 17 10 (H253469-14)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10	GC-NC	
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56	GC-NC	
Total Xylenes*	0.843	0.150	06/11/2025	ND	6.18	103	6.00	2.21	GC-NC1	
Total BTEX	0.843	0.300	06/11/2025	ND						GC-NC1

Surrogate: 4-Bromofluorobenzene (PID) 133 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	35.7	10.0	06/11/2025	ND	192	96.0	200	2.07		
DRO >C10-C28*	91.0	10.0	06/11/2025	ND	214	107	200	2.55		
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND						

Surrogate: 1-Chlorooctane 136 % 44.4-145

Surrogate: 1-Chlorooctadecane 142 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 18 8 (H253469-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 141 % 44.4-145

Surrogate: 1-Chlorooctadecane 145 % 40.6-153

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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 19 6 (H253469-16)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	06/11/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 133 % 44.4-145

Surrogate: 1-Chlorooctadecane 137 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 20 2 (H253469-17)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	37.1	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 123 % 44.4-145

Surrogate: 1-Chlorooctadecane 127 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 21 2 (H253469-18)

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	06/11/2025	ND	1.93	96.6	2.00	3.57	
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10	
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56	GC-NC
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21	GC-NC1
Total BTEX	<0.300	0.300	06/11/2025	ND					GC-NC1

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	58.1	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 22 2 (H253469-19)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 23 2 (H253469-20)

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	06/11/2025	ND	1.93	96.6	2.00	3.57		
Toluene*	<0.050	0.050	06/11/2025	ND	2.01	100	2.00	3.10		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	2.04	102	2.00	2.56		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	6.18	103	6.00	2.21		
Total BTEX	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 24 2 (H253469-21)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	192	96.0	200	2.07	
DRO >C10-C28*	16.8	10.0	06/11/2025	ND	214	107	200	2.55	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 121 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 25 3 (H253469-22)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 97.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.0 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 26 4 (H253469-23)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 27 5 (H253469-24)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	16.2	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 28 16 (H253469-25)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	752	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 01 0-8 (H253469-26)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 110 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 04 0-2 (H253469-27)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 05 0-2 (H253469-28)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.6 % 40.6-153

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 06 0-2 (H253469-29)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.1 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 07 0-4 (H253469-30)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 117 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.9 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 08 0-16 (H253469-31)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 97.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.7 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 09 0-11 (H253469-32)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.9 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 10 0-11 (H253469-33)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	<0.050	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93		
Ethylbenzene*	<0.050	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	<0.150	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	<0.300	0.300	06/11/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	<10.0	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.5 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/11/2025	Sampling Date:	06/10/2025
Reported:	06/13/2025	Sampling Type:	Solid
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Alyssa Parras
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 11 0-16 (H253469-34)

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	06/11/2025	ND	1.80	90.2	2.00	4.17		
Toluene*	0.144	0.050	06/11/2025	ND	1.83	91.6	2.00	3.93	GC-NC1	
Ethylbenzene*	0.057	0.050	06/11/2025	ND	1.83	91.3	2.00	5.95		
Total Xylenes*	0.928	0.150	06/11/2025	ND	5.63	93.9	6.00	7.09		
Total BTEX	1.13	0.300	06/11/2025	ND					GC-NC1	

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	06/11/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	64.3	10.0	06/11/2025	ND	213	107	200	1.11	
DRO >C10-C28*	365	10.0	06/11/2025	ND	201	101	200	1.12	
EXT DRO >C28-C36	<10.0	10.0	06/11/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701

Phone #: 214-733-3165 Email: Klowery@ensolum.com

Project #: 03B1226345 Project Owner

Project Name: Pipeline 1009 State: Zip:

Project Location: 32.464775, -103.490371 Phone #: Zip:

Sampler Name: Kaoru Shimada Email:

BILL TO

P.O. #: Company: Ensolum
Attn: Address:

