



REVISED REMEDIATION CLOSURE REPORT

Property:

Maris Federal #001

**Unit C, S9, T26S, R29E
32.061967° N, 103.991238° W
Eddy County, New Mexico
API: 30-015-27011
NMOCD Incident ID: nAPP2402241037**

June 19, 2025


Ensolum Project No. 03B1417142

Prepared for:


**Oxy USA, Inc.
PO Box 4324
Houston, Texas 77210**

Attn: Jessica Kent

Prepared by:



Kelly Lowery, GI
Project Geologist



Beaux Jennings
Associate Principal

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32.061967° N, 103.991238° W
Eddy County, New Mexico
API: 30-015-27011
NMOCD Incident ID: nAPP2402241037****Ensolum Project No. 03B1417142****1.0 INTRODUCTION****1.1 Site Description and Background**

Operator:	Oxy USA, INC.
Site Name:	Maris Federal #001
Location:	Unit C, Section 9, Township 26 South, Range 29 East American Petroleum Institute (API): 30-015-27011 32.061967° N, 103.991238° W Eddy County, New Mexico
Property:	Federal land managed by the Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On January 21, 2024, Oxy had a release of produced oil at the Site due to seal/packing issues on the wellhead. Approximately 10 barrels (bbls) of produced oil were released onto the ground surface and partly off-pad along Pioneer Natural Resources' (Pioneer) right-of-way (ROW). The well was shut in for repairs, and a vacuum truck was immediately deployed to the Site to recover the remaining standing fluid, with 6 bbls of produced oil recovered. Oxy subsequently reported the release to the New Mexico EMNRD OCD via a report through the online notice of release (NOR) form on January 22, 2024. The release was assigned Incident Number nAPP2402241037.

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**.

Subsequent to excavation and remediation activities, a Closure Report was prepared and submitted to the New Mexico EMNRD OCD on November 22, 2024, for approval. On December 30, 2024, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.

The denial correspondence can be found as **Supporting Documentation** in **Appendix B**.

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 Oxy, 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.
- The Site is 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.
- The Site is located within 300 feet of a wetland.
- 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 an unstable area, also referred to as medium 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 January 21, 2024, Oxy had a release of produced oil at the Site due to seal/packing issues on the wellhead. Approximately 10 bbls of produced oil were released onto the ground surface and partly off-pad along the Pioneer ROW. The well was shut in for repairs and a vacuum truck was immediately deployed to the Site to recover the remaining standing fluid, with 6 bbls of produced oil recovered. Following the submittal of an emergency New Mexico One-Call (NM-811), corrective action activities were commenced by Tex-Mex Rentals and Services (Tex-Mex) utilizing a backhoe, pressure washer, and a skid steer to scrape and remove impacted soils.

On March 5, 2024, Ensolum arrived on-Site to collect 108 composite soil samples from the excavation floor (FS-1 through FS-108) at depths ranging from 3 to 18 inches below ground surface (bgs) and five composite soil samples from the excavation sidewalls (SW-1 through SW-5) at depths of 0-18 inches bgs. Additionally, six confirmation delineation soil samples (DS-1 through DS-6) were collected at locations between one and two feet outside of the excavation area at a depth of 0-3 inches bgs. Based on laboratory analytical data, additional excavation and/or remediation was required.

On April 29, 2024, subsequent to additional excavation activities, Ensolum arrived on-Site to collect seven composite soil samples from the excavation floor (FS-28, FS-29, FS-30, FS-65, FS-66, FS-78, and FS-87) at depths ranging from 3 to 24 inches bgs, and six composite soil samples from the excavation sidewalls (SW-28, SW-29, SW-30, SW-65, SW-66, and SW-87) at depths of 0-24 inches bgs.

On May 10, 2024, and July 2, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect three composite soil samples from the excavation floor (FS-27, FS-34, and FS-51) at depths ranging from 6 to 20 inches bgs, and three composite soil samples from the excavation sidewalls (SW-1, SW-3, and SW-5) at depths ranging from 0-18 to 0-36 inches bgs.

After careful review of the previous sampling events, it was determined that additional sampling was needed. On October 23, 2024, Ensolum arrived on-Site to collect 32 composite soil samples from the excavation floor (FS-2, FS-5, FS-6, FS-8, FS-10, FS-12, FS-13, FS-15, FS-18, FS-58 through FS-64, FS-67 through FS-79, and FS-84 through FS-86) at depths ranging from 4-19 inches bgs utilizing hand tools to collect the 5-point composite samples.



On November 22, 2024, a Closure Report was prepared and submitted to the New Mexico EMNRD OCD for approval.

On December 30, 2024, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.

From March 18, 2025 through May 12, 2025, based on the request from the New Mexico EMNRD OCD and subsequent to excavation activities to remove soils in the areas of concern, Ensolum was on-Site to collect 42 composite soil samples from the excavation floor (FS-2, FS-5, FS-6, FS-8, FS-10, FS-12, FS-13, FS-15, FS-18, FS-27 through FS-31, FS-34, FS-51, FS-58 through FS-79, and FS-84 through FS-87) at depths ranging from 4 to 144 inches bgs and 18 composite soil samples from the excavation sidewalls (SW-1, SW-3, SW-5, and SW-06 through SW-20) at depths ranging from 0-12 inches to 0-144 inches bgs. During this time, excavation sidewall soil samples SW-28 through SW-30, SW-65, SW-66, and SW-87 were removed due to additional excavation activities in these areas.

Based on 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 chlorides in accordance with the New Mexico EMNRD OCD Closure Criteria for Soils Impacted by a Release (≤ 50 feet) (NMOCD Closure Criteria).

The final excavation area measured approximately 190 feet long and 167 feet wide at the maximum extents, with a depth ranging from 3 to 144 inches bgs.

The lithology encountered during the completion of closure activities consisted primarily of gravelly loam, with some stony loam present.

The excavation measured approximately 21,687 square feet in arial extent. A total of approximately 1,134 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. After confirmation sampling was completed, the backfill of the excavation was completed utilizing material purchased locally from the OnSuarez Pit and re-contoured to match pre-existing conditions. A BLM-approved seed mixture will be sown into the pasture area near the Pioneer ROW as outlined in the Reclamation Plan.

Figure 3 is a map that identifies approximate soil sample locations and depicts 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 March 5, 2024, through May 12, 2025, included the collection of a total of 192 composite soil samples from 108 locations from the excavation floor (FS-1 through FS-108), 32 composite soil samples from 26 locations from the excavation sidewalls (SW-1 through SW-5, SW-06 through SW-20, SW-28, SW-29, SW-30, SW-65, SW-66, and SW-87), and six delineation soil samples from six locations around the excavation (DS-1 through DS-6). Additionally, one composite soil sample was collected from the backfill material (OnSuarez Pit) on September 30, 2024, prior to use at the Site.

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** and **Table 2** 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 collected from the excavation extent and overspray extent were compared to the NMOCD Closure Criteria for Soils Impacted by a Release.

- 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.
- 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.

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

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. A composite soil sample was collected from the backfill material (OnSuarez Pit) prior to use at the Site. The excavated area was backfilled with clean fill material and then contoured to the original surrounding grade. The release occurred both on-pad and in the pasture along the Pioneer ROW and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the vegetative zone that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area:

- The excavation was backfilled with locally sourced caliche and topsoil to match the surrounding grade;



- Soil in the vicinity of the release includes predominately gravelly loam, with some stony loam present;
- The off-pad backfilled areas will be seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region: Pecos District, BLM Seed Mix for Loamy, SD-3 Ecological Site.
- The seed mixture will be distributed with one of the following methods: push broadcaster seed spreader / tractor-operated broadcast seed spreader / drill seeding / other means;
- Application of the seed mixture will be at a coverage of either 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method, whichever is more applicable;
- Erosion control management will potentially include:
 - The placement of waddles in areas with a propensity for high run-off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation has already been completed;
- Seeding will be completed in the spring/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;
- Annual inspections (at a minimum) will take place on the location until revegetation is consistent with local natural vegetation density. The Site will be inspected the following Spring/Fall to assess the success of regrowth. If necessary, an additional application of the BLM-approved pure live seed mixture will be applied as well as any needed BMPs will be installed to support growth and limit erosion.

8.0 FINDINGS AND RECOMMENDATION

- On January 21, 2024, Oxy had a release of produced oil at the Site due to seal/packing issues on the wellhead. Approximately 10 bbls of produced oil were released onto the ground surface and partly off-pad along the Pioneer ROW. The well was shut in for repairs, and a vacuum truck was immediately deployed to the Site to recover the remaining standing fluid, with 6 bbls of produced oil recovered.
- On November 22, 2024, subsequent to excavation and remediation activities, a Closure Report was prepared and submitted to the New Mexico EMNRD OCD for approval.
- On December 30, 2024, the New Mexico EMNRD OCD rejected the Closure Report. Steps were subsequently taken by Oxy to address the requirements needed for closure.
- Ensolum's soil sampling program from March 5, 2024, through May 12, 2025, included the collection of a total of 192 composite soil samples from 108 locations from the excavation floor (FS-1 through FS-108), 32 composite soil samples from 26 locations



from the excavation sidewalls (SW-1 through SW-5, SW-06 though SW-20, SW-28, SW-29, SW-30, SW-65, SW-66, and SW-87), and six delineation soil samples from six locations around the excavation (DS-1 through DS-6). Additionally, one composite soil sample was collected from the backfill material (OnSuarez Pit) prior to use at the Site. The soil samples were collected at depths ranging from 3 to 144 inches 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.
- The final excavation area measured approximately 190 feet long and 167 feet wide at the maximum extents, with a depth ranging from 3 to 144 inches bgs.
- Based on laboratory analytical results, the final composite soil samples within the impacted area, final confirmation delineation soil samples, and the backfill material did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO, or chloride concentrations above the applicable NMOCD Closure Criteria.
- After completion of confirmation sampling, the backfill of the excavation was completed utilizing material purchased locally from the OnSuarez Pit and recontoured to match pre-existing conditions. A BLM-approved seed mixture will be sown into the pasture area along the Pioneer pipeline ROW as outlined in the Reclamation Plan.

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 Oxy USA Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site)



Oxy USA, Inc.
Revised Remediation Closure Report
Maris Federal #001

June 19, 2025

Page 8

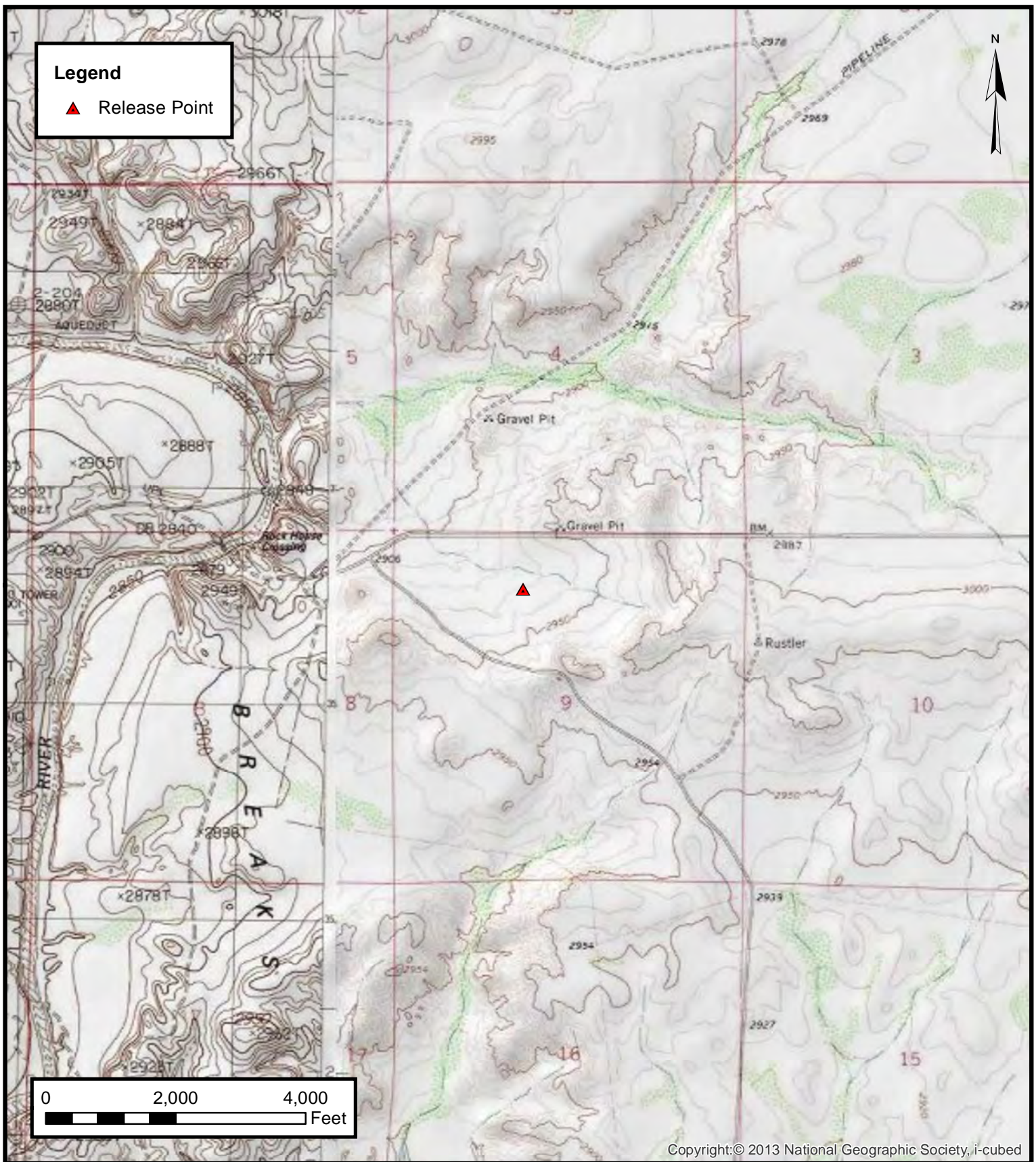
is prohibited without the express written authorization of Oxy USA Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions, and limitations stated in the Closure Report and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.





APPENDIX A

Figures



Topographic Map

Oxy USA Inc.

Maris Federal #001

32.061967° N, 103.991238° W

Eddy County, New Mexico

PROJECT NUMBER: 03B1417142

FIGURE

1

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Site Vicinity Map

Oxy USA Inc.

Maris Federal #001

32.061967° N, 103.991238° W

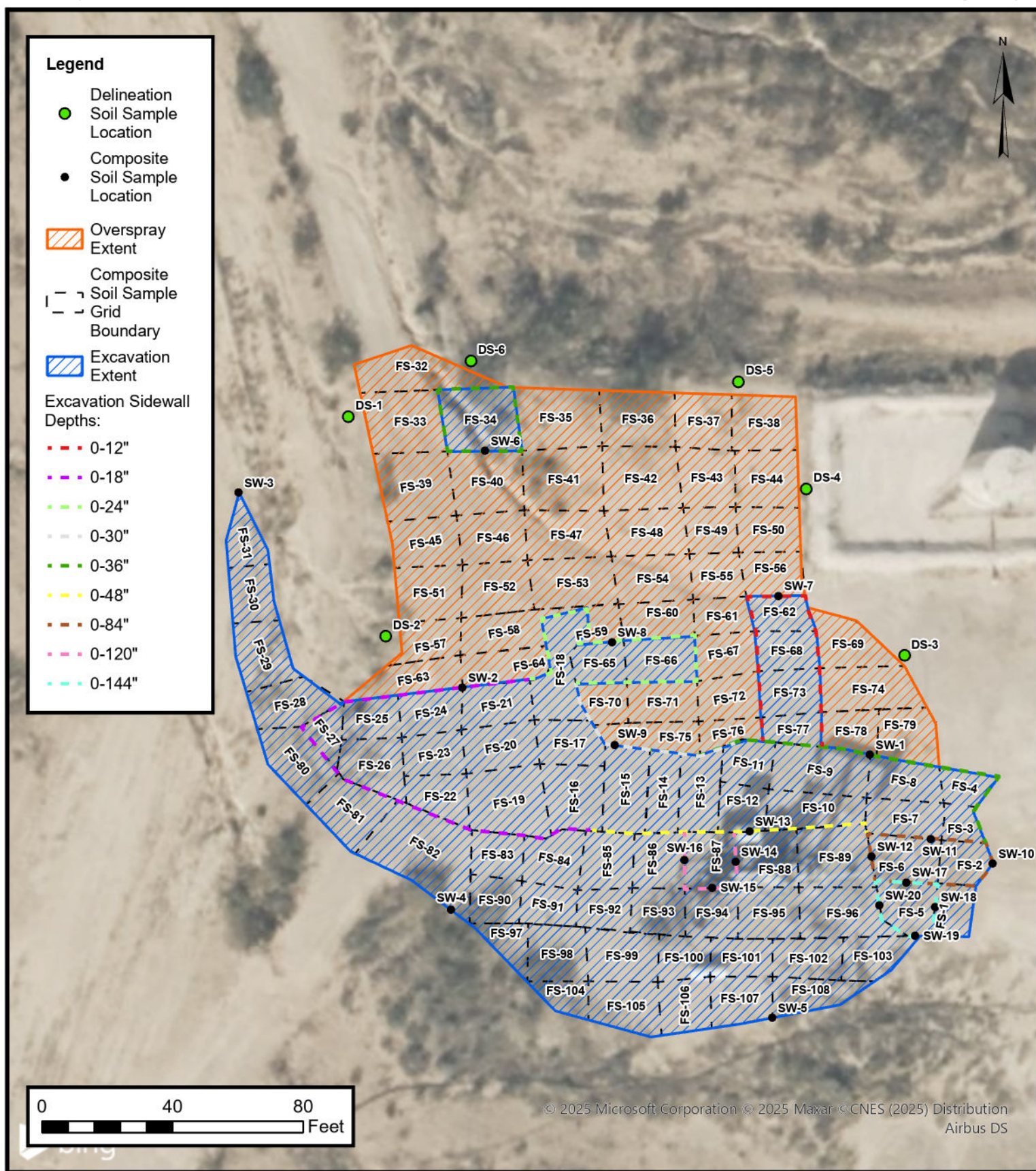
Eddy County, New Mexico

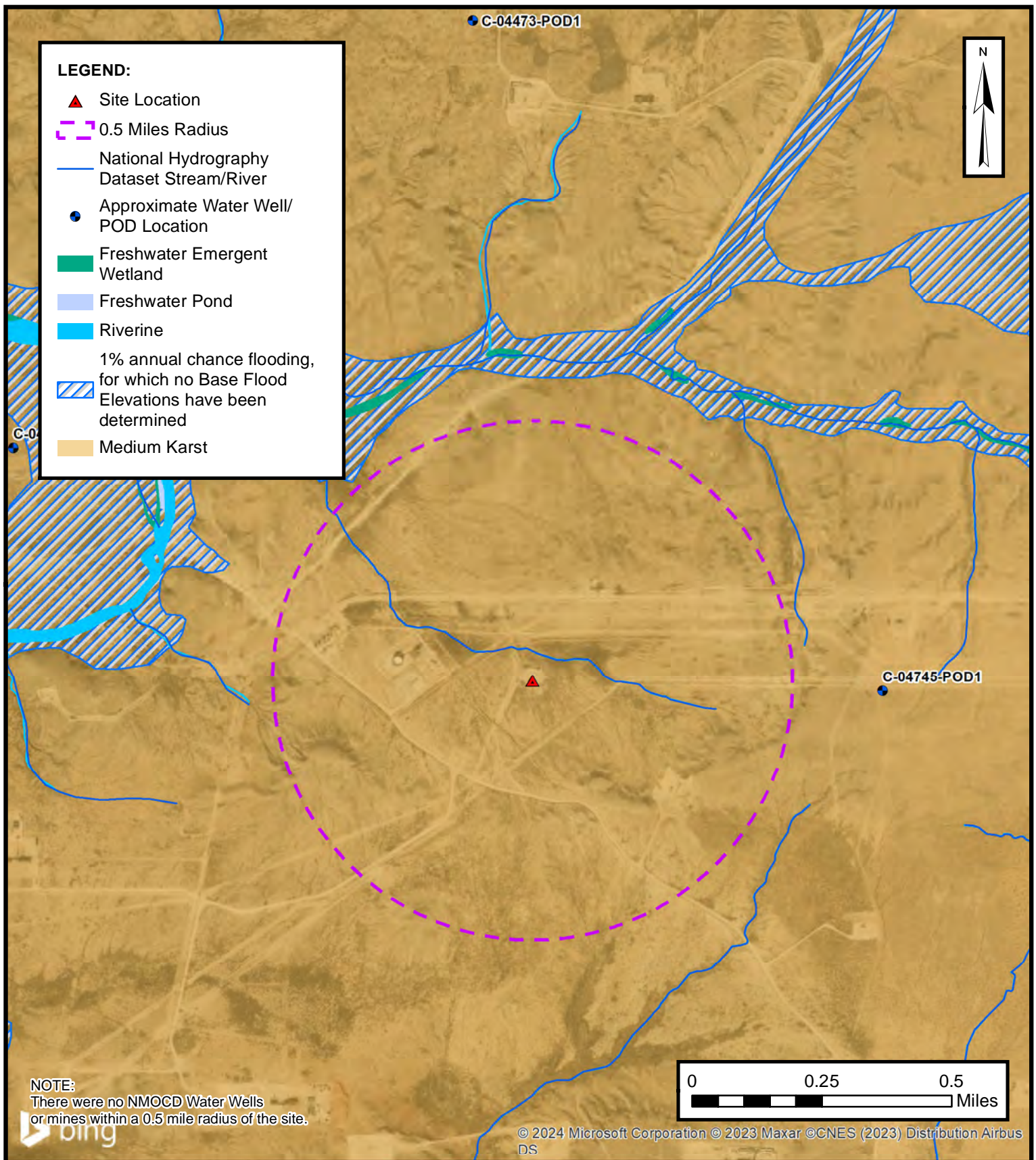
PROJECT NUMBER: 03B1417142

FIGURE

2

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants





Closure Criteria Map

Oxy USA Inc.
Maris Federal #001
32.061967° N, 103.991238° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417142

FIGURE
4

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



Backfill Site Map

Onsuarez Pit
32.2443611° N, 104.0383333° W
Eddy County, New Mexico

FIGURE
5



APPENDIX B

Supporting Documentation

Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Wednesday, March 20, 2024 3:18 PM
To: Kelly Lowery
Cc: Wade_Dittrich@oxy.com; Tyson_Pierce@oxy.com; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: RE: [EXTERNAL] Maris Federal #001 (Incident ID: nAPP2402241037) - Closure Criteria Variance Request

You don't often get email from robert.hamlet@emnrd.nm.gov. [Learn why this is important](#)

[**EXTERNAL EMAIL**]

Kelly,

The closure criteria variance request to reflect groundwater >100 feet is denied. The borehole located 0.67 miles east of the release area is outside of the ½ mile requirement. There appears to be no wells within a 1/2 radius of the release location over 100' depth to groundwater. If you feel the depth to groundwater is >100', a shallow borehole can be drilled to 101' allowing for verification of the depth. If water is not visible after reaching bottom-hole and waiting 72 hours, the OCD will accept this as evidence. We would just need a copy of the driller's log.

Regards,

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, March 20, 2024 1:18 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Maris Federal #001 (Incident ID: nAPP2402241037) - Closure Criteria Variance Request

From: Kelly Lowery <klowery@ensolum.com>
Sent: Wednesday, March 20, 2024 12:10 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Maris Federal #001 (Incident ID: nAPP2402241037) - Closure Criteria Variance Request

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

Good afternoon,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a Closure Criteria Variance for the Maris Federal #001 (Incident ID: nAPP2402241037), hereinafter referred to as the "Site", for the following: DTW at the Site and proximity to a "Wetland".

Maris Federal #001 (Incident ID: nAPP2402241037)

- A stuffing box malfunctioned resulting in approximately 10 barrels of oil to be released, with the majority of the release remaining on-pad. Oxy immediately recovered 6 barrels of the oil. The Site will be vertically and laterally delineated per NMAC 19.15.29.

Attached is groundwater research from the surrounding area of the release Site. The closest NMOSE well indicates depth to groundwater greater than 100 feet bgs. The nearest borehole (C-04745-POD1) with depth to groundwater data is located 0.67 miles east of the Site and has a recorded total depth of the well at 106 feet bgs with no groundwater encountered from April 2023.

Additionally, although the National Wetlands Inventory website depicts a "Wetland Riverine" to the north of the Site, the USGS National Water Dashboard does not define this area as a "Wetland Riverine" and has no symbology present for any type of continuously flowing watercourse or significant watercourse. Photos collected with the "Wetland Riverine" are included in Attachment A, which also depicts the Site Criteria for the area and the proximity of the aforementioned NMOSE well (C-04745-POD1). A screenshot of the Site on the USGS National Water Dashboard is also included.

The National Wetlands Inventory defines a Riverine as the following: *The Riverine System includes all wetlands and deepwater habitats contained within a channel, with two exceptions: (1) wetlands dominated by trees, shrubs, persistent emergent, emergent mosses, or lichens, and (2) habitats with water containing ocean-derived salts of 0.5 ppt or greater. A channel is an open conduit either naturally or artificially created which periodically or continuously contains moving water, or which forms a connecting link between two bodies of standing water.*

As defined in NMAC 19.15.17.7:

"Continuously Flowing Watercourse" means a river, stream or creek that is named or delineated by a solid blue line on a USGS quadrangle map having a scale factor of 1:24,000, or an irrigation channel, or a water course that typically has water flowing during the majority of days of the year. This does not include ephemeral washes, arroyos, and similar depressions that do not have flowing water during the majority of the days of the year.

"Significant Watercourse" means a watercourse with a defined bed and bank either named or identified by a dashed blue line on a USGS 7.5 minute quadrangle map or the next lower tributary with a defined bed and bank of such watercourse.

Based on the above statements regarding DTW at the Site being greater than 100 feet bgs, and that the USGS National Water Dashboard does not recognize the area to the north of the Site having a "Wetland Riverine" channel, continuously flowing watercourse, or a significant watercourse as defined in NMAC 19.15.17.7, Ensolum requests a Closure Criteria Variance to reflect groundwater >100 feet as shown in Table 1 of 19.15.29.12 NMAC for on-pad remediation, and for any off-pad remediation greater than 4 feet bgs.

Please let me know if you have any questions,



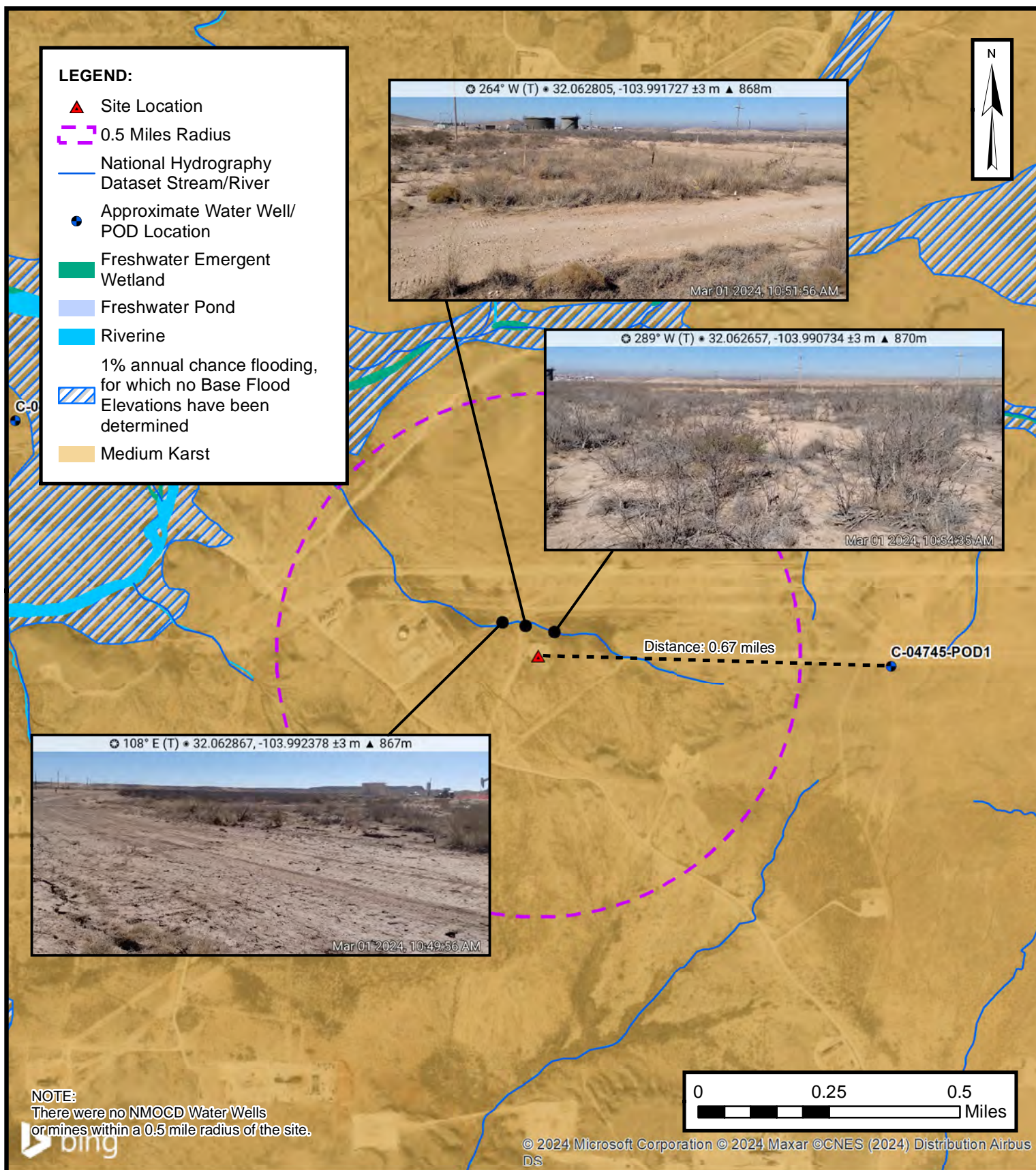
Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC





Closure Criteria Map

Oxy USA Inc.
Maris Federal #001
32.061967° N, 103.991238° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417142

ATTACHMENT

A

ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging.

I. FILING FEE: There is no filing fee for this form.

II. GENERAL / WELL OWNERSHIP:

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged: To be assigned C-4745-Pod1

Name of well owner: Solaris Water Midstream

Mailing address: 3305 Boyd Drive

City: Carlsbad State: NM Zip code: 88220

Phone number: 469-978-5620 E-mail: rob.kirk@solariswater.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: Jason Maley with Vision Resources

New Mexico Well Driller License No.: WD 1690 Expiration Date: 10/07/2023

WD 1833

IV. WELL INFORMATION:

Note: A copy of the existing Well Record for the well to be plugged should be attached to this plan.

- 1) GPS Well Location: Latitude: 32 deg, 03 min, 42.7680 sec
Longitude: 103 deg, 58 min, 47.3880 sec, WGS84
☐ Check if seconds are decimal format.

- 2) Reason(s) for plugging well:

The test boring will be drilled to evaluate for the absence or presence of groundwater less than 105-ft at salt water spill location.

- 3) Was well used for any type of monitoring program? no If yes, please use section VII of this form to detail what hydrogeologic parameters were monitored. If the well was used to monitor contaminated or poor quality water, authorization from the New Mexico Environment Department may be required prior to plugging.

- 4) Does the well tap brackish, saline, or otherwise poor quality water? no, dry If yes, provide additional detail, including analytical results and/or laboratory report(s):

OSE DT MAY 18 2023 PM 2:40

- 5) Static water level: no water feet below land surface / feet above land surface (circle one)

- 6) Depth of the well: ~106 feet

- 7) Inside diameter of innermost casing: no casing inches.
- 8) Casing material: no casing
- 9) The well was constructed with:
☒ an open-hole production interval, state the open interval: no water, test boring only, open 0 to TD
☐ a well screen or perforated pipe, state the screened interval(s): no water, no well constructed
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? no casing or gravel pack
- 11) Was the well built with surface casing? no well If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? no seal If yes, please describe:

open 6.25-inch boring
- 12) Has all pumping equipment and associated piping been removed from the well? none installed If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING:

Note: If this plan proposes to plug an artesian well in a way other than with cement grout, placed bottom to top with a tremie pipe, a detailed diagram of the well showing proposed final plugged configuration shall be attached, as well as any additional technical information, such as geophysical logs, that are necessary to adequately describe the proposal.

- 1) Describe the method by which cement grout shall be placed in the well, or describe requested plugging methodology proposed for the well:

Well to be plugged with bentonite chips. Hydrate at 5-gallons per sack. Bentonite and water added in lifts. Bentonite below 20-ft to total depth will be tremied in.
- 2) Will well head be cut-off below land surface after plugging? no well head

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 22.4-cubic feet
- 4) Type of Cement proposed: no cement
- 5) Proposed cement grout mix: no slurry gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: NA batch-mixed and delivered to the site
NA mixed on site

OCD OCT MAY 18 2023 PM 2:49

- 7) Grout additives requested, and percent by dry weight relative to cement:

Grout not planned

- 8) Additional notes and calculations:

VII. ADDITIONAL INFORMATION: List additional information below, or on separate sheet(s):

Boring to be drilled as a test boring to 106-ft. Will add bentonite chips and water in lifts to abandon.

VIII. SIGNATURE:

I, Rob Kirk, say that I have carefully read the foregoing Well Plugging Plan of Operations and any attachments, which are a part hereof; that I am familiar with the rules and regulations of the State Engineer pertaining to the plugging of wells and will comply with them, and that each and all of the statements in the Well Plugging Plan of Operations and attachments are true to the best of my knowledge and belief.

[Signature]
Signature of Applicant

4/29/23
Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

DOE DOY MAY 18 2023 PM2:43

☒ Approved subject to the attached conditions.
☐ Not approved for the reasons provided on the attached letter.

Witness my hand and official seal this 5th day of June, 2023

Mike A. Hamman, P.E., New Mexico State Engineer

By: [Signature]

Samantha Davis

Water Resources Professional II



Well Plugging Plan
Version: 06/30/2017
Page 3 of 5

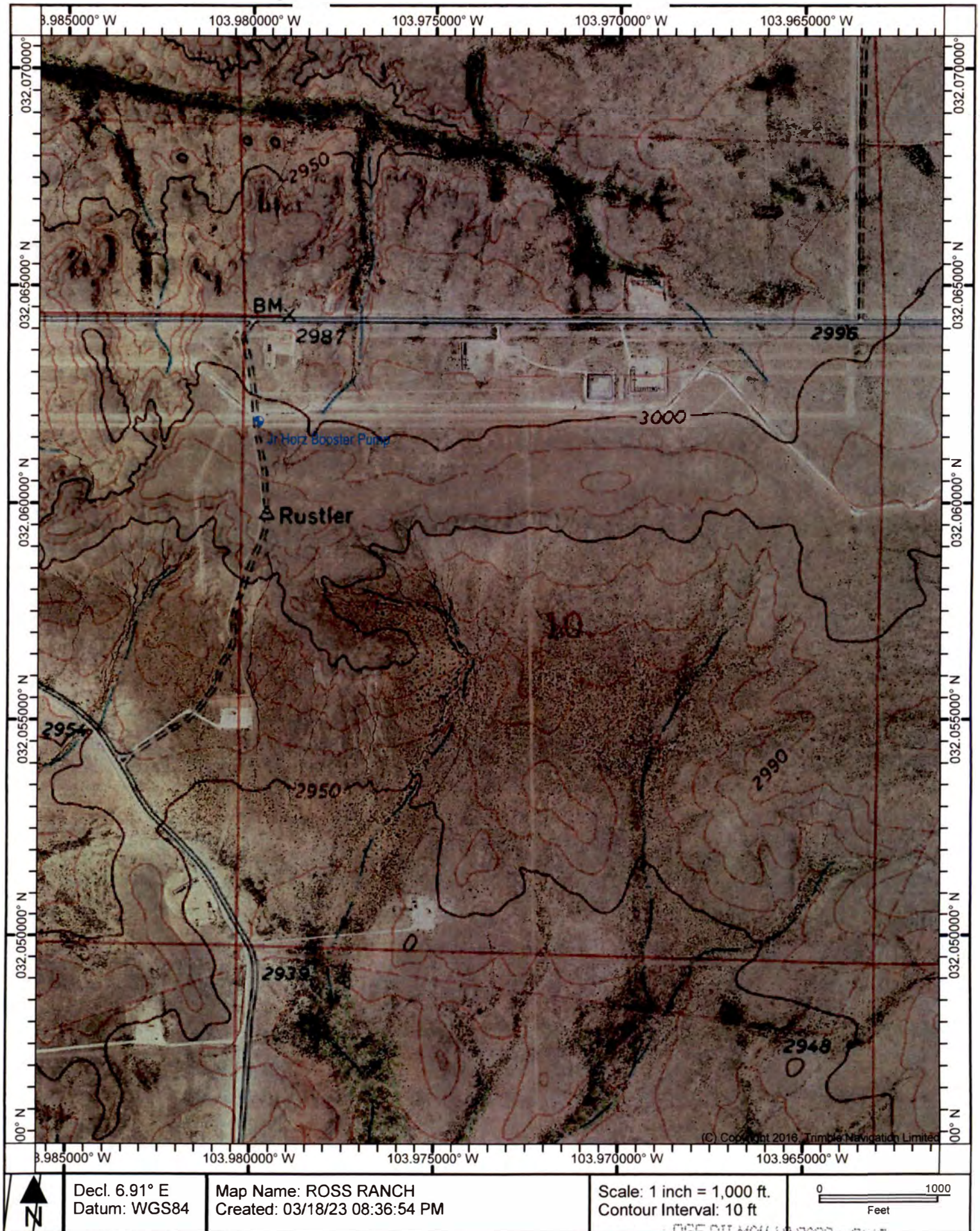
TABLE A - For plugging intervals that employ cement grout. Start with deepest interval.