City: State: Zip:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Sample Depth (in)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								ACID/BASE:
FS03		2	C	1										6/10/25	943	X	X	X
FS05		2	C	1										6/10/25	945	X	X	X
FS06		2	C	1										6/10/25	946	X	X	X
FS07		2	C	1										6/10/25	948	X	X	X
FS08		2	C	1										6/10/25	949	X	X	X
FS09		2	C	1										6/10/25	950	X	X	X
FS10		2	C	1										6/10/25	1033	X	X	X
FS11		2	C	1										6/10/25	1034	X	X	X
FS12		10	C	1										6/10/25	1525	X	X	X
FS13		10	C	1										6/10/25	1526	X	X	X

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Relinquished By: *[Signature]* **Date:** 6-11-25 **Received By:** *[Signature]* **Date:** 6-11-25

Relinquished By: *[Signature]* **Date:** 6-11-25 **Received By:** *[Signature]* **Date:** 6-11-25

Delivered By: (Circle One) **Observed Temp. °C:** 8.9°C **Corrected Temp. °C:** 3.0°C

Sampler - UPS - Bus - Other: ☒ UPS ☐ Bus ☐ Other

Sample Condition: ☒ Cool ☒ Intact ☐ No ☐ No

CHECKED BY: (Initials) *[Signature]*

Thermometer ID: 1113 **Standard:** ☒ **Observed Temp. °C:** 8.9°C **Correction Factor:** -0.5°C **Corrected Temp. °C:** 8.4°C

REMARKS: Paykey/AFE/NonAFE: 3-Day TAT

Verbal Result: ☐ Yes ☒ No **Add'l Phone #:**

All Results are emailed. Please provide Email address: klowery@ensolum.com

FORM-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST															
Project Manager: Kelly Lowery				P.O. #:																			
Address: 601 N. Marland St. STE 400				Company: Ensolum																			
City: Midland State: TX Zip: 79701				Attn:																			
Phone #: 214-733-3165 Email: klowery@ensolum.com				Address:																			
Project #: 03B1226345				City:																			
Project Name: Pipeline 1009				State:																			
Project Location: 32.46475, -103.490371				Zip:																			
Sampler Name: Kaoru Shimada				Phone #:																			
Email:																							
FOR LAB USE ONLY																							
Lab I.D.	Sample I.D.	Sample Depth (in)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING														
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500					
1053404	SW08	0-16	C	1	X									6/10/25	1501	X	X	X					
33	SW09	0-11	C	1	X									6/10/25	1143	X	X	X					
33	SW10	0-11	C	1	X									6/10/25	1342	X	X	X					
31	SW11	0-16	C	1	X									6/10/25	1337	X	X	X					
VFE		SK		6-10-2025																			
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Relinquished By: [Signature]				Date: 6-11-25				Received By: [Signature]				Date: 6-11-25				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				Add'l Phone #:			
Relinquished By: [Signature]				Date: 6-11-25				Received By: [Signature]				Date: 6-11-25				REMARKS: Paykey/AFF/NonAFE: 3-Day TAT							
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 39.1				Corrected Temp. °C: 38.1				Sample Condition: Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) AS				Thermometer ID: #140			



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

July 01, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 06/27/25 9:52.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celely D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 01 11 (H253896-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88	
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07	
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87	
Total BTEX	<0.300	0.300	06/27/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 89.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 02 16 (H253896-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEX	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	12.1	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 97.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 13 10 (H253896-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEx	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 17 10 (H253896-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEX	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	06/27/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 95.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: FS 28 16 (H253896-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEX	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 06/27/2025
 Reported: 07/01/2025
 Project Name: PIPELINE 1009
 Project Number: 03B1226345
 Project Location: ENTERPRISE - EDDY CO., NM

Sampling Date: 06/26/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 02 0-16 (H253896-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92	GC-NC	
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEx	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	06/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	42.8	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 95.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	06/27/2025	Sampling Date:	06/26/2025
Reported:	07/01/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Tamara Oldaker
Project Location:	ENTERPRISE - EDDY CO., NM		