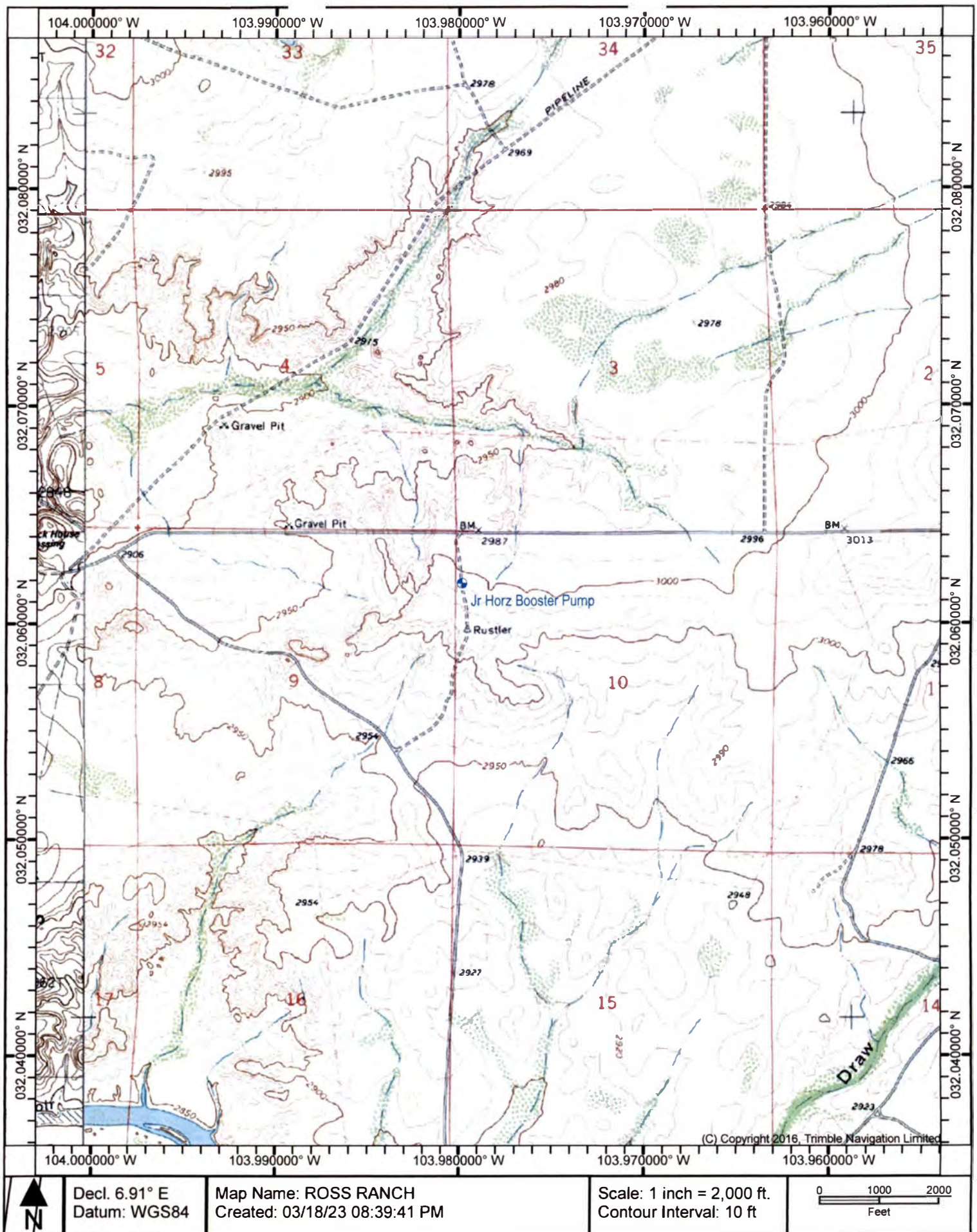
	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	Does Not Apply (DNA)		
Bottom of proposed interval of grout placement (ft bgl)	DNA		
Theoretical volume of grout required per interval (gallons)			
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement			
Mixed on-site or batch-mixed and delivered?			
Grout additive 1 requested			
Additive 1 percent by dry weight relative to cement			
Grout additive 2 requested			
Additive 2 percent by dry weight relative to cement			USE OCT MAY 18 2023 PM2:40

TABLE B - For plugging intervals that will employ approved non-cement based sealant(s). Start with deepest interval.

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	1-ft. Fill to one-ft below ground surface. Top 1-ft will be filled with soil backfill.		
Bottom of proposed sealant of grout placement (ft bgl)	Bottom 106-ft 0 to 20': pour from surface 20 to 105': tremie in bentonite chips.		
Theoretical volume of sealant required per interval (gallons)	22.5-cubic feet 168 gallons of water		
Proposed abandonment sealant (manufacturer and trade name)	Wyoming Bentonite		

DSE DTI MAY 18 2023 PM2:40







STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

1900 West Second St.
 Roswell, New Mexico 88201
 Phone: (575) 622-6521
 Fax: (575) 623- 8559

Applicant has identified a well, listed below, to be plugged.
 Jason Maley (WD-1833) will perform the plugging.

Permittee: Solaris Water Midstream
 NMOSE Permit Number: C-4745-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4745- POD1	6.25	106	Unknown	32° 03' 42.77"	103° 58' 47.39"

Specific Plugging Conditions of Approval for Well located in Eddy County.

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.
2. Ground Water encountered: The total theoretical volume of sealant required for abandonment of the 6.25 inch diameter (I.D.) casing is approximately 169 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 106 feet below ground surface (b.g.s.).
3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 16.0 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.
4. **Ground Water encountered:** Bentonite chips is the approved sealant. When bentonite chips are added above static water level, a minimum of 5-gallons of fresh water shall be added to the borehole per 50-lb of bentonite chips.
5. **Dry Hole:** (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Bentonite Chips. The bentonite shall be hydrated separately with its required increments of water.

6. Placement of the sealant within the wells shall be by tremie pipe extending to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column. The tremie shall be incrementally removed to retain the tremie bottom a limited distance above the top of the rising column of chips throughout the plugging process.
7. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.
8. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.
9. NMOSE witnessing of the plugging of the non-artesian well will not be required.
10. Any deviation from this plan must obtain an approved variance from this office prior to implementation.
11. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

The NMOSE Well Plugging Plan of Operations is hereby approved with the aforesaid conditions applied.

Witness my hand and seal this 5th day of June, 2023



Mike A. Hamman, P.E. State Engineer

By: _____

Samantha Davis
Water Resources Professional II



STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER
ROSWELL

Mike A. Hamman, P.E.
State Engineer

DISTRICT II
1900 West Second St.
Roswell, New Mexico 88201
Phone: (575) 622-6521
Fax: (575) 623-8559

June 5, 2023

Solaris Water Midstream
3305 Boyd Drive
Carlsbad, NM 88220

RE: Well Plugging Plan of Operations for well no. C-4745-POD1

Greetings:

Enclosed is your copy of the Well Plugging Plan of Operations for the above referenced well subject to the attached Conditions of Approval. The proposed method of operation is found to be acceptable and in accordance with the Rules and Regulations Governing Well Driller Licensing; Construction, Repair and Plugging of Wells 19.27.4 NMAC adopted June 30, 2017 by the State Engineer. subject to the attached Conditions of Approval.

Within 30 days after the well is plugged, the well driller is required to file a complete plugging record with the OSE and the permit holder.

Future applications need to be submitted in triplicate.

Well Plugging Plan of Operations form (WD-08) has been updated.

Current form can be found on the OSE website at the following site
<https://www.ose.state.nm.us/Statewide/wdForms.php>

Sincerely,

A handwritten signature in blue ink, appearing to read "Samantha Davis", written over a horizontal line.

Samantha Davis
Water Resources Professional II

Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, April 19, 2024 9:06 AM
To: Kelly Lowery
Cc: wade_dittrich@oxy.com; Tyson_Pierce@oxy.com; Beaux Jennings; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Extension Request: Maris Federal #001 (nAPP2402241037)

[**EXTERNAL EMAIL**]

RE: Incident #NAPP2402241037

Kelly,

Your request for a 90-day extension to **July 18th, 2024**, is approved. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, April 18, 2024 4:35 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request: Maris Federal #001 (nAPP2402241037)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, April 18, 2024 4:00 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request: Maris Federal #001 (nAPP2402241037)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 90-day extension for the Maris Federal #001 (nAPP2402241037). Excavation activities are currently being conducted at the Site and require more time due to the area having a higher-than-normal volume of traffic, which limits the amount of work that can be conducted each day and scheduling conflicts with the excavation crews. I have attached a few representative photos of the area. Please let us know if you have any questions.

Thank you,



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

Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, July 19, 2024 8:54 AM
To: Kelly Lowery
Cc: Dittrich, John W; Beaux Jennings; Pierce, Tyson (The Bergaila Company); Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Extension Request - Maris Federal #001 (nAPP2402241037)

[**EXTERNAL EMAIL**]

RE: Incident # **NAPP2402241037**

Kelly,

OCD Permitting has been revamped recently and automatically defaults to 90 days for a Remediation Closure Report Extension, which this appears to be. An extension to **October 17th, 2024** is approved. This will be the **final extension** for this release. Please include this e-mail correspondence in the remediation and/or closure report.

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



From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, July 17, 2024 8:49 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Extension Request - Maris Federal #001 (nAPP2402241037)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Wednesday, July 17, 2024 8:01 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Beaux Jennings <bjennings@ensolum.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>
Subject: [EXTERNAL] Extension Request - Maris Federal #001 (nAPP2402241037)

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

Good Morning,

On behalf of Oxy USA Inc, Ensolum, LLC would like to request a 30-day extension for the Maris Federal #001 (nAPP2402241037). Due to delays in scheduling with contractors and various team members, additional excavation activities at the Site have recently been completed to meet the Closure Criteria Limits specific to this location and pending analytical report, we will begin the drafting the Closure for this Site . We humbly ask for an extension so that we may wrap up the Site fully and complete the report so that it can be thoroughly reviewed before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



Kelly Lowery

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Tuesday, December 31, 2024 10:45 AM
To: Kelly Lowery; Hadlie Green
Cc: Samantha MacKenzie; Georgiana McSwane
Subject: Fw: The Oil Conservation Division (OCD) has rejected the application, Application ID: 405804

[**EXTERNAL EMAIL**]

Maris Federal #1-1/21/2024

Wade Dittrich

Environmental Advisor

New Mexico

575-390-2828

wade_dittrich@oxy.com

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, December 30, 2024 4:15 PM
To: Dittrich, John W <wade_dittrich@oxy.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has rejected the application, Application ID: 405804

WARNING - This message is from an EXTERNAL SENDER - be CAUTIOUS, particularly with links and attachments.

To whom it may concern (c/o Wade Dittrich for OXY USA INC),
The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2402241037,
for the following reasons:

- **Remediation closure denied for the following: 1) Pursuant to 19.15.29.12(D)1 NMAC, samples must be analyzed for all Table I constituents. When you over-excavated, samples were not tested for all Table 1 constituents.**
- **2) On pg. 6 of report it states, "After careful review of the previous sampling events, it was determined that additional sampling was needed." Photos show backfilling occurred in July. Pursuant to 19.15.29.12(E) NMAC, a description of all remedial activities must be provided. In resubmission, explain if you re-excavated and/or how sampled on 10/23/24.**
- **3) SW-3 was over-excavated to 36" yet there are no base samples collected at 36". Explain.**
- **4) SW-28, SW-29, SW-30, SW-65, SW-66, and SW-87 are missing from Figure 3. Update. Resubmit remediation closure report to the OCD by 4/1/25.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 405804.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Shelly Wells
Environmental Specialist-A
505-469-7520
Shelly.Wells@emnrd.nm.gov
New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

Kelly Lowery

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Tuesday, April 1, 2025 2:28 PM
To: Kelly Lowery
Cc: Dittrich, John W; Kent, Jessica; Beaux Jennings; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Extension Request - Maris Federal #001 (nAPP2402241037)

[**EXTERNAL EMAIL**]

Hi Kelly,

This is the third and final extension that will be granted for the following release: NAPP2402241037 MARIS FEDERAL #001. The new due date to submit your remediation closure report to the OCD is June 30, 2025. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kelly Lowery <klowery@ensolum.com>
Sent: Tuesday, April 1, 2025 12:46 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Dittrich, John W <Wade_Dittrich@oxy.com>; Kent, Jessica <Jessica_Kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] Extension Request - Maris Federal #001 (nAPP2402241037)

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

Good afternoon,

On behalf of Oxy USA Inc., Ensolum, LLC would like to request a 90-day extension for the Maris Federal #001 (nAPP2402241037). Excavation remediation activities are currently on-going and are planned to wrap up this coming Friday, April 4th 2025 pending field screening results and cooperative weather. During recent sampling events, not all sample locations were collected due to stockpiles that were staged overtop the areas and the locations being in direct pathways that the dump trucks were utilizing to haul off soils for proper disposal. These areas are now accessible and ready to be sampled and have been scheduled for this week for completion. We

humbly ask for this extension to be approved so we may wrap up the Site fully and complete the Remediation Closure Report for submittal to the NMOCD portal. Please let us know if you have any questions.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC



PECOS DISTRICT, BLM
SEED MIX FOR

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

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

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

April 4, 2006

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

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

No less than 9.75 pounds pls per acre shall be applied

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



APPENDIX C

Photographic Documentation

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037

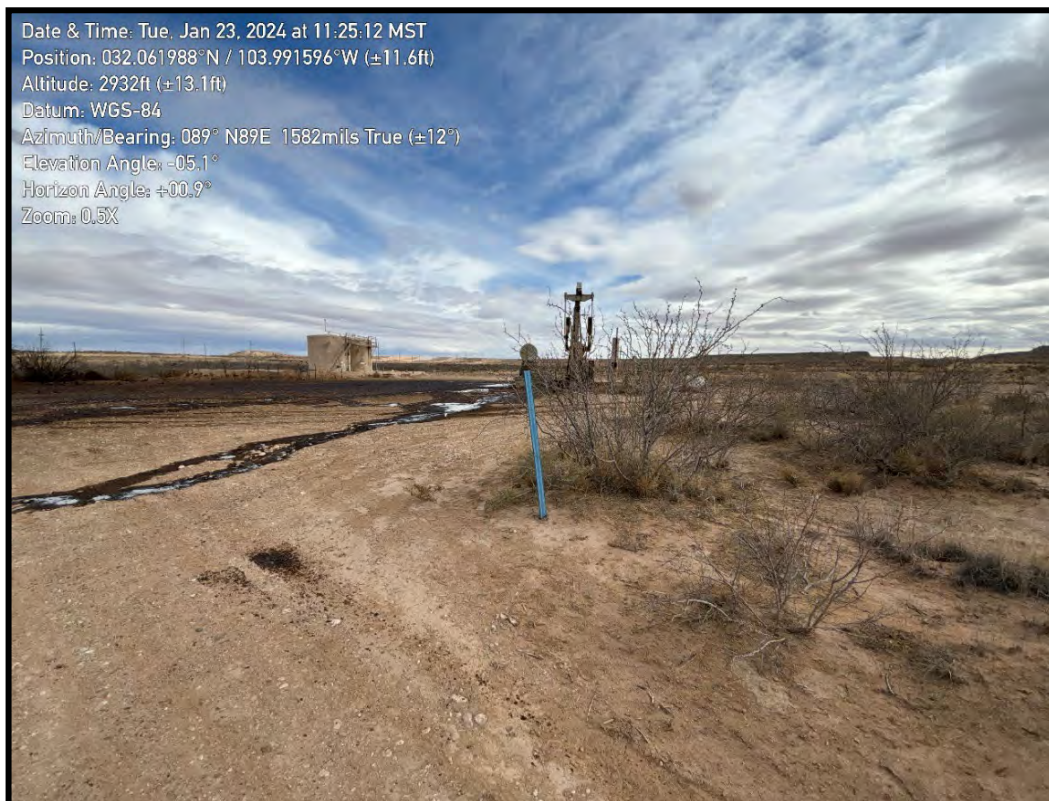


Date & Time: Tue, Jan 23, 2024 at 10:57:44 MST
Position: 032.062147° N / 103.991598° W (± 11.6 ft)
Altitude: 2932ft (± 9.8 ft)
Datum: WGS-84
Azimuth/Bearing: 118° S62E 2098mils True ($\pm 12^\circ$)
Elevation Angle: -05.5°
Horizon Angle: -00.0°
Zoom: 0.5X



View of release extent during initial site assessment, facing southeast (01/23/2024).

Date & Time: Tue, Jan 23, 2024 at 11:25:12 MST
Position: 032.061988° N / 103.991596° W (± 11.6 ft)
Altitude: 2932ft (± 13.1 ft)
Datum: WGS-84
Azimuth/Bearing: 089° N89E 1582mils True ($\pm 12^\circ$)
Elevation Angle: -05.1°
Horizon Angle: +00.9°
Zoom: 0.5X



View of release extent during initial site assessment, facing northeast (01/23/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of release extent during initial assessment activities, facing northwest (02/05/2024).

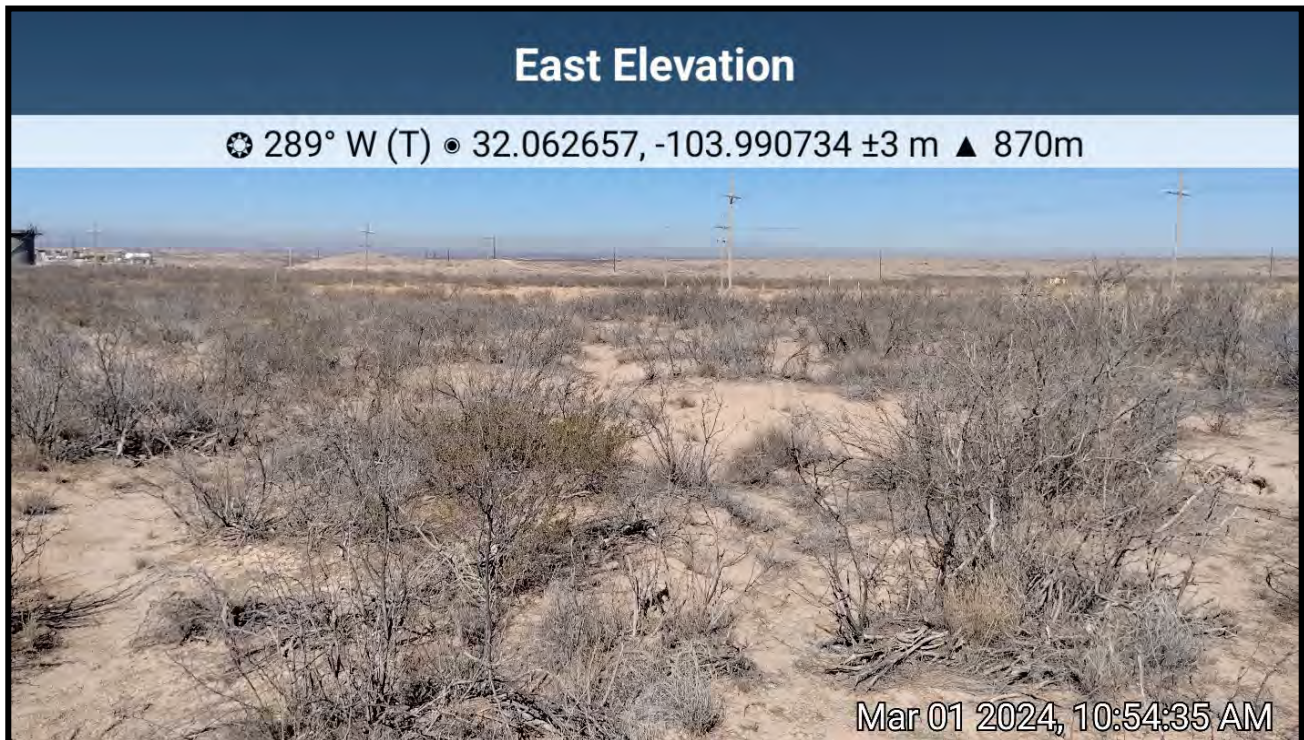


View of release extent during initial assessment activities, facing north (02/05/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037

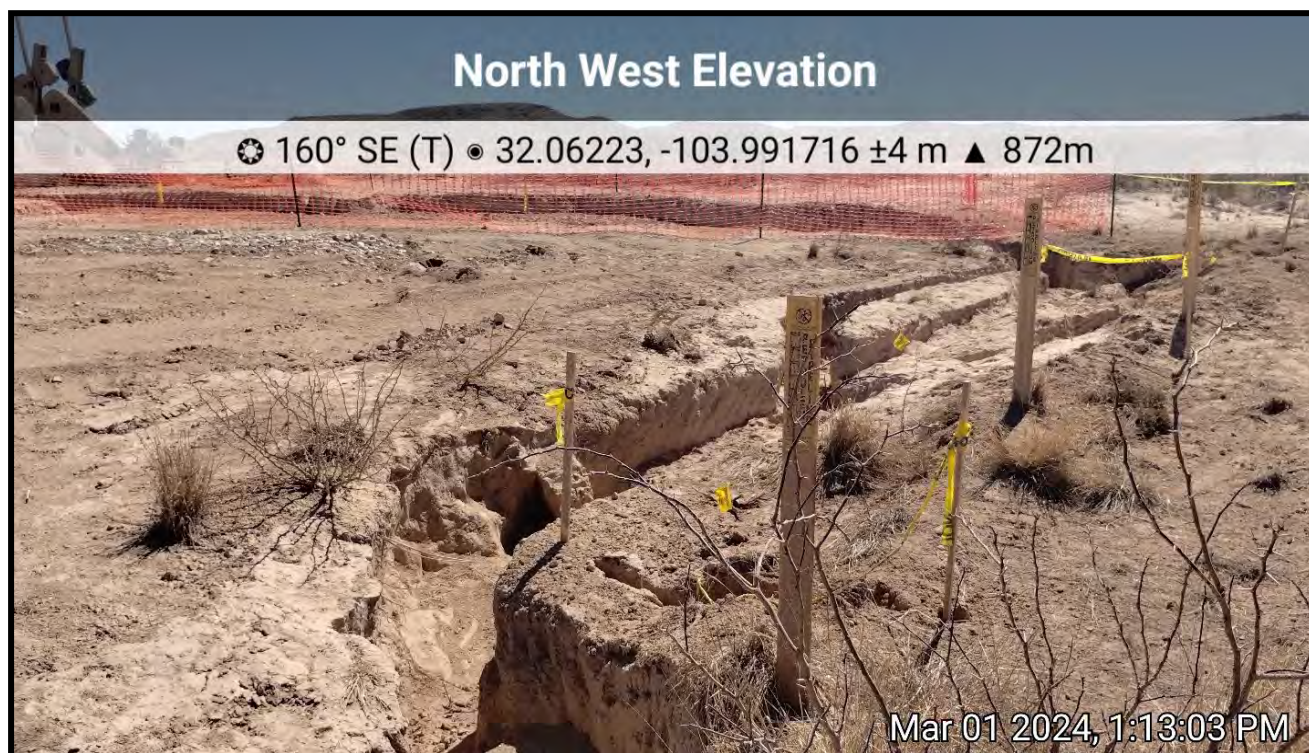


View of wetland assessment, facing southwest (03/01/2024).



View of wetlands assessment, facing west (03/01/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of Plains ROW hydro-excavation extent during remediation activities, facing southeast (03/01/2024).



View of excavation extent during remediation activities, facing west (03/01/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



Date & Time: Tue, Jul 02, 2024 at 11:08:56 MDT
Position: 032.062132°N / 103.991394°W (±15.6ft)
Altitude: 2939ft (±11.1ft)
Datum: WGS-84
Azimuth/Bearing: 263° S83W 4676mils True (±10°)
Elevation Angle: -15.2°
Horizon Angle: -00.5°
Zoom: 0.5X



View of excavation extent during remediation activities, facing southwest (07/02/2024).



7/19/24, 2:25 PM
+32.062309,-103.991558
138° SE
Malaga, NM 88263
Altitude: 894.2meter
Speed: 0.0km/h

View of backfilled & recontoured excavation extent, facing southeast (07/19/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of backfilled & recontoured excavation extent, facing southwest (07/19/2024).



View of backfilled & reseeded Plains ROW, facing northwest (07/19/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



Date & Time: Wed, Oct 23, 2024 at 10:36:36 MDT
Position: 032.062013°N / 103.991503°W (± 15.6 ft)
Altitude: 2920ft (± 19.6 ft)
Datum: WGS-84
Azimuth/Bearing: 046° N46E 0818mils True ($\pm 10^\circ$)
Elevation Angle: -23.3°
Horizon Angle: -00.9°
Zoom: 0.5X



View of additional sampling activities, facing northeast (10/23/2024).

Date & Time: Wed, Oct 23, 2024 at 10:36:41 MDT
Position: 032.062009°N / 103.991497°W (± 15.6 ft)
Altitude: 2921ft (± 29.7 ft)
Datum: WGS-84
Azimuth/Bearing: 016° N16E 0284mils True ($\pm 10^\circ$)
Elevation Angle: -11.5°
Horizon Angle: -02.2°
Zoom: 0.5X



View of additional sampling activities, facing northeast (10/23/2024).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of additional remediation activities, facing east (03/18/2025).

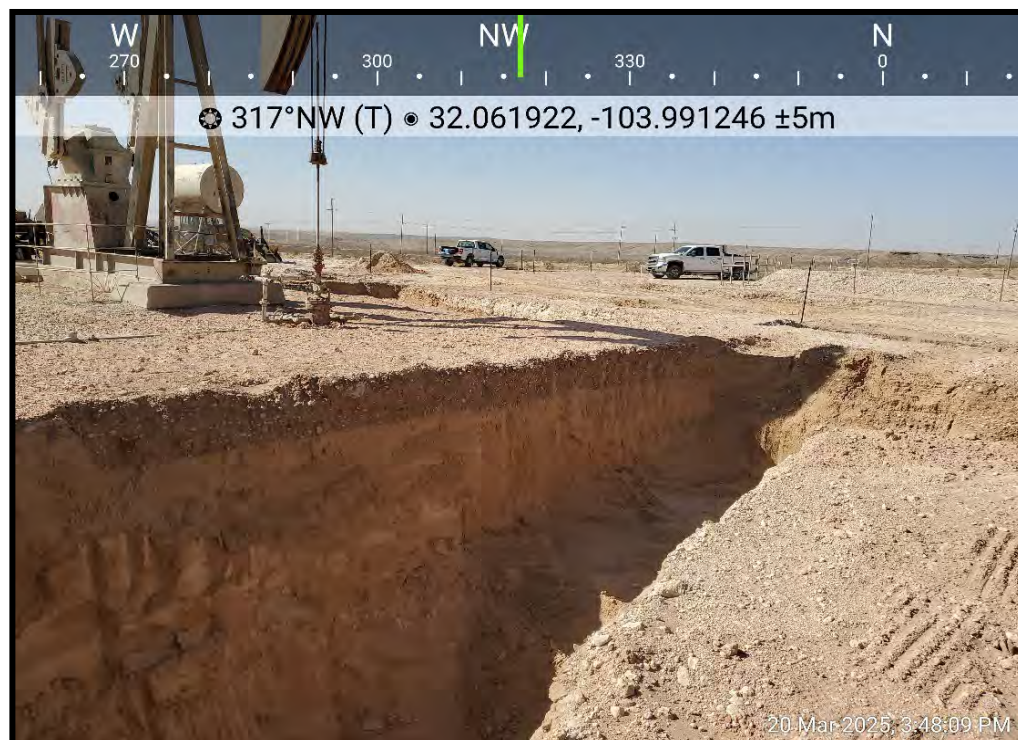


View of additional remediation activities, facing east (03/19/2025).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of additional remediation activities, facing northeast (03/19/2025).



View of additional remediation activities, facing northeast (03/20/2025).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of additional remediation activities, facing south (04/04/2025).



View of additional remediation activities, facing southeast (05/12/2025).

Project: Maris Federal #001
Entity: Oxy USA, Inc.
Project #: 03B1417142
Incident ID: nAPP2402241037



View of secondary backfill activities, facing southeast (05/22/2025).



View of secondary backfill activities, facing northwest (05/22/2025).



APPENDIX D

Table



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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
Composite Floor Soil Sample Analytical Results										
FS-1	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS-2	03/05/2024	18	<0.050	<0.300	<10.0	433	<10.0	433	433	592
FS-2	10/23/2024	19	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-2	03/20/2025	84	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS-3	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS-4	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS-5	03/05/2024	18	<0.050	<0.300	<10.0	527	178	527	705	1,600
FS-5	10/23/2024	19	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-5	04/04/2025	138	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,390
FS-5	05/12/2025	144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS-6	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
FS-6	10/23/2024	19	NS	NS	NS	NS	NS	NS	NS	112
FS-6	03/20/2025	84	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
FS-7	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS-8	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
FS-8	10/23/2024	19	NS	NS	NS	NS	NS	NS	NS	16.0
FS-8	03/19/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-9	03/05/2024	18	<0.050	<0.300	<10.0	21.5	<10.0	21.5	21.5	544
FS-10	03/05/2024	18	<0.050	<0.300	<10.0	77.6	13.2	77.6	90.8	1,600
FS-10	10/23/2024	19	NS	NS	NS	NS	NS	NS	NS	384
FS-10	03/19/2025	48	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS-11	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS-12	03/05/2024	18	<0.050	<0.300	<10.0	13.5	<10.0	13.5	13.5	1,720
FS-12	10/23/2024	19	NS	NS	NS	NS	NS	NS	NS	176
FS-12	03/19/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS-13	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
FS-13	10/23/2024	19	NS	NS	NS	NS	NS	NS	NS	32.0
FS-13	03/19/2025	30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS-14	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS-15	03/05/2024	18	<0.050	<0.300	<10.0	190	78.8	190	269	288
FS-15	10/23/2024	19	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-15	03/19/2025	24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS-16	03/05/2024	18	<0.050	<0.300	<10.0	28.1	<10.0	28.1	28.1	384
FS-17	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS-18	03/05/2024	18	<0.050	<0.300	<10.0	195	41.8	195	237	272
FS-18	10/23/2024	19	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-18	04/04/2025	24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-19	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS-20	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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-21	03/05/2024	18	<0.050	<0.300	<10.0	61.6	10.7	61.6	72.3	224
FS-22	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS-23	03/05/2024	18	<0.050	<0.300	<10.0	71.0	10.8	71.0	81.8	176
FS-24	03/05/2024	18	<0.050	<0.300	<10.0	59.7	<10.0	59.7	59.7	176
FS-25	03/05/2024	18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-26	03/05/2024	18	<0.050	<0.300	<10.0	53.8	11.7	53.8	65.5	208
FS-27	03/05/2024	18	<0.050	<0.300	<10.0	218	52.5	218	271	16.0
FS-27	07/02/2024	20	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-27	03/20/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS-28	03/05/2024	18	<0.050	0.929	79.0	8,379	2,130	8,449	10,579	480
FS-28	04/29/2024	24	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-28	03/20/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-29	03/05/2024	18	<0.050	0.907	17.5	1,240	318	1,258	1,576	256
FS-29	04/29/2024	24	NS	NS	<10.0	15.5	<10.0	15.5	15.5	NS
FS-29	03/20/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-30	03/05/2024	18	<0.050	20.8	896	8,590	1,820	9,486	11,306	608
FS-30	04/29/2024	24	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-30	03/20/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS-31	03/05/2024	18	<0.050	<0.300	<10.0	24.7	19.8	24.7	44.5	32.0
FS-31	03/20/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS-32	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-33	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-34	03/05/2024	3	<0.050	<0.300	<10.0	83.8	42.7	83.8	127	16.0
FS-34	07/02/2024	6	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-34	03/19/2025	36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-35	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-36	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-37	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-38	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-39	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-40	03/05/2024	3	<0.050	<0.300	<10.0	27.3	<10.0	27.3	27.3	32.0
FS-41	03/05/2024	3	<0.050	<0.300	<10.0	20.0	42.9	20.0	62.9	16.0
FS-42	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-43	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-44	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-45	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-46	03/05/2024	3	<0.050	<0.300	<10.0	62.2	23.4	62.2	85.6	64.0
FS-47	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-48	03/05/2024	3	<0.050	<0.300	<10.0	12.0	<10.0	12.0	12.0	16.0
FS-49	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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-50	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-51	03/05/2024	3	<0.050	<0.300	<10.0	149	28.1	149	177	48.0
FS-51	07/02/2024	6	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-51	04/04/2025	6	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	160
FS-52	03/05/2024	3	<0.050	<0.300	<10.0	47.2	10.9	47.2	58.1	16.0
FS-53	03/05/2024	3	<0.050	<0.300	<10.0	34.1	<10.0	34.1	34.1	16.0
FS-54	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-55	03/05/2024	3	<0.050	<0.300	<10.0	66.0	14.7	66.0	80.7	32.0
FS-56	03/05/2024	3	<0.050	<0.300	<10.0	54.5	13.2	54.5	67.7	32.0
FS-57	03/05/2024	3	<0.050	<0.300	<10.0	15.6	<10.0	15.6	15.6	576
FS-58	03/05/2024	3	<0.050	<0.300	<10.0	653	267	653	920	80.0
FS-58	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-58	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS-59	03/05/2024	3	<0.050	<0.300	<10.0	910	338	910	1,248	80.0
FS-59	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-59	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-60	03/05/2024	3	<0.050	<0.300	<10.0	300	83.5	300	384	80.0
FS-60	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-60	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
FS-61	03/05/2024	3	<0.050	<0.300	<10.0	836	208	836	1,044	240
FS-61	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-61	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS-62	03/05/2024	3	<0.050	<0.300	<10.0	472	141	472	613	224
FS-62	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-62	03/19/2025	12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS-63	03/05/2024	3	<0.050	<0.300	<10.0	118	23.4	118	144	32.0
FS-63	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-63	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS-64	03/05/2024	3	<0.050	<0.300	<10.0	719	179	719	898	160
FS-64	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-64	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS-65	03/05/2024	3	<0.050	<0.300	>10.0	2,070	630	2,070	2,700	64.0
FS-65	04/29/2024	24	NS	NS	<10.0	15.4	<10.0	15.4	15.4	NS
FS-65	04/04/2025	24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-66	03/05/2024	3	<0.050	<0.300	<10.0	1,270	318	1,270	1,588	208
FS-66	04/29/2024	24	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-66	04/04/2025	24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS-67	03/05/2024	3	<0.050	<0.300	<10.0	703	179	703	882	160
FS-67	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-67	03/18/2025	4	<0.050	<0.300	<10.0	24.0	<10.0	24.0	24.0	256



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 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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-68	03/05/2024	3	<0.050	<0.300	<10.0	650	165	650	815	272
FS-68	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-68	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-69	03/05/2024	3	<0.050	<0.300	<10.0	135	20.0	135	155	128
FS-69	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-69	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS-70	03/05/2024	3	<0.050	<0.300	<10.0	118	19.0	118	137	80.0
FS-70	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-70	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-71	03/05/2024	3	<0.050	<0.300	<10.0	465	86.7	465	552	208
FS-71	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-71	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS-72	03/05/2024	3	<0.050	<0.300	<10.0	971	163	971	1,134	224
FS-72	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-72	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS-73	03/05/2024	3	<0.050	<0.300	<10.0	494	87.0	494	581	192
FS-73	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-73	03/19/2025	12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS-74	03/05/2024	3	<0.050	<0.300	<10.0	144	<10.0	144	144	80.0
FS-74	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-74	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS-75	03/05/2024	3	<0.050	<0.300	<10.0	320	34.7	320	355	208
FS-75	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-75	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS-76	03/05/2024	3	<0.050	<0.300	<10.0	382	53.0	382	435	432
FS-76	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-76	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS-77	03/05/2024	3	<0.050	<0.300	<10.0	201	22.6	201	224	288
FS-77	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-77	03/18/2025	12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS-78	03/05/2024	3	<0.050	<0.300	<10.0	3,940	668	3,940	4,608	784
FS-78	04/29/2024	3	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-78	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-78	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS-79	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912
FS-79	10/23/2024	4	NS	NS	NS	NS	NS	NS	NS	208
FS-79	03/18/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
FS-80	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-81	03/05/2024	3	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	32.0
FS-82	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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-83	03/05/2024	3	<0.050	<0.300	<10.0	10.1	<10.0	10.1	10.1	64.0
FS-84	03/05/2024	3	<0.050	<0.300	<10.0	388	42.9	388	431	160
FS-84	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-84	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS-85	03/05/2024	3	<0.050	<0.300	<10.0	516	108	516	624	128
FS-85	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-85	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS-86	03/05/2024	3	<0.050	<0.300	<10.0	149	59.1	149	208	80.0
FS-86	10/23/2024	4	NS	NS	<10.0	<10.0	<10.0	<10.0	<10.0	NS
FS-86	03/19/2025	4	<0.050	<0.300	<10.0	<10.0	22.7	<10.0	22.7	160
FS-87	03/05/2024	3	<0.050	<0.300	<10.0	1,350	770	1,350	2,120	32.0
FS-87	04/29/2024	24	NS	NS	<10.0	24.7	<10.0	24.7	24.7	NS
FS-87	04/04/2025	120	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS-88	03/05/2024	3	<0.050	<0.300	<10.0	23.2	<10.0	23.2	23.2	32.0
FS-89	03/05/2024	3	<0.050	<0.300	<10.0	87.7	<10.0	87.7	87.7	48.0
FS-90	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-91	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-92	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-93	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-94	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-95	03/05/2024	3	<0.050	<0.300	<10.0	13.2	<10.0	13.2	13.2	32.0
FS-96	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-97	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-98	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-99	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-100	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-101	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS-102	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-103	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS-104	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-105	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS-106	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS-107	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS-108	03/05/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Composite Sidewall Soil Sample Analytical Results										
SW-1	03/05/2024	0-18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
SW-1	07/02/2024	0-18	NS	NS	NS	NS	NS	NS	NS	32.0
SW-1	03/19/2025	0 - 36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-2	03/05/2024	0 - 18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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
SW-3	03/05/2024	0-18	<0.050	<0.300	<10.0	101	24.0	101	425	512
SW-3	05/10/2024	0-36	NS	NS	<10.0	11.7	<10.0	11.7	11.7	NS
SW-3	03/20/2025	0 - 36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW-4	03/05/2024	0 - 18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW-5	03/05/2024	0-18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
SW-5	07/02/2024	0-18	NS	NS	NS	NS	NS	NS	NS	32.0
SW-5	04/04/2025	0 - 18	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-06	05/12/2025	0 - 36	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-07	05/12/2025	0 - 12	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW-08	05/12/2025	0 - 24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW-09	05/12/2025	0 - 30	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-10	05/12/2025	0 - 84	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW-11	05/12/2025	0 - 84	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW-12	05/12/2025	0 - 84	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW-13	05/12/2025	0 - 48	<0.050	<0.300	<10.0	10.2	<10.0	10.2	10.2	32.0
SW-14	05/12/2025	0 - 120	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SW-15	05/12/2025	0 - 120	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-16	05/12/2025	0 - 120	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW-17	05/12/2025	0 - 144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-18	05/12/2025	0 - 144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-19	05/12/2025	0 - 144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW-20	05/12/2025	0 - 144	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW-28*	04/29/2024	0-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW-29*	04/29/2024	0-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW-30*	04/29/2024	0-24	<0.050	<0.300	<10.0	35.2	<10.0	35.2	35.2	256
SW-65*	04/29/2024	0-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
SW-66*	04/29/2024	0-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW-87*	04/29/2024	0-24	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 MARIS FEDERAL #001
 OXY USA, INC
 EDDY COUNTY, NEW MEXICO
 ENSOLUM PROJECT NO. 03B1417142

Sample I.D.	Sample Date	Sample Depth (inches 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
Delineation Soil Sample Analytical Results										
DS-1	03/05/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-2	03/05/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
DS-3	03/05/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
DS-4	03/05/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS-5	03/05/2024	0 - 3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
DS-6	03/05/2024	0 - 3	<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

Grey-text indicates soil sample removed during excavation activities

*: Sidewall sample location removed completely during
excavation activities.