Sample ID: SW 12 0-11 (H253896-07)

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	06/27/2025	ND	1.93	96.3	2.00	4.88		
Toluene*	<0.050	0.050	06/27/2025	ND	2.01	101	2.00	3.07		
Ethylbenzene*	<0.050	0.050	06/27/2025	ND	1.99	99.7	2.00	2.92		
Total Xylenes*	<0.150	0.150	06/27/2025	ND	5.88	98.0	6.00	2.87		
Total BTEX	<0.300	0.300	06/27/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	06/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/27/2025	ND	213	106	200	5.66	
DRO >C10-C28*	<10.0	10.0	06/27/2025	ND	215	107	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	06/27/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

July 14, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: PIPELINE 1009

Enclosed are the results of analyses for samples received by the laboratory on 07/11/25 11:19.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C25-00101. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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Analytical Results For:

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

Received:	07/11/2025	Sampling Date:	07/11/2025
Reported:	07/14/2025	Sampling Type:	Soil
Project Name:	PIPELINE 1009	Sampling Condition:	Cool & Intact
Project Number:	03B1226345	Sample Received By:	Shalyn Rodriguez
Project Location:	32.464775, -103.490371		

Sample ID: LEA LAND BACKFILL (H254142-01)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/11/2025	ND	1.73	86.3	2.00	10.4		
Toluene*	<0.050	0.050	07/11/2025	ND	1.79	89.7	2.00	10.8		
Ethylbenzene*	<0.050	0.050	07/11/2025	ND	1.79	89.4	2.00	9.84		
Total Xylenes*	<0.150	0.150	07/11/2025	ND	5.24	87.3	6.00	10.4		
Total BTX	<0.300	0.300	07/11/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	07/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2025	ND	209	105	200	0.434	
DRO >C10-C28*	<10.0	10.0	07/11/2025	ND	201	101	200	0.0531	
EXT DRO >C28-C36	<10.0	10.0	07/11/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

Released to Imaging: 9/12/2025 11:47:15 AM

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

QUESTIONS

Action 487641

QUESTIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2434522732
Incident Name	NAPP2434522732 PIPELINE 1009 @ FAPP2122928745
Incident Type	Release Other
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	PIPELINE 1009
Date Release Discovered	12/09/2024
Surface Owner	State

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other Pipeline (Any) Produced Water Released: 15 BBL Recovered: 8 BBL Lost: 7 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	<i>Unavailable.</i>
<i>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.</i>	

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	<i>Not answered.</i>

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 07/22/2025
--	--

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QUESTIONS, Page 3

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	487641
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Site Characterization	
<i>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.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	752
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	429
GRO+DRO (EPA SW-846 Method 8015M)	429
BTEX (EPA SW-846 Method 8021B or 8260B)	1.2
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	05/29/2025
On what date will (or did) the final sampling or liner inspection occur	06/26/2025
On what date will (or was) the remediation complete(d)	06/26/2025
What is the estimated surface area (in square feet) that will be reclaimed	5671
What is the estimated volume (in cubic yards) that will be reclaimed	1222
What is the estimated surface area (in square feet) that will be remediated	5671
What is the estimated volume (in cubic yards) that will be remediated	1222
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 07/22/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS, Page 6

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID:
	241602
	Action Number:
	487641
Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	477915
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/27/2025
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	5600

Remediation Closure Request	
<i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>	
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	5671
What was the total volume (cubic yards) remediated	1222
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	5671
What was the total volume (in cubic yards) reclaimed	1222
Summarize any additional remediation activities not included by answers (above)	Backfill of the excavation will be completed in the following weeks subsequent to the completion of pipeline repairs. Post backfill photos will be included in the Reclamation Report.
<i>The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Julianna Falcomata Title: Field Environmental Scientist Email: JRFalcomata@eprod.com Date: 07/22/2025

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QUESTIONS, Page 7

Action 487641

QUESTIONS (continued)

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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CONDITIONS

Action 487641

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 487641
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	9/12/2025