TABLE 2
BACKFILL SOIL SAMPLE ANALYTICAL RESULTS
ONSUAREZ PIT
OXY USA, INC.
EDDY COUNTY, NEW MEXICO

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Confirmation Background Soil Sample										
OnSuarez Pit	09/30/2024	0.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

March 08, 2024

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

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 1 18" (H241104-01)

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	03/07/2024	ND	2.12	106	2.00	3.34		
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64		
Total BTX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 94.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 2 18" (H241104-02)

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	03/07/2024	ND	2.12	106	2.00	3.34	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64	
Total BTEX	<0.300	0.300	03/07/2024	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	592	16.0	03/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	433	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 3 18" (H241104-03)

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	03/07/2024	ND	2.12	106	2.00	3.34	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64	
Total BTEX	<0.300	0.300	03/07/2024	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	304	16.0	03/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 4 18" (H241104-04)

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	03/07/2024	ND	2.12	106	2.00	3.34	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64	
Total BTEX	<0.300	0.300	03/07/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	03/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 5 18" (H241104-05)

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	03/07/2024	ND	2.12	106	2.00	3.34	
Toluene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	3.02	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.06	103	2.00	2.87	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.23	104	6.00	2.64	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	1600	16.0	03/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	527	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	178	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 6 18" (H241104-06)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTX	<0.300	0.300	03/07/2024	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	960	16.0	03/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 7 18" (H241104-07)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	400	16.0	03/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 8 18" (H241104-08)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	640	16.0	03/07/2024	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 9 18" (H241104-09)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	544	16.0	03/07/2024	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	21.5	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 97.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 10 18" (H241104-10)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	1600	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	77.6	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	13.2	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 11 18" (H241104-11)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	256	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	200	100	200	5.90	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	101	200	3.77	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 12 18" (H241104-12)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	1720	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	13.5	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 96.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 13 18" (H241104-13)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	992	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 14 18" (H241104-14)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	352	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 15 18" (H241104-15)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTX	<0.300	0.300	03/07/2024	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	288	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	190	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	78.8	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 93.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 16 18" (H241104-16)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	384	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	28.1	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 17 18" (H241104-17)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	176	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 94.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 18 18" (H241104-18)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	272	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	195	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	41.8	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 69.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 19 18" (H241104-19)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	336	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 20 18" (H241104-20)

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	03/07/2024	ND	1.91	95.5	2.00	2.18		
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	160	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 21 18" (H241104-21)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 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	224	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	61.6	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	10.7	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 22 18" (H241104-22)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	224	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 23 18" (H241104-23)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	176	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	71.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	10.8	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 94.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 24 18" (H241104-24)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68	
Total BTEX	<0.300	0.300	03/07/2024	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	176	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	59.7	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 25 18" (H241104-25)

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	03/07/2024	ND	1.91	95.5	2.00	2.18	GC-NC	
Toluene*	<0.050	0.050	03/07/2024	ND	1.99	99.7	2.00	1.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	1.97	98.7	2.00	1.57		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.02	100	6.00	1.68		
Total BTEX	<0.300	0.300	03/07/2024	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	192	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 26 18" (H241104-26)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	208	16.0	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	53.8	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	11.7	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 27 18" (H241104-27)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	03/07/2024	ND	448	112	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	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	218	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	52.5	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 28 18" (H241104-28)

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	03/08/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/08/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	0.131	0.050	03/08/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	0.798	0.150	03/08/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	0.929	0.300	03/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	480	16.0	03/07/2024	ND	448	112	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						S-04
GRO C6-C10*	79.0	10.0	03/06/2024	ND	187	93.4	200	2.74		
DRO >C10-C28*	8370	10.0	03/06/2024	ND	199	99.6	200	0.818		
EXT DRO >C28-C36	2130	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 202 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 29 18" (H241104-29)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	0.151	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	0.756	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	0.907	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	256	16.0	03/07/2024	ND	448	112	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*	17.5	10.0	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	1240	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	318	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 30 18" (H241104-30)

BTEx 8021B		mg/kg	Analyzed By: JH					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/08/2024	ND	2.16	108	2.00	2.84	
Toluene*	1.66	0.050	03/08/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	4.11	0.050	03/08/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	15.0	0.150	03/08/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	20.8	0.300	03/08/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 390 % 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	608	16.0	03/07/2024	ND	400	100	400	7.69	

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*	896	10.0	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	8590	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	1820	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 177 % 48.2-134

Surrogate: 1-Chlorooctadecane 170 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 31 18" (H241104-31)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	03/07/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	187	93.4	200	2.74	
DRO >C10-C28*	24.7	10.0	03/06/2024	ND	199	99.6	200	0.818	
EXT DRO >C28-C36	19.8	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 32 0.25' (H241104-32)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 33 0.25' (H241104-33)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	32.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 34 0.25' (H241104-34)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	03/07/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	83.8	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	42.7	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 35 0.25' (H241104-35)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 36 0.25' (H241104-36)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.2 % 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	03/07/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 95.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 37 0.25' (H241104-37)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 38 0.25' (H241104-38)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.1 % 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	16.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 39 0.25' (H241104-39)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.9 % 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	32.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 40 0.25' (H241104-40)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.8 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	27.3	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 41 0.25' (H241104-41)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.8 % 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	03/07/2024	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	20.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	42.9	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 42 0.25' (H241104-42)

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	03/07/2024	ND	2.16	108	2.00	2.84	
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80	
Total BTEX	<0.300	0.300	03/07/2024	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	32.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 43 0.25' (H241104-43)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 44 0.25' (H241104-44)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 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	<16.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 92.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 45 0.25' (H241104-45)

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	03/07/2024	ND	2.16	108	2.00	2.84		
Toluene*	<0.050	0.050	03/07/2024	ND	2.12	106	2.00	2.81		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.05	103	2.00	2.54		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	5.97	99.5	6.00	2.80		
Total BTEX	<0.300	0.300	03/07/2024	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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 46 0.25' (H241104-46)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEX	<0.300	0.300	03/07/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	62.2	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	23.4	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 47 0.25' (H241104-47)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 48 0.25' (H241104-48)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	12.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 49 0.25' (H241104-49)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEX	<0.300	0.300	03/07/2024	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	03/07/2024	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 50 0.25' (H241104-50)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 51 0.25' (H241104-51)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEx	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	48.0	16.0	03/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	190	94.9	200	6.80	
DRO >C10-C28*	149	10.0	03/06/2024	ND	183	91.4	200	5.48	
EXT DRO >C28-C36	28.1	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 52 0.25' (H241104-52)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	47.2	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	10.9	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 53 0.25' (H241104-53)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	34.1	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 54 0.25' (H241104-54)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 55 0.25' (H241104-55)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	66.0	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	14.7	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 56 0.25' (H241104-56)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	54.5	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	13.2	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 57 0.25' (H241104-57)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	576	16.0	03/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	15.6	10.0	03/07/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 68.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 58 0.25' (H241104-58)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	80.0	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	653	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	267	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 59 0.25' (H241104-59)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	80.0	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	910	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	338	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 72.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.6 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 60 0.25' (H241104-60)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	300	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	83.5	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 61 0.25' (H241104-61)

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	03/07/2024	ND	2.21	110	2.00	2.87		
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65		
Total BTEx	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	240	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	836	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	208	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 62 0.25' (H241104-62)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	224	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	472	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	141	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 75.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 63 0.25' (H241104-63)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	118	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	23.4	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 76.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 64 0.25' (H241104-64)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	160	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	719	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	179	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 60.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 65 0.25' (H241104-65)

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	03/07/2024	ND	2.21	110	2.00	2.87	
Toluene*	<0.050	0.050	03/07/2024	ND	2.18	109	2.00	2.20	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.11	106	2.00	2.00	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.35	106	6.00	1.65	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	64.0	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	2070	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	630	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 75.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 66 0.25' (H241104-66)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	208	16.0	03/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	1270	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	318	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 76.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 67 0.25' (H241104-67)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	160	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	703	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	179	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 75.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 68 0.25' (H241104-68)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEX	<0.300	0.300	03/07/2024	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	272	16.0	03/07/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	650	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	165	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 71.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 69 0.25' (H241104-69)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	128	16.0	03/07/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	135	10.0	03/06/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	20.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 70 0.25' (H241104-70)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEX	<0.300	0.300	03/07/2024	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	80.0	16.0	03/07/2024	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	03/07/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	118	10.0	03/07/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	19.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 71 0.25' (H241104-71)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	208	16.0	03/07/2024	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	03/07/2024	ND	184	92.1	200	4.41	
DRO >C10-C28*	465	10.0	03/07/2024	ND	201	100	200	2.23	
EXT DRO >C28-C36	86.7	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 72 0.25' (H241104-72)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEX	<0.300	0.300	03/07/2024	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	224	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	971	10.0	03/06/2024	ND	175	87.6	200	12.7	QM-07
EXT DRO >C28-C36	163	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 73 0.25' (H241104-73)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEX	<0.300	0.300	03/07/2024	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	192	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	494	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	87.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 75.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 74 0.25' (H241104-74)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	80.0	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	144	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 75 0.25' (H241104-75)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEx	<0.300	0.300	03/07/2024	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	208	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	320	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	34.7	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 76 0.25' (H241104-76)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	432	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	382	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	53.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 77 0.25' (H241104-77)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEx	<0.300	0.300	03/07/2024	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	288	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	201	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	22.6	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 78 0.25' (H241104-78)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	784	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	3940	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	668	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 96.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 139 % 49.1-148

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 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 79 0.25' (H241104-79)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEX	<0.300	0.300	03/07/2024	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	912	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 80 0.25' (H241104-80)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEX	<0.300	0.300	03/07/2024	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	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 81 0.25' (H241104-81)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	32.0	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	12.4	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 82 0.25' (H241104-82)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 88.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 83 0.25' (H241104-83)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	10.1	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 84 0.25' (H241104-84)

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	03/07/2024	ND	1.89	94.5	2.00	1.20	
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86	
Total BTEx	<0.300	0.300	03/07/2024	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	160	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	388	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	42.9	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 88.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.0 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 85 0.25' (H241104-85)

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	03/07/2024	ND	1.89	94.5	2.00	1.20		
Toluene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	2.43		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.00	100	2.00	3.07		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.10	102	6.00	3.86		
Total BTEx	<0.300	0.300	03/07/2024	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	128	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	516	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	108	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 03/05/2024
Reported: 03/08/2024
Project Name: MARIS FEDERAL #1
Project Number: 03B1417142
Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: FS - 86 0.25' (H241104-86)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEx	<0.300	0.300	03/07/2024	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	80.0	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	149	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	59.1	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 87 0.25' (H241104-87)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTX	<0.300	0.300	03/07/2024	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	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	1350	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	770	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 88 0.25' (H241104-88)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	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	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	23.2	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 89 0.25' (H241104-89)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEX	<0.300	0.300	03/07/2024	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	48.0	16.0	03/07/2024	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	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	87.7	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 81.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 90 0.25' (H241104-90)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	03/07/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 79.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.9 % 49.1-148

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*=Accredited Analyte

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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.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Celey D. Keene, Lab Director/Quality Manager



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



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Enselco LLC</u>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Beck Teague</u>		Company:			
Address: <u>601 Mendocino St</u>		Attn:			
City: <u>Minden</u>		Address:			
Phone #: <u>210-219-8858</u>		City:			
Fax #: <u>714-7142</u>		State:			
Project #: <u>0381417142</u>		Zip:			
Project Name: <u>Mc's Federal #1</u>		Phone #:			
Project Location: <u>Eddy Co NM</u>		Fax #:			
Sampler Name: <u>Wood Duke Stone D. III</u>					

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX 80216	Chlorides 4500	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE COOL	OTHER :					
<u>H241104</u>																	
31	1-5-	31	1														
32	1-5-	32	1														
33	1-5-	33	1														
34	1-5-	34	1														
35	1-5-	35	1														
36	1-5-	36	1														
37	1-5-	37	1														
38	1-5-	38	1														
39	1-5-	39	1														
40	1-5-	40	1														

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Relinquished By: <u>[Signature]</u>	Date: <u>3-5-24</u>	Received By: <u>[Signature]</u>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #:
Time: <u>16:07</u>	Date: <u>16-07-24</u>	Received By: <u>[Signature]</u>	All Results are emailed. Please provide Email address:
Time:	Date:	Received By:	REMARKS:
Delivered By: (Circle One)	Observed Temp. °C: <u>3.94</u>	Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <u>Standard</u> <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	Checked BY: (Initials) <u>[Signature]</u>	Bacteria (only) Sample Condition: <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Cool <input type="checkbox"/> Yes <input type="checkbox"/> No
FORM 000-R-3-24 0711123			Observed Temp. °C:

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <i>Enseron LLC</i>		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Beck Jennings</i>		P.O. #:			
Address: <i>601 Mercersfeld #400</i>		Company:			
City: <i>Midland</i>		Attn:			
State: <i>TX</i> Zip: <i>79701</i>		Address:			
Phone #: <i>210-219-8858</i> Fax #:		City:			
Project #: <i>0381417142</i> Project Owner:		State:			
Project Name: <i>McCluskey Federal #1</i>		Zip:			
Project Location: <i>Eddy Co NM</i>		Phone #:			
Sampler Name: <i>Mark Baker Stone D. 11/-</i>		Fax #:			
FOR LAB USE ONLY		PRESERV.		SAMPLING	
Lab I.D.	Sample I.D.	MATRIX			
<i>H241104</i>	<i>Depth</i>	(G)RAB OR (C)OMP.			
		# CONTAINERS			
		GROUNDWATER			
		WASTEWATER			
		SOIL			
		OIL			
		SLUDGE			
		OTHER :			
		ACID/BASE:			
		ICE/COOL			
		OTHER :			
		DATE		TIME	
<i>41</i>	<i>F-S-41</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1338</i>
<i>42</i>	<i>F-S-42</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1350</i>
<i>43</i>	<i>F-S-43</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1344</i>
<i>44</i>	<i>F-S-44</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1341</i>
<i>45</i>	<i>F-S-45</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1312</i>
<i>46</i>	<i>F-S-46</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1406</i>
<i>47</i>	<i>F-S-47</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1354</i>
<i>48</i>	<i>F-S-48</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1349</i>
<i>49</i>	<i>F-S-49</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1345</i>
<i>50</i>	<i>F-S-50</i>	<i>C</i>	<i>1</i>	<i>3-5-24</i>	<i>1340</i>
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Relinquished By: <i>[Signature]</i>		Date: <i>3-5-24</i>		Time: <i>16:07</i>	
Relinquished By:		Received By:		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
Date: <i>3-5-24</i>		Date: <i>3-5-24</i>		All Results are emailed. Please provide Email address:	
Time:		Time:		REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C <i>3.9</i>		Turnaround Time:	
Sampler - UPS - Bus - Other:		Corrected Temp. °C		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	
Form 0000 K-3-4 07/11/23		Sample Condition		Bacteria (only) <input checked="" type="checkbox"/>	
		Cool Intact <input checked="" type="checkbox"/>		Cool Intact <input checked="" type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
		Checked By: (Initials) <i>DA</i>		Sample Condition	
				Observed Temp. °C	
				Corrected Temp. °C	

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Page 98 of 101



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselon LLC Project Manager: Brock Jennings Address: 601 Mercantile #400 City: Meriden State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 03B1417142 Project Owner: Project Name: Meris Federal #1 Project Location: Eddy Co NM Sampler Name: Mark Duke Stone D. 11-				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. H241104		Sample I.D. Depth		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING		DATE TIME		TPH 8015 BTEX 80216 Chlorides 4500	
61	1-5-61	0.25'	C	1	X			3-5-24	1377	X	X
62	1-5-62		C	1	X			3-5-24	1376	X	X
63	1-5-63		C	1	X			3-5-24	1204	X	X
64	1-5-64		C	1	X			3-5-24	1286	X	X
65	1-5-65		C	1	X			3-5-24	1148	X	X
66	1-5-66		C	1	X			3-5-24	1346	X	X
67	1-5-67		C	1	X			3-5-24	1376	X	X
68	1-5-68		C	1	X			3-5-24	1370	X	X
69	1-5-69		C	1	X			3-5-24	1375	X	X
70	1-5-70		C	1	X			3-5-24	1146	X	X

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Relinquished By: [Signature] Date: 3-5-24 Time: 16:37		Received By: [Signature] Date: Time:	
Relinquished By: [Signature]		Received By: [Signature]	

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: ☒ Other

Observed Temp. °C: 39.0 **Corrected Temp. °C:**
Sample Condition:
☐ Cool ☐ Intact
☐ Yes ☐ No ☐ Yes ☐ No

Turnaround Time: **Standard** ☒ Rush ☐
 Thermometer ID #140 **Bacteria (only) Sample Condition:**
 Correction Factor 0°C ☐ Cool ☐ Intact ☐ Observed Temp. °C
☐ Yes ☐ No ☐ Yes ☐ No ☐ Corrected Temp. °C

REMARKS:
 Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:
 All Results are emailed. Please provide Email address:



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Page 100 of 101



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselco LLC Project Manager: Brock Jennings Address: 601 Monicoff Rd #400 City: Moriaville State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 0381417142 Project Owner: Project Name: Morris Federal #1 Project Location: Eddy Co NM Sampler Name: Mark Baker Stone D.H.		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H441104 Sample I.D. Dep H 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. *Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV ACID/BASE: ICE COOL OTHER:	
Relinquished By: [Signature] Date: 3-5-24 Time: 16:27 Relinquished By: [Signature]		Received By: [Signature] Date: 3-5-24 Time: 16:27 Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 3.92 Corrected Temp. °C:		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor 0°C:	
REMARKS:		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C:			



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

March 08, 2024

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

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/05/24 16:27.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 91 0.25' (H241105-01)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	183	91.4	200	13.6	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	175	87.6	200	12.7	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 92 0.25' (H241105-02)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 93 0.25' (H241105-03)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 94 0.25' (H241105-04)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 95 0.25' (H241105-05)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	13.2	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 96 0.25' (H241105-06)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 97 0.25' (H241105-07)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 98 0.25' (H241105-08)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 99 0.25' (H241105-09)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.8 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 100 0.25' (H241105-10)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 81.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 101 0.25' (H241105-11)

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	03/07/2024	ND	2.12	106	2.00	2.85		
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02		
Total BTEx	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 102 0.25' (H241105-12)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEX	<0.300	0.300	03/07/2024	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	32.0	16.0	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 103 0.25' (H241105-13)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 104 0.25' (H241105-14)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	03/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 105 0.25' (H241105-15)

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	03/07/2024	ND	2.12	106	2.00	2.85	
Toluene*	<0.050	0.050	03/07/2024	ND	2.22	111	2.00	6.49	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.30	115	2.00	6.91	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.81	114	6.00	7.02	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 106 0.25' (H241105-16)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEx	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 107 0.25' (H241105-17)

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	03/07/2024	ND	2.36	118	2.00	1.72		
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35		
Total BTEx	<0.300	0.300	03/07/2024	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	96.0	16.0	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 79.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: FS - 108 0.25' (H241105-18)

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	03/07/2024	ND	2.36	118	2.00	1.72		
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35		
Total BTEx	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 76.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 1 0-1.5' (H241105-19)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	1060	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 2 0-1.5' (H241105-20)

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	03/07/2024	ND	2.36	118	2.00	1.72		
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35		
Total BTEX	<0.300	0.300	03/07/2024	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	304	16.0	03/08/2024	ND	416	104	400	7.41		

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	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 78.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 3 0-1.5' (H241105-21)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	512	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	200	99.8	200	3.14	
DRO >C10-C28*	101	10.0	03/07/2024	ND	196	98.0	200	2.52	
EXT DRO >C28-C36	24.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 03/05/2024
Reported: 03/08/2024
Project Name: MARIS FEDERAL #1
Project Number: 03B1417142
Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SW - 4 0-1.5' (H241105-22)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	208	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: SW - 5 0-1.5' (H241105-23)

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	03/07/2024	ND	2.36	118	2.00	1.72		
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 90.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 1 0 - .25' (H241105-24)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	32.0	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 2 0 - .25' (H241105-25)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	32.0	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 93.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 3 0 - .25' (H241105-26)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 93.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 4 0 - .25' (H241105-27)

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	03/07/2024	ND	2.36	118	2.00	1.72		
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69		
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37		
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35		
Total BTEX	<0.300	0.300	03/07/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 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	03/08/2024	ND	416	104	400	7.41		

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 95.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 5 0 - .25' (H241105-28)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	208	16.0	03/08/2024	ND	416	104	400	7.41	

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/05/2024
 Reported: 03/08/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: EDDY CO., NM

Sampling Date: 03/05/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Dionica Hinojos

Sample ID: DS - 6 0 - .25' (H241105-29)

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	03/07/2024	ND	2.36	118	2.00	1.72	
Toluene*	<0.050	0.050	03/07/2024	ND	2.29	114	2.00	1.69	
Ethylbenzene*	<0.050	0.050	03/07/2024	ND	2.27	114	2.00	2.37	
Total Xylenes*	<0.150	0.150	03/07/2024	ND	6.82	114	6.00	2.35	
Total BTEX	<0.300	0.300	03/07/2024	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	03/08/2024	ND	416	104	400	7.41		

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	03/07/2024	ND	187	93.7	200	1.24	
DRO >C10-C28*	<10.0	10.0	03/07/2024	ND	186	92.9	200	0.811	
EXT DRO >C28-C36	<10.0	10.0	03/07/2024	ND					

Surrogate: 1-Chlorooctane 99.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolven LLC Project Manager: Beards Jennings Address: 601 McCartfield #400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 0381417142 Project Owner: Project Name: Morris Federal #1 Project Location: Eddy Co NM Sampler Name: Nick Dieter Stone D.H.		BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
FOR LAB USE ONLY		MATRIX (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE/COOL OTHER :		PRESERV. SAMPLING	
Lab I.D. H241105	Sample I.D. Depth 0.25'	DATE TIME	TPH 8015 BTEX 80216 Chlorides 4500		
1	F-5-Q1	C 1	X	3-5-24	1306
2	F-5-Q2	C 1	X	3-5-24	1310
3	F-5-Q3	C 1	X	3-5-24	1303
4	F-5-Q4	C 1	X	3-5-24	1259
5	F-5-Q5	C 1	X	3-5-24	1250
6	F-5-Q6	C 1	X	3-5-24	1247
7	F-5-Q7	C 1	X	3-5-24	1307
8	F-5-Q8	C 1	X	3-5-24	1305
9	F-5-Q9	C 1	X	3-5-24	1301
10	F-5-Q10	C 1	X	3-5-24	1258

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Relinquished By: [Signature] Date: 3-5-24 Time: 16:27 Relinquished By: [Signature]	Received By: [Signature] Date: 3-5-24 Time: 16:27 Received By: [Signature]	REMARKS:
--	--	-----------------

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C 3.9°C Corrected Temp. °C	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Turnaround ID #140 Correction Factor 0°C	Standard Rush	<input checked="" type="checkbox"/>	Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C Corrected Temp. °C
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FORM-0007 R-3-4 07/11/23

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselum LLC Project Manager: Brock Jennings Address: 601 McCallfield #400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8858 Fax #: Project #: 0381417142 Project Owner: Project Name: Mexis Federal #1 Project Location: Eddy Co NM Sampler Name: Mark Baker Stone D.H.				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST															
FOR LAB USE ONLY				LAB I.D.				Sample I.D.				Depth											
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising from this 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. *Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				Relinquished By: [Signature] Date: 3-5-24 Time: 10:27 Relinquished By: [Signature]				Received By: [Signature] Date: 3-5-24 Time: 10:27 Received By: [Signature]				REMARKS:											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C: 3.99 Corrected Temp. °C:				Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				CHECKED BY: (Initials) Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Correction Factor 0°C				Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C							
FOR LAB USE ONLY				Lab I.D.				Sample I.D.				Depth											
11 12 13 14 15 16 17 18				1-5-101 1-5-102 1-5-103 1-5-104 1-5-105 1-5-106 1-5-107 1-5-108				0.25' 0.25' 0.25' 0.25' 0.25' 0.25' 0.25'				(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE COOL OTHER :				DATE TIME				TPH 8015 BTEX 80216 Chlorides 4500			



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolver LLC Project Manager: Beau Jennings Address: 601 Mericfield #400 City: Midland State: TX Zip: 79701 Phone #: 210-219-8838 Fax #: Project #: 03B1417142 Project Owner: Project Name: Mar's Federal #1 Project Location: Eddy Co NM Sample Name: Nal Ducker Shant Diller FOR LAB USE ONLY				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:				ANALYSIS REQUEST			
Lab I.D. H241105		Sample I.D. Depr		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		MATRIX PRESERV SAMPLING		DATE TIME		TPH 8015 BTEX 80216 Chlorides 4500	
19	SW-1	0-1.5	C 1	X		3-5-24	1238	X	X	X	
20	SW-2	0-1.5	C 1	X		3-5-24	1241	X	X	X	
21	SW-3	0-1.5	C 1	X		3-5-24	1242	X	X	X	
22	SW-4	0-1.5	C 1	X		3-5-24	1245	X	X	X	
23	SW-5	0-1.5	C 1	X		3-5-24	1235	X	X	X	
24	DS-1	0-2.5	C 1	X		3-5-24	1216	X	X	X	
25	DS-2	0-2.5	C 1	X		3-5-24	1217	X	X	X	
26	DS-3	0-2.5	C 1	X		3-5-24	1218	X	X	X	
27	DS-4	0-2.5	C 1	X		3-5-24	1219	X	X	X	
28	DS-5	0-2.5	C 1	X		3-5-24	1220	X	X	X	

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Relinquished By: [Signature] Date: 3-5-24 Time: 10:23 Received By: [Signature] Date: 3-5-24 Time: 10:23	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: REMARKS: All Results are emailed. Please provide Email address:
--	---

Delivered By: (Circle One) Sample - UPS - Bus - Other: Observed Temp. °C: 39.2 Corrected Temp. °C: 41.40 Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> CHECKED BY: (Initials) [Signature]	Turnaround Time: Thermometer ID #140 Correction Factor 0°C Standard <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C
--	--

FORM 0007-3-9 07/11/23

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselum LLC Project Manager: Beau Jennings Address: 601 Maricfield #400 City: MIDLAND State: TX Zip: 79701 Phone #: 210 219 8838 Fax #: Project #: 03B1417142 Project Owner: Project Name: Maris Federal #1 Project Location: Eddy Co NM Sampler Name: Noah Decker Shand Diller FOR LAB USE ONLY				BILL TO P.O. #: Company: Attn: Address: City: State: Zip: Phone #: Fax #:		ANALYSIS REQUEST	
Lab I.D. H241105 Sample I.D. D5-C Depth 5-25 ft (G)RAB OR (C)OMP. 41 # CONTAINERS GROUNDWATER WASTEWATER SOIL X OIL SLUDGE OTHER: ACID/BASE: (ICE) COOL X OTHER: DATE 3-5-24 TIME 1221 TPH 8015 X BTEX 80216 X Chlorides 4500 X				MATRIX PRESERV. SAMPLING			
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, its affiliates or successors.				Relinquished By: [Signature] Date: 3-5-24 Time: 16:23 Received By: [Signature] Date: 3-5-24 Time: 16:23 Relinquished By: [Signature] Date: 3-5-24 Time: 16:23 Received By: [Signature]		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide E-mail address: REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: Observed Temp. °C 3.9K Corrected Temp. °C #140 Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Checked By: [Signature] (Initials) Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #140 Bacteria (only) <input type="checkbox"/> Correction Factor 0°C Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C							

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

May 09, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 04/30/24 13:34.

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

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

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 28 24"	H242299-01	Soil	29-Apr-24 10:46	30-Apr-24 13:34
FS - 29 24"	H242299-02	Soil	29-Apr-24 10:50	30-Apr-24 13:34
FS - 30 24"	H242299-03	Soil	29-Apr-24 10:54	30-Apr-24 13:34
FS - 65 24"	H242299-04	Soil	29-Apr-24 10:32	30-Apr-24 13:34
FS - 66 24"	H242299-05	Soil	29-Apr-24 01:34	30-Apr-24 13:34
FS - 78 3"	H242299-06	Soil	29-Apr-24 10:42	30-Apr-24 13:34
FS - 87 24"	H242299-07	Soil	29-Apr-24 10:40	30-Apr-24 13:34
SW - 28 0-24"	H242299-08	Soil	29-Apr-24 10:48	30-Apr-24 13:34
SW - 29 0-24"	H242299-09	Soil	29-Apr-24 10:52	30-Apr-24 13:34
SW - 30 0-24"	H242299-10	Soil	29-Apr-24 10:56	30-Apr-24 13:34
SW - 65 0-24"	H242299-11	Soil	29-Apr-24 10:36	30-Apr-24 13:34
SW - 66 0-24"	H242299-12	Soil	29-Apr-24 10:38	30-Apr-24 13:34
SW - 87 0-24"	H242299-13	Soil	29-Apr-24 10:30	30-Apr-24 13:34

05/09/24 - Client added chloride to sample -03 (see COC). This is the revised report and will replace the one sent on 05/06/24.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 28 24"
H242299-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043024	MS	02-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4043024	MS	02-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043024	MS	02-May-24	8015B	
Surrogate: 1-Chlorooctane			106 %	48.2-134		4043024	MS	02-May-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4043024	MS	02-May-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 29 24"
H242299-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	15.5		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctane			94.7 %	48.2-134		4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctadecane			101 %	49.1-148		4043025	ms	01-May-24	8015B	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 30 24"
H242299-03 (Soil)

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

Chloride	192		16.0	mg/kg	4	4050823	AC	08-May-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B
Surrogate: 1-Chlorooctane		101 %	48.2-134		4043025	ms	01-May-24	8015B
Surrogate: 1-Chlorooctadecane		108 %	49.1-148		4043025	ms	01-May-24	8015B

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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 65 24"
H242299-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	15.4		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctane			93.1 %	48.2-134		4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctadecane			98.5 %	49.1-148		4043025	ms	01-May-24	8015B	

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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 66 24"
H242299-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctane			99.8 %	48.2-134		4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctadecane			105 %	49.1-148		4043025	ms	01-May-24	8015B	

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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 78 3"
H242299-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctane			80.4 %	48.2-134		4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctadecane			80.8 %	49.1-148		4043025	ms	01-May-24	8015B	

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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

FS - 87 24"
H242299-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Petroleum Hydrocarbons by GC FID**

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	24.7		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctane			92.7 %	48.2-134		4043025	ms	01-May-24	8015B	
Surrogate: 1-Chlorooctadecane			96.4 %	49.1-148		4043025	ms	01-May-24	8015B	

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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 28 0-24"**H242299-08 (Soil)**

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

Chloride	16.0		16.0	mg/kg	4	4050236	AC	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050117	JH	02-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050117	JH	02-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %		71.5-134	4050117	JH	02-May-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	

Surrogate: 1-Chlorooctane			92.4 %		48.2-134	4043025	ms	01-May-24	8015B	
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Surrogate: 1-Chlorooctadecane			103 %		49.1-148	4043025	ms	01-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 29 0-24"**H242299-09 (Soil)**

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

Chloride	144		16.0	mg/kg	4	4050236	AC	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4050117	JH	02-May-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4050117	JH	02-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4050117	JH	02-May-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	

Surrogate: 1-Chlorooctane	77.1 %	48.2-134	4043025	ms	01-May-24	8015B	
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Surrogate: 1-Chlorooctadecane	80.0 %	49.1-148	4043025	ms	01-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 30 0-24"**H242299-10 (Soil)**

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

Chloride	256		16.0	mg/kg	4	4050236	AC	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4050117	JH	02-May-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4050117	JH	02-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4050117	JH	02-May-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	35.2	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	

Surrogate: 1-Chlorooctane	85.7 %	48.2-134	4043025	ms	01-May-24	8015B	
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Surrogate: 1-Chlorooctadecane	91.7 %	49.1-148	4043025	ms	01-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 65 0-24"
H242299-11 (Soil)

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

Chloride	304		16.0	mg/kg	4	4050245	HM	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Toluene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	4050117	JH	02-May-24	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	4050117	JH	02-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4050117	JH	02-May-24	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4043025	ms	01-May-24	8015B	

Surrogate: 1-Chlorooctane	78.4 %	48.2-134	4043025	ms	01-May-24	8015B	
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Surrogate: 1-Chlorooctadecane	81.3 %	49.1-148	4043025	ms	01-May-24	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 66 0-24"**H242299-12 (Soil)**

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

Chloride	112		16.0	mg/kg	4	4050245	HM	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Toluene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	4050117	JH	02-May-24	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	4050117	JH	02-May-24	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	4050117	JH	02-May-24	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134 4050117 JH 02-May-24 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4043025	ms	01-May-24	8015B	

Surrogate: 1-Chlorooctane 80.0 % 48.2-134 4043025 ms 01-May-24 8015B

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148 4043025 ms 01-May-24 8015B

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

SW - 87 0-24"
H242299-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	256		16.0	mg/kg	4	4050245	HM	02-May-24	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B
Toluene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B
Ethylbenzene*	<0.050	0.050	mg/kg	50	4050117	JH	02-May-24	8021B
Total Xylenes*	<0.150	0.150	mg/kg	50	4050117	JH	02-May-24	8021B
Total BTEX	<0.300	0.300	mg/kg	50	4050117	JH	02-May-24	8021B

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	4050117	JH	02-May-24	8021B
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	4043025	ms	02-May-24	8015B
DRO >C10-C28*	<10.0	10.0	mg/kg	1	4043025	ms	02-May-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4043025	ms	02-May-24	8015B

Surrogate: 1-Chlorooctane	79.2 %	48.2-134	4043025	ms	02-May-24	8015B
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Surrogate: 1-Chlorooctadecane	83.0 %	49.1-148	4043025	ms	02-May-24	8015B
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050236 - 1:4 DI Water**Blank (4050236-BLK1)**

Prepared & Analyzed: 02-May-24

Chloride	ND	16.0	mg/kg						
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LCS (4050236-BS1)

Prepared & Analyzed: 02-May-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (4050236-BSD1)

Prepared & Analyzed: 02-May-24

Chloride	416	16.0	mg/kg	400	104	80-120	3.77	20	
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Batch 4050245 - 1:4 DI Water**Blank (4050245-BLK1)**

Prepared & Analyzed: 02-May-24

Chloride	ND	16.0	mg/kg						
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LCS (4050245-BS1)

Prepared & Analyzed: 02-May-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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LCS Dup (4050245-BSD1)

Prepared & Analyzed: 02-May-24

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20	
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Batch 4050823 - 1:4 DI Water**Blank (4050823-BLK1)**

Prepared & Analyzed: 08-May-24

Chloride	ND	16.0	mg/kg						
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LCS (4050823-BS1)

Prepared & Analyzed: 08-May-24

Chloride	432	16.0	mg/kg	400	108	80-120			
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050823 - 1:4 DI Water**LCS Dup (4050823-BSD1)**

Prepared & Analyzed: 08-May-24

Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4050117 - Volatiles**Blank (4050117-BLK1)**

Prepared: 01-May-24 Analyzed: 02-May-24

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0534		mg/kg	0.0500		107	71.5-134			

LCS (4050117-BS1)

Prepared: 01-May-24 Analyzed: 02-May-24

Benzene	2.11	0.050	mg/kg	2.00		106	82.8-130			
Toluene	2.20	0.050	mg/kg	2.00		110	86-128			
Ethylbenzene	2.22	0.050	mg/kg	2.00		111	85.9-128			
m,p-Xylene	4.53	0.100	mg/kg	4.00		113	89-129			
o-Xylene	2.20	0.050	mg/kg	2.00		110	86.1-125			
Total Xylenes	6.72	0.150	mg/kg	6.00		112	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0522		mg/kg	0.0500		104	71.5-134			

LCS Dup (4050117-BSD1)

Prepared: 01-May-24 Analyzed: 02-May-24

Benzene	2.00	0.050	mg/kg	2.00		99.8	82.8-130	5.61	15.8	
Toluene	2.08	0.050	mg/kg	2.00		104	86-128	5.41	15.9	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	85.9-128	5.74	16	
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	89-129	4.71	16.2	
o-Xylene	2.08	0.050	mg/kg	2.00		104	86.1-125	5.37	16.7	
Total Xylenes	6.40	0.150	mg/kg	6.00		107	88.2-128	4.92	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0511		mg/kg	0.0500		102	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 4043024 - General Prep - Organics**Blank (4043024-BLK1)**

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	55.3		mg/kg	50.0		111	48.2-134			
Surrogate: 1-Chlorooctadecane	55.9		mg/kg	50.0		112	49.1-148			

LCS (4043024-BS1)

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	199	10.0	mg/kg	200		99.6	66.4-123			
DRO >C10-C28	222	10.0	mg/kg	200		111	66.5-118			
Total TPH C6-C28	422	10.0	mg/kg	400		105	77.6-123			
Surrogate: 1-Chlorooctane	58.4		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	58.2		mg/kg	50.0		116	49.1-148			

LCS Dup (4043024-BS1)

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	195	10.0	mg/kg	200		97.7	66.4-123	1.91	17.7	
DRO >C10-C28	218	10.0	mg/kg	200		109	66.5-118	1.81	21	
Total TPH C6-C28	414	10.0	mg/kg	400		103	77.6-123	1.85	18.5	
Surrogate: 1-Chlorooctane	54.2		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	54.7		mg/kg	50.0		109	49.1-148			

Batch 4043025 - General Prep - Organics**Blank (4043025-BLK1)**

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	54.8		mg/kg	50.0		110	48.2-134			
Surrogate: 1-Chlorooctadecane	58.8		mg/kg	50.0		118	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: MARIS FEDERAL #1
Project Number: 03B1417142
Project Manager: KELLY LOWERY
Fax To:

Reported:
09-May-24 09:25

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 4043025 - General Prep - Organics**LCS (4043025-BS1)**

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	212	10.0	mg/kg	200		106	66.4-123			
DRO >C10-C28	203	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	415	10.0	mg/kg	400		104	77.6-123			
Surrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	48.2-134			
Surrogate: 1-Chlorooctadecane	61.9		mg/kg	50.0		124	49.1-148			

LCS Dup (4043025-BS1)

Prepared: 30-Apr-24 Analyzed: 01-May-24

GRO C6-C10	222	10.0	mg/kg	200		111	66.4-123	4.40	17.7	
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118	1.77	21	
Total TPH C6-C28	428	10.0	mg/kg	400		107	77.6-123	3.12	18.5	
Surrogate: 1-Chlorooctane	56.0		mg/kg	50.0		112	48.2-134			
Surrogate: 1-Chlorooctadecane	59.4		mg/kg	50.0		119	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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

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. Marientfield St. STE 400

City: Midland State: TX Zip: 79701

Phone #: 214-733-3165

Email: klowery@ensolum.com

Project #: 0381417142

Project Owner: Oxy USA, Inc.

Project Name: Maris Federal #001

Project Location: Eddy County, New Mexico

Sample Name: Kelly Lowery

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Sample Depth
(feet) or
inches

H343379

FS-28

FS-29

FS-30

FS-65

FS-66

FS-78

FS-87

SW-28

SW-29

SW-30

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015M

BTEX 8021B

Chloride 4500

CL added to 5/1/24

ANALYSIS REQUEST

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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 theories or otherwise.

Relinquished By:

Date: 4/3/24

Received By:

Date: 4/3/24

Verbal Result: ☐ Yes ☒ No

Add'l Phone #:

Relinquished By:

Date: 4/3/24

Received By:

Date: 4/3/24

REMARKS: Paykey/AFFENONAFE:

All Results are emailed. Please provide Email address:
klowery@ensolum.com / Bjennings@ensolum.com

Delivered By: (Circle One)

Observed Temp. °C

Corrected Temp. °C

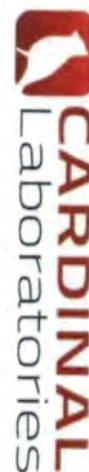
CHECKED BY: (Initials)

Thermometer ID #443 APC

Correction Factor: -0.02°C

Pg 1/2

FORM-006 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

May 16, 2024

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 05/10/24 10:26.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/10/2024
 Reported: 05/16/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 3 0-36" (H242556-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	11.7	10.0	05/13/2024	ND	183	91.3	200	1.81	
EXT DRO >C28-C36	<10.0	10.0	05/13/2024	ND					

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

July 03, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 07/02/24 13:46.

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 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: 07/02/2024
 Reported: 07/03/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 27 20" (H243971-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	184	92.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	182	90.8	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					
Surrogate: 1-Chlorooctane	89.8 %	48.2-134							
Surrogate: 1-Chlorooctadecane	97.8 %	49.1-148							

Sample ID: FS - 34 6" (H243971-02)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/03/2024	ND	184	92.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	182	90.8	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					
Surrogate: 1-Chlorooctane	93.7 %	48.2-134							
Surrogate: 1-Chlorooctadecane	107 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 07/02/2024
 Reported: 07/03/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 07/02/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 51 6" (H243971-03)

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	07/03/2024	ND	184	92.0	200	2.84	
DRO >C10-C28*	<10.0	10.0	07/03/2024	ND	182	90.8	200	4.02	
EXT DRO >C28-C36	<10.0	10.0	07/03/2024	ND					
Surrogate: 1-Chlorooctane	101 %	48.2-134							
Surrogate: 1-Chlorooctadecane	111 %	49.1-148							

Sample ID: SW - 1 0-18" (H243971-04)

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	07/03/2024	ND	416	104	400	3.77		

Sample ID: SW - 5 0-18" (H243971-05)

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	07/03/2024	ND	416	104	400	3.77		

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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 cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Page 5 of 5



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

October 31, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 10/23/24 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 2 19" (H246459-01)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2024	ND	240	120	200	1.87	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	234	117	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	116 %	48.2-134							
Surrogate: 1-Chlorooctadecane	120 %	49.1-148							

Sample ID: FS - 5 19" (H246459-02)

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	10/24/2024	ND	416	104	400	10.9	
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	10/24/2024	ND	240	120	200	1.87	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	234	117	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	122 %	48.2-134							
Surrogate: 1-Chlorooctadecane	126 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 6 19" (H246459-03)

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	10/24/2024	ND	416	104	400	10.9		

Sample ID: FS - 8 19" (H246459-04)

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	10/24/2024	ND	416	104	400	10.9	

Sample ID: FS - 10 19" (H246459-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	10/24/2024	ND	416	104	400	10.9	

Sample ID: FS - 12 19" (H246459-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	10/24/2024	ND	416	104	400	10.9		

Sample ID: FS - 13 19" (H246459-07)

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	10/24/2024	ND	416	104	400	10.9	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 15 19" (H246459-08)

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	10/24/2024	ND	240	120	200	1.87	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	234	117	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	126 %	48.2-134							
Surrogate: 1-Chlorooctadecane	130 %	49.1-148							

Sample ID: FS - 18 19" (H246459-09)

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	10/24/2024	ND	240	120	200	1.87	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	234	117	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	124 %	48.2-134							
Surrogate: 1-Chlorooctadecane	127 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 58 4" (H246459-10)

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	10/24/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	106 %	48.2-134							
Surrogate: 1-Chlorooctadecane	104 %	49.1-148							

Sample ID: FS - 59 4" (H246459-11)

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	10/24/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	122 %	48.2-134							
Surrogate: 1-Chlorooctadecane	125 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 60 4" (H246459-12)

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	10/24/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	124 %	48.2-134							
Surrogate: 1-Chlorooctadecane	128 %	49.1-148							

Sample ID: FS - 61 4" (H246459-13)

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	10/24/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	119 %	48.2-134							
Surrogate: 1-Chlorooctadecane	121 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 62 4" (H246459-14)

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	10/24/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	112 %	48.2-134							
Surrogate: 1-Chlorooctadecane	114 %	49.1-148							

Sample ID: FS - 63 4" (H246459-15)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	120 %	48.2-134							
Surrogate: 1-Chlorooctadecane	120 %	49.1-148							

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 64 4" (H246459-16)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
<hr/>									
Surrogate: 1-Chlorooctane	110 %	48.2-134							
Surrogate: 1-Chlorooctadecane	113 %	49.1-148							

Sample ID: FS - 67 4" (H246459-17)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	123 %	48.2-134							
Surrogate: 1-Chlorooctadecane	126 %	49.1-148							

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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 68 4" (H246459-18)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

Sample ID: FS - 69 4" (H246459-19)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 70 4" (H246459-20)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	120 %	48.2-134							
Surrogate: 1-Chlorooctadecane	124 %	49.1-148							

Sample ID: FS - 71 4" (H246459-21)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	124 %	48.2-134							
Surrogate: 1-Chlorooctadecane	132 %	49.1-148							

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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 72 4" (H246459-22)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	126 %	48.2-134							
Surrogate: 1-Chlorooctadecane	130 %	49.1-148							

Sample ID: FS - 73 4" (H246459-23)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	125 %	48.2-134							
Surrogate: 1-Chlorooctadecane	129 %	49.1-148							

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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 74 4" (H246459-24)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	126 %	48.2-134							
Surrogate: 1-Chlorooctadecane	130 %	49.1-148							

Sample ID: FS - 75 4" (H246459-25)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	123 %	48.2-134							
Surrogate: 1-Chlorooctadecane	125 %	49.1-148							

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 76 4" (H246459-26)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	121 %	48.2-134							
Surrogate: 1-Chlorooctadecane	124 %	49.1-148							

Sample ID: FS - 77 4" (H246459-27)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	125 %	48.2-134							
Surrogate: 1-Chlorooctadecane	127 %	49.1-148							

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Analytical Results For:

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 78 4" (H246459-28)

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	10/24/2024	ND	416	104	400	10.9	
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	10/30/2024	ND	224	112	200	1.54	
DRO >C10-C28*	<10.0	10.0	10/30/2024	ND	205	102	200	1.73	
EXT DRO >C28-C36	<10.0	10.0	10/30/2024	ND					
Surrogate: 1-Chlorooctane	97.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	96.1 %	49.1-148							

Sample ID: FS - 79 4" (H246459-29)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	10/24/2024	ND	432	108	400	0.00		

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 84 4" (H246459-30)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	113 %	48.2-134							
Surrogate: 1-Chlorooctadecane	116 %	49.1-148							

Sample ID: FS - 85 4" (H246459-31)

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	10/25/2024	ND	211	105	200	2.37	
DRO >C10-C28*	<10.0	10.0	10/25/2024	ND	215	107	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	10/25/2024	ND					
Surrogate: 1-Chlorooctane	115 %	48.2-134							
Surrogate: 1-Chlorooctadecane	120 %	49.1-148							

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

Received: 10/23/2024
 Reported: 10/31/2024
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 10/23/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 86 4" (H246459-32)

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	10/24/2024	ND	218	109	200	4.91	
DRO >C10-C28*	<10.0	10.0	10/24/2024	ND	202	101	200	3.82	
EXT DRO >C28-C36	<10.0	10.0	10/24/2024	ND					
Surrogate: 1-Chlorooctane	92.4 %	48.2-134							
Surrogate: 1-Chlorooctadecane	81.1 %	49.1-148							

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

Phone #: 214-733-3165

Project #: 03B1417142

Project Name: Maris Federal #001

Project Location: Eddy County, New Mexico

Sampler Name: Tabitha Guadian

FOR LAB USE ONLY

BILL TO

P.O. #:

Oxy, USA, Inc.

Attn: Wade Dittich

Address:

City:

State:

Phone #

Fax #:

ANALYSIS REQUEST

Address: 601 N Marlenfeld Street, Suite 400										Oxy, USA, Inc.									
City: Midland										Attn: Wade Dittrich									
Phone #: 214-733-3165										Address:									
Fax #: 214-733-3165										City:									
Project #: 03B1417142										State: Zip:									
Project Name: Maris Federal #001										Phone #:									
Project Location: Eddy County, New Mexico										Fax #:									
Sampler Name: Tabitha Guadian																			
FOR LAB USE ONLY																			
Lab I.D.										Sample I.D.									
Depth										(G)RAB OR (C)OMP.									
										# CONTAINERS									
										GROUNDWATER									
										WASTEWATER									
										SOIL									
										OIL									
										SLUDGE									
										OTHER :									
										ACID/BASE:									
										ICE / COOL									
										OTHER :									
										DATE									
										TIME									
										TPH 8015M									
										Chlorides 4500									
</																			

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Relinquished By:

Date: 10/23/24

Received By:

Relinquished By:

Date: 10/23/24

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C: 14.2

Corrected Temp. °C: 0.8

Sample Condition Cool Intact ☒ Yes ☐ No

CHECKED BY: (Initials)

Turnaround Time: 48h

Standard Rush ☒

Bacteria (only) Sample Condition Cool Intact ☒ Yes ☐ No

Thermometer ID #13140

Corrosion Factor -0.5°C -0.1°C

Corrected Temp. °C

Verbal Result: ☐ Yes ☐ No Add'l Phone #: All Results are emailed. Please provide Email address: klower@ensolum.com

REMARKS:

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		BILL TO		P.O. #:		ANALYSIS REQUEST	
Project Manager: Kelly Lowery		Address: 601 N Marlenfeld Street, Suite 400		City: Midland		State: TX Zip: 79701	
Phone #: 214-733-3165		Fax #: 214-733-3165		Project Owner: Maris Federal #001		City: State: Zip:	
Project Location: Eddy County, New Mexico		Sample Name: Tabitha Guadian		Phone #:		Fax #:	
FOR LAB USE ONLY		Lab I.D. Sample I.D.		Depth		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	
FS-71 4" C FS-72 4" C FS-73 4" C FS-74 4" C FS-75 4" C FS-76 4" C FS-77 4" C FS-78 4" C FS-79 4" C FS-84 4" C		10/23/24 1110 X 10/23/24 1112 X 10/23/24 1141 X 10/23/24 1116 X 10/23/24 1118 X 10/23/24 1120 X 10/23/24 1122 X 10/23/24 1124 X 10/23/24 1129 X 10/23/24 1128 X		TPH 8015M Chlorides 4500		X X X X X X X X X	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C: 14.0 Corrected Temp. °C: 10.8		Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Sample Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) PD	
Relinquished By: [Signature]		Date: 10/23/24 Time: 1400		Received By: [Signature]		Date: 10/23/24 Time: 1400	
REMARKS:		* Cust. requested added analysis to 10/24/24 Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #437110 <input checked="" type="checkbox"/> Bacteria (only) Sample Condition <input checked="" type="checkbox"/> Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Correction Factor -0.5°C/0.0°C <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No					

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

Company Name: Ensolum, LLC

4 of 4

[illegible]



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

March 25, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/20/25 14:14.

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 68 1/3' (H251649-01)

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	03/21/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	03/24/2025	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	03/21/2025	ND	201	101	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	196	97.8	200	0.167	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 78 1/3' (H251649-02)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	03/24/2025	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	03/21/2025	ND	201	101	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	196	97.8	200	0.167	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 76 1/3' (H251649-03)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/24/2025	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	03/21/2025	ND	201	101	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	196	97.8	200	0.167	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 61 1/3' (H251649-04)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	03/24/2025	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	03/21/2025	ND	201	101	200	2.20	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	196	97.8	200	0.167	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.2 % 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, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 67 1/3' (H251649-05)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/24/2025	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	03/21/2025	ND	201	101	200	2.20	
DRO >C10-C28*	24.0	10.0	03/21/2025	ND	196	97.8	200	0.167	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.8 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 72 1/3' (H251649-06)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	03/24/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 96.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 75 1/3' (H251649-07)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	192	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 71 1/3' (H251649-08)

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	03/21/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	160	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 60 1/3' (H251649-09)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	464	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 70 1/3' (H251649-10)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 77 12" (H251649-11)

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	03/21/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	144	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 103 % 40.6-153

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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 79 4" (H251649-12)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	240	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 74 4" (H251649-13)

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	03/21/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	128	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/18/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 69 4" (H251649-14)

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	03/21/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	144	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 24" (H251649-15)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	224	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 85.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 84 4" (H251649-16)

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	03/21/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	128	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 92.6 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 85 4" (H251649-17)

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	03/22/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	208	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 86.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 86 4" (H251649-18)

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	03/22/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	5.86	97.7	6.00	0.300		
Total BTEX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	160	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	22.7	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 98.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 62 12" (H251649-19)

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	03/22/2025	ND	1.92	96.0	2.00	2.96		
Toluene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	0.969		
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.00	99.8	2.00	0.0271		
Total Xylenes*	<0.150	0.150	03/22/2025	ND	5.86	97.7	6.00	0.300		
Total BTX	<0.300	0.300	03/22/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	336	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 73 12" (H251649-20)

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	03/22/2025	ND	1.92	96.0	2.00	2.96	
Toluene*	<0.050	0.050	03/22/2025	ND	2.03	102	2.00	0.969	
Ethylbenzene*	<0.050	0.050	03/22/2025	ND	2.00	99.8	2.00	0.0271	
Total Xylenes*	<0.150	0.150	03/22/2025	ND	5.86	97.7	6.00	0.300	
Total BTEX	<0.300	0.300	03/22/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	224	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 36" (H251649-21)

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	03/21/2025	ND	1.96	97.9	2.00	2.05	
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	320	16.0	03/21/2025	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	03/21/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 95.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 48" (H251649-22)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTEX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	176	16.0	03/21/2025	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	03/22/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 98.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 30" (H251649-23)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	272	16.0	03/21/2025	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	03/22/2025	ND	230	115	200	5.98	
DRO >C10-C28*	<10.0	10.0	03/22/2025	ND	214	107	200	6.68	
EXT DRO >C28-C36	<10.0	10.0	03/22/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 58 4" (H251649-24)

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	03/21/2025	ND	1.96	97.9	2.00	2.05	
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782	
Total BTX	<0.300	0.300	03/21/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	208	16.0	03/21/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 76.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 72.8 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 64 4" (H251649-25)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTEx	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	80.0	16.0	03/21/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 63 4" (H251649-26)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTX	<0.300	0.300	03/21/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	03/21/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.6 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 34 36" (H251649-27)

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	03/21/2025	ND	1.96	97.9	2.00	2.05	
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782	
Total BTX	<0.300	0.300	03/21/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/24/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.0 % 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: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 59 4" (H251649-28)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTX	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	03/24/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 87.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 36" (H251649-29)

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	03/21/2025	ND	1.96	97.9	2.00	2.05	
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52	
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07	
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782	
Total BTEX	<0.300	0.300	03/21/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/24/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/20/2025
 Reported: 03/25/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY - EDDY CO., NM

Sampling Date: 03/19/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW 01 0-36" (H251649-30)

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	03/21/2025	ND	1.96	97.9	2.00	2.05		
Toluene*	<0.050	0.050	03/21/2025	ND	2.02	101	2.00	1.52		
Ethylbenzene*	<0.050	0.050	03/21/2025	ND	2.03	102	2.00	1.07		
Total Xylenes*	<0.150	0.150	03/21/2025	ND	6.18	103	6.00	0.782		
Total BTEx	<0.300	0.300	03/21/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	03/24/2025	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	03/21/2025	ND	204	102	200	7.25	
DRO >C10-C28*	<10.0	10.0	03/21/2025	ND	214	107	200	7.18	
EXT DRO >C28-C36	<10.0	10.0	03/21/2025	ND					

Surrogate: 1-Chlorooctane 89.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.8 % 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".

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

Page 34 of 35



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: Kelly Lowery		Company: Oxy USA, Inc.					
Address: 601 N. Marland St. STE 400		Attn: Wade Dittich					
City: Midland		Address:					
Phone #: 210-219-8858		State: TX Zip: 79701					
Project #: 0361417142		Project Owner: Oxy					
Project Name: Maris Federal #001		City:					
Project Location: Eddy Co NM		State: Zip:					
Sampler Name: Kaden Shumway Nicholas Christalas		Phone #: 575-390-2828					
FOR LAB USE ONLY		Fax #:					
Lab I.D.	Sample I.D.	Sample Depth (feet) in	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING
					GROUNDWATER		
					WASTEWATER		
					SOIL		
					OIL		
					SLUDGE		
					OTHER :		
					ACID/BASE:		
					ICE / COOL		
					OTHER :		
					DATE	TIME	
HS7149	F-512	36"		1	3/19/25	11:15	BIEX 8021 B
21	F-510	48"		1	12:00		TPH 8015M
22	F-513	30"		1	12:02		Chloride 4500
23	F-558	4"		1	13:05		
24	F-564	4"		1	13:08		
25	F-563	4"		1	13:11		
26	F-534	36"		1	13:48		
27	F-559	4"		1	14:10		
28	F-508	36"		1	14:41		
29	SW1	0-36"		1	14:50		
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Relinquished By: <i>Melinda Williams</i>		Date: 3-20-25		Received By: <i>Wade Dittich</i>		Date: 3/14/25	
Time: 14:14		Time:		Time:		Time:	
Delivered By: (Circle One)		Observed Temp.: °C 28		Sample Condition Cool Intact Yes No		CHECKED BY: (Initials) <i>WD</i>	
Sampler - UPS - Bus - Other:		Corrected Temp.: °C 31		Cool Intact Yes No		T turnaround Time: 3 Day TAT	
FORM 000 N 3-2-10 07/17/21		† Cardinal cannot accept verbal changes. Please email changes to coley.keene@cardinallabsnm.com		Thermometer ID #13		Standard Rush	
				Correction Factor -0.3°C		Bacteria (only) Sample Condition Cool Intact Yes No	
						Observed Temp.: °C	
						Corrected Temp.: °C	



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

March 26, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 03/21/25 16:34.

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 2 7' (H251692-01)

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	03/24/2025	ND	1.86	93.1	2.00	0.737	
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81	
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40	
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26	
Total BTEX	<0.300	0.300	03/24/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	352	16.0	03/25/2025	ND	416	104	400	7.41		

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.9 % 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: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 6 7' (H251692-02)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	03/25/2025	ND	416	104	400	7.41		

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 3' (H251692-03)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	03/25/2025	ND	416	104	400	7.41		

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 96.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 3' (H251692-04)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/25/2025	ND	416	104	400	7.41	

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 91.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.2 % 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, LLC
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 3' (H251692-05)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEx	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	03/25/2025	ND	416	104	400	7.41		

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 3' (H251692-06)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEX	<0.300	0.300	03/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/25/2025	ND	416	104	400	7.41	

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 3' (H251692-07)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/25/2025	ND	416	104	400	7.41		

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 83.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/21/2025
 Reported: 03/26/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 03/20/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 3 0-3' (H251692-08)

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	03/24/2025	ND	1.86	93.1	2.00	0.737		
Toluene*	<0.050	0.050	03/24/2025	ND	1.95	97.5	2.00	1.81		
Ethylbenzene*	<0.050	0.050	03/24/2025	ND	1.97	98.7	2.00	3.40		
Total Xylenes*	<0.150	0.150	03/24/2025	ND	6.11	102	6.00	2.26		
Total BTEX	<0.300	0.300	03/24/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/25/2025	ND	416	104	400	7.41	

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	03/24/2025	ND	194	96.9	200	5.82	
DRO >C10-C28*	<10.0	10.0	03/24/2025	ND	192	95.9	200	5.65	
EXT DRO >C28-C36	<10.0	10.0	03/24/2025	ND					

Surrogate: 1-Chlorooctane 90.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.3 % 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".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



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

April 10, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 04/07/25 11:46.

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 5 11.5' (H252037-01)

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	04/08/2025	ND	2.08	104	2.00	1.76	
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821	
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17	
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47	
Total BTX	<0.300	0.300	04/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1390	16.0	04/08/2025	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	04/07/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 81.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.8 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW 5 0-18" (H252037-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821		
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17		
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47		
Total BTEX	<0.300	0.300	04/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/08/2025	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	04/07/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 24" (H252037-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821		
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17		
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47		
Total BTEX	<0.300	0.300	04/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/08/2025	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	04/07/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/07/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/07/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.1 % 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: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 51 6" (H252037-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76	
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821	
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17	
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47	
Total BTEX	<0.300	0.300	04/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/08/2025	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	04/08/2025	ND	217	109	200	1.39	
DRO >C10-C28*	11.9	10.0	04/08/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 87.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 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: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 65 24" (H252037-05)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76	
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821	
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17	
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47	
Total BTEX	<0.300	0.300	04/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/08/2025	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	04/08/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 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: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 66 24" (H252037-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76	
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821	
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17	
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47	
Total BTEX	<0.300	0.300	04/08/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	04/08/2025	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	04/08/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.7 % 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: 04/07/2025
 Reported: 04/10/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 04/04/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 87 10' (H252037-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/08/2025	ND	2.08	104	2.00	1.76		
Toluene*	<0.050	0.050	04/08/2025	ND	2.11	105	2.00	0.821		
Ethylbenzene*	<0.050	0.050	04/08/2025	ND	2.07	103	2.00	1.17		
Total Xylenes*	<0.150	0.150	04/08/2025	ND	6.14	102	6.00	1.47		
Total BTX	<0.300	0.300	04/08/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	04/08/2025	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	04/08/2025	ND	217	109	200	1.39	
DRO >C10-C28*	<10.0	10.0	04/08/2025	ND	205	102	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	04/08/2025	ND					

Surrogate: 1-Chlorooctane 93.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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A handwritten signature in black ink, appearing to read "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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST																						
Project Manager: Kelly Lowery				P.O. #:																										
Address: 601 N. Marland St. STE 400				Company: OXY USA, Inc.																										
City: Midland State: TX Zip: 79701				Attn: Wade Dietrich																										
Phone #: 214-733-3165 Email: Klowery@ensolum.com				Address:																										
Project #: 03B1417142 Project Owner				City:																										
Project Name: Maris Federal #001				State: Zip:																										
Project Location: 32.061967, -103.991238				Phone #:																										
Sample Name: Kaoru Shinada, Maris Federal #001				Email:																										
FORM LAB USE ONLY																														
Lab I.D.	Sample I.D.	Sample Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX			PRESERV.	SAMPLING																					
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
Has 2037	FS5	11.5'	C 1	X	X									4/4/25	1021	X	X	X												
	SW5	0-18"	C 1	X	X									4/4/25	1157	X	X	X												
	FS18	24"	C 1	X	X									4/4/25	1408	X	X	X												
	FS51	6"	C 1	X	X									4/4/25	1431	X	X	X												
	FS65	24"	C 1	X	X									4/4/25	1406+	X	X	X												
	FS66	24"	C 1	X	X									4/4/25	1405	X	X	X												
	FS87	10'	C 1	X	X									4/4/25	1142	X	X	X												
																			4-4-2025											
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Relinquished By:	Date: 4-7-25	Time: 1440	Received By:	Steddiegney																										
Relinquished By:	Date:	Time:	Received By:																											
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 22.10 Corrected Temp. °C: 2.92	Sample Condition Cool Intact <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) SK	THERMOMETER TEST: 3-Day TKT																										
				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:																										
				All Results are emailed. Please provide Email address: Klowery@ensolum.com																										
				REMARKS: Paykey/AFF/NonAFF:																										
				Thermometer ID: #140																										
				Correction Factor: +0.3																										
				Corrected Temp. °C:																										



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

May 15, 2025

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MARIS FEDERAL #1

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

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: FS - 05 144" (H252840-01)

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	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTX	<0.300	0.300	05/14/2025	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	80.0	16.0	05/14/2025	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	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 96.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.7 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 06 0-36" (H252840-02)

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	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTEX	<0.300	0.300	05/14/2025	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	05/14/2025	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	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 94.9 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 07 0-12" (H252840-03)

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	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTX	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/14/2025	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	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.3 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 08 0-24" (H252840-04)

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	05/14/2025	ND	2.12	106	2.00	1.60	
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268	
Total BTEx	<0.300	0.300	05/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/14/2025	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	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 92.4 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 09 0-30" (H252840-05)

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	05/14/2025	ND	2.12	106	2.00	1.60		
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268		
Total BTEX	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 10 0-84" (H252840-06)

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	05/14/2025	ND	2.12	106	2.00	1.60		
Toluene*	<0.050	0.050	05/14/2025	ND	2.19	109	2.00	0.761		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.15	108	2.00	0.473		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.38	106	6.00	0.268		
Total BTEx	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	176	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 93.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 11 0-84" (H252840-07)

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	05/14/2025	ND	2.09	104	2.00	2.18	
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14	
Total BTEX	<0.300	0.300	05/14/2025	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	192	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.7 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 12 0-84" (H252840-08)

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	05/14/2025	ND	2.09	104	2.00	2.18	
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14	
Total BTX	<0.300	0.300	05/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 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	32.0	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.2 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 13 0-48" (H252840-09)

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	05/14/2025	ND	2.09	104	2.00	2.18	
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76	
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78	
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14	
Total BTEX	<0.300	0.300	05/14/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 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	32.0	16.0	05/14/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	10.2	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 92.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.7 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 14 0-120" (H252840-10)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	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	416	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 84.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 15 0-120" (H252840-11)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	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	16.0	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 16 0-120" (H252840-12)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	96.0	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 94.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 17 0-144" (H252840-13)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 92.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 18 0-144" (H252840-14)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	144	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 87.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 19 0-144" (H252840-15)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	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	80.0	16.0	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 91.4 % 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: 05/13/2025
 Reported: 05/15/2025
 Project Name: MARIS FEDERAL #1
 Project Number: 03B1417142
 Project Location: OXY 32.061967,-103.991238

Sampling Date: 05/12/2025
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: SW - 20 0-144" (H252840-16)

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	05/14/2025	ND	2.09	104	2.00	2.18		
Toluene*	<0.050	0.050	05/14/2025	ND	2.08	104	2.00	3.76		
Ethylbenzene*	<0.050	0.050	05/14/2025	ND	2.05	103	2.00	3.78		
Total Xylenes*	<0.150	0.150	05/14/2025	ND	6.39	107	6.00	5.14		
Total BTEX	<0.300	0.300	05/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 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	05/14/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/14/2025	ND	220	110	200	3.03	
DRO >C10-C28*	<10.0	10.0	05/14/2025	ND	204	102	200	4.05	
EXT DRO >C28-C36	<10.0	10.0	05/14/2025	ND					

Surrogate: 1-Chlorooctane 91.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 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



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 Lowery										P.O. #:																			
Address: 601 N. Mainfield St. STE 400										Company: OXY USA, Inc.																			
City: Midland State: TX Zip: 79701										Attn: Daniel Sparks																			
Phone #: 214-733-3165 Email: klowery@ensolum.com										Address:																			
Project #: 0381417142 Project Owner										City:																			
Project Name: Maris Federal #001										State:										Zip:									
Project Location: 32.061967, -103.991238										Phone #:																			
Sampler Name: Kaoru Shimada										Email:																			
FOR LAB USE ONLY																													
Lab I.D.										Sample I.D.										Sample Depth (in)									
H05-140										144										C									
FS-05										0-36										C									
SW-06										0-12										C									
SW-07										0-24										C									
SW-08										0-30										C									
SW-09										0-84										C									
SW-10										0-84										C									
SW-11										0-84										C									
SW-12										0-48										C									
SW-13										0-120										C									
SW-14										0-120										C									
Matrix										PRESERV.										SAMPLING									
GROUNDWATER										WASTEWATER										SOIL									
OIL										SLUDGE										OTHER : ACID/BASE:									
ICE / COOL										OTHER :										DATE									
TIME										BTEX 8021 B										TPH 8015 M									
Chloride 4500																													
Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No										Add'l Phone #:																			
All Results are emailed. Please provide Email address: klowery@ensolum.com, Daniel_Sparks@oxy.com																													
REMARKS: Paykey/AFE/NonAFE:																													
3-Day TAT																													
Thermometer ID: 4157H 140																													
Correction Factor: 0.5°C +0.3°C																													
Cool Inlet <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Bacteria (only) Sample Condition																													
Cool Inlet <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Bacteria (only) Sample Condition																													
Cool Inlet <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Bacteria (only) Sample Condition																													



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

$$z/2$$

Company Name: Ensolum, LLC										BILL TO										ANALYSIS REQUEST									
Project Manager: Kelly Lowery										P.O. #:																			
Address: 601 N. Mainfield St. STE 400										Company: OXY USA, Inc.																			
City: Midland										State: TX Zip: 79701										Attn: Daniel Sparks									
Phone #: 214-733-3165										Email: Klowery@ensolum.com										Address:									
Project #: 03B1417142										Project Owner										City:									
Project Name: Marts Federal #001										State:										Zip:									
Project Location: 32.061967, -103.991238										Phone #:																			
Sampler Name: Kaoru Shimada										Email:																			

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:							
11	SW-15	0-120	C		X								5/12/25	1116	X	X	X
12	SW-16	0-120	C		X								5/12/25	1117	X	X	X
13	SW-17	0-144	C		X								5/12/25	902	X	X	X
14	SW-18	0-144	C		X								5/12/25	903	X	X	X
15	SW-19	0-144	C		X								5/12/25	859	X	X	X
16	SW-20	0-144	C		X								5/12/25	901	X	X	X

Requisitioned By: <u>AK Shif</u> Date: <u>5/13/25</u> Time: <u>1:40</u>		Received By: <u>AD Davis</u> Date: <u>5/13/25</u> Time: <u>1:40</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No All Results are emailed. Please provide Email address: Klowery@ensolum.com, Daniel_Sparks@oxy.com		Add'l Phone #: <u>513-2840</u>	
Relinquished By: <u>AK Shif</u> Date: <u>5/13/25</u> Time: <u>1:40</u>		Received By: <u>AD Davis</u> Date: <u>5/13/25</u> Time: <u>1:40</u>		REMARKS: Paykey/AFFENomAFE: <u>3-Day TAT</u>		Thermometer ID: <u>#115 #140</u> Correction Factor: <u>-0.5°C @ 70-32</u> <u>5/13/25</u>	

THIS FORM IS NOT TO BE USED FOR:
 1. All other uses, including but not limited to:
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 102. All other uses, including but not limited to:
 103. All other uses, including but not limited to:
 104. All other uses, including but not limited



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

October 03, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: ONSUAREZ PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/30/24 13:45.

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

Received: 09/30/2024
 Reported: 10/03/2024
 Project Name: ONSUAREZ PIT
 Project Number: 03B1417142
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 09/30/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Alyssa Parras

Sample ID: ONSUAREZ PIT 0.25 (H245924-01)

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	10/01/2024	ND	2.18	109	2.00	3.01	
Toluene*	<0.050	0.050	10/01/2024	ND	2.13	107	2.00	3.38	
Ethylbenzene*	<0.050	0.050	10/01/2024	ND	2.20	110	2.00	3.62	
Total Xylenes*	<0.150	0.150	10/01/2024	ND	6.58	110	6.00	3.79	
Total BTEX	<0.300	0.300	10/01/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 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	80.0	16.0	10/01/2024	ND	432	108	400	7.14	

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	10/01/2024	ND	205	103	200	1.17	
DRO >C10-C28*	<10.0	10.0	10/01/2024	ND	183	91.5	200	3.28	
EXT DRO >C28-C36	<10.0	10.0	10/01/2024	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

From: [Kelly Lowery](#)
To: [Wells, Shelly, EMNRD](#)
Subject: Re: [EXTERNAL] Re: NAPP2402241037 MARIS FEDERAL #001
Date: Thursday, June 26, 2025 12:02:50 PM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-zsk0qnrt.png](#)
[Outlook-vb3g3zpp.png](#)
[Outlook-xy5pou1e.png](#)
[Outlook-lrshxp11.png](#)

Hi Shelly,

Yes ma'am they were. Samples FS-86, FS-88, FS-89, FS-93 through FS-96.

Thank you,



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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, June 26, 2025 12:52 PM
To: Kelly Lowery <klowery@ensolum.com>
Subject: RE: [EXTERNAL] Re: NAPP2402241037 MARIS FEDERAL #001

[**EXTERNAL EMAIL **]

Hi Kelly,

I have one more question for you...were composite confirmation floor samples collected from the surface around the wellhead? If so, which samples correlate to these areas?

I look forward to hearing your response,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, June 26, 2025 9:29 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: Re: [EXTERNAL] Re: NAPP2402241037 MARIS FEDERAL #001

Good morning, will do.

Thanks again,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC

in f 

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Thursday, June 26, 2025 10:20 AM
To: Kelly Lowery <klowery@ensolum.com>
Subject: RE: [EXTERNAL] Re: NAPP2402241037 MARIS FEDERAL #001

[**EXTERNAL EMAIL**]

Good morning Kelly,

Thank you for getting back to me. In the future, have photographs of all sections of the excavations. I will let you know if I have any further questions regarding this release.

Kind regards,

Shelly

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

From: Kelly Lowery <klowery@ensolum.com>
Sent: Thursday, June 26, 2025 8:09 AM
To: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Subject: [EXTERNAL] Re: NAPP2402241037 MARIS FEDERAL #001

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

Hi Shelly, so for the sidewalls around the well head, those would be SW-12 through SW-16 and SW-20. For the photo for the area of FS-27 through FS-30 I dug around in our field folders and it looks like the only photo that was collected on 3/20/25 in this area when those samples were collected was on the spotting locations for the Pioneer ROW to the north of FS-30 and not of the excavation itself. I even looked through photos collected 4/4/25 and 5/12/25 and unfortunately it looks like our field staff did not collect any.

Please let me know if there is anything else.

Thank you,



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

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, June 25, 2025 2:14 PM
To: Kelly Lowery <klowery@ensolum.com>
Subject: NAPP2402241037 MARIS FEDERAL #001

[**EXTERNAL EMAIL**]

Hi Kelly,

I am reviewing the remediation closure report submitted for the following release NAPP2402241037 MARIS FEDERAL #001 and have a few questions for you. Because the photos don't tell me what areas of the excavation I am looking at, can you supply me with a photo of the over excavation that occurred at FS27-30? Also, there is a buffer around the wellhead even though this is not shown on the Figure 3. Were sidewall samples collected around the sides of the wellhead? If so, what sidewall samples

correspond to these? I look forward to hearing your answers when you have the time.

Sincerely

Shelly Wells * Environmental Specialist-Advanced
Environmental Bureau
EMNRD-Oil Conservation Division
1220 S. St. Francis Drive|Santa Fe, NM 87505
(505)469-7520 Shelly.Wells@emnrd.nm.gov
<http://www.emnrd.state.nm.us/OCD/>

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 477263

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2402241037
Incident Name	NAPP2402241037 MARIS FEDERAL #001 @ 30-015-27011
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-27011] MARIS FEDERAL #001

Location of Release Source

Please answer all the questions in this group.

Site Name	MARIS FEDERAL #001
Date Release Discovered	01/21/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.

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

Nature and Volume of Release

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

Crude Oil Released (bbls) Details	Cause: Other Producing Well Crude Oil Released: 10 BBL Recovered: 6 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Not answered.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	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)	produced oil release from the stuffing box.

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

General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/25/2024
--	--

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 3

Action 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between ½ and 1 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 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 100 and 200 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1000 (ft.) and ½ (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride (EPA 300.0 or SM4500 Cl B)	1720
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	11306
GRO+DRO (EPA SW-846 Method 8015M)	9486
BTEX (EPA SW-846 Method 8021B or 8260B)	20.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0

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

On what estimated date will the remediation commence	01/21/2024
On what date will (or did) the final sampling or liner inspection occur	05/12/2025
On what date will (or was) the remediation complete(d)	05/12/2025
What is the estimated surface area (in square feet) that will be reclaimed	21687
What is the estimated volume (in cubic yards) that will be reclaimed	1134
What is the estimated surface area (in square feet) that will be remediated	21687
What is the estimated volume (in cubic yards) that will be remediated	1134

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

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

Sante Fe Main Office
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General Information
Phone: (505) 629-6116

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

QUESTIONS, Page 4

Action 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 06/20/2025
<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 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	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 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	477263
Action Type:	
[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	460027
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/14/2025
What was the (estimated) number of samples that were to be gathered	16
What was the sampling surface area in square feet	3200

Remediation Closure Request

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	21687
What was the total volume (cubic yards) remediated	1134
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	21687
What was the total volume (in cubic yards) reclaimed	1134
Summarize any additional remediation activities not included by answers (above)	N/A

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Daniel Sparks Title: Environmental Analyst III Email: daniel_sparks@oxy.com Date: 06/20/2025
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QUESTIONS, Page 7

Action 477263

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	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 477263

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 477263
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scwells	None	6/26/2025