



CLOSURE REPORT

Property:

NIMITZ MDP1 13 1 Federal Com #311H

**Unit D, S24, T24S, R30E
32.209823° N, 103.838935° W
Eddy County, New Mexico
NMOCD Incident ID: nAPP2400330251**

June 20, 2024

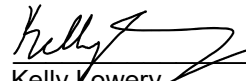
Ensolum Project No. 03B1417138

Prepared for:


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

Attn: Wade Dittrich

Prepared by:



Kelly Lowery
Project Geologist



Beaux Jennings
Associate Principal



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Eddy County, New Mexico
NMOCD Incident ID: nAPP2400330251**

Ensolum Project No. 03B1417138

1.0 INTRODUCTION

1.1 Site Description & Background

Operator:	OXY USA, Inc. (Oxy)
Site Name:	NIMITZ MDP1 13 1 Federal Com #311H
Location*:	Unit D, Section 24, Township 24 South, Range 30 East 32.209823° N, 103.838935° 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)

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

On December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 barrels (bbls) of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered. Oxy reported the release to the New Mexico EMNRD OCD online portal NOR form on January 3, 2024. The release was assigned Incident Number nAPP2400330251.

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

1.2 Project Objective

The primary objective of the closure activities was to reduce chemicals of concern (COC) concentrations in the on-Site soil to be in compliance with the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by 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**, and included as **Figure 4** in **Appendix A**.

- No exploratory water wells were identified within a 0.5-mile radius of the Site on the OSE Water Rights Reporting System (WRRS) database. However, there is one well record reported within 0.62-miles of the Site (C-04575-POD1) that was installed in 2022 to a depth of 105 feet below ground surface (bgs) as a temporary well, with no groundwater encountered.
 - On January 22, 2024, Ensolum, on behalf of Oxy, requested a depth to water (DTW) Closure Criteria Variance Request to utilize the OSE WRRS well C-04575-POD1. Due to the regional depth to groundwater being greater than 100 feet bgs and the Site being in a low karst potential area, the Closure Criteria Variance Request to reflect groundwater >100 feet as shown in Table 1 of 19.15.29.12 NMAC for any off-pad remediation of soils greater than 4 feet bgs was granted by the New Mexico EMNRD OCD on January 23, 2024.
- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or significant watercourse.
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from a permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statute Annotated (NMSA) 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's 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 not located within an unstable area, also referred to as high 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 Less Than 4 ft bgs Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤ 50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg

	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 bbls of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered.

On March 1, 2024, Ensolum arrived on-Site to collect 64 composite soil samples from the excavation floor (FS-1 through FS-64) and six composite soil samples from the excavation sidewalls (SW-1 through SW-6). Additionally, Ensolum collected 10 delineation soil samples (DS-1 through DS-10) from locations outside the perimeter of the excavation. The excavation floor samples were collected at a depth of 1.5 feet bgs, the excavation sidewall samples were collected at a depth of 0-1.5 feet bgs, and the delineation samples were collected at a depth of 0.25 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On April 5, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 32 composite soil re-samples from the excavation floor (FS-2, FS-13, FS-15, FS-16, FS-18, FS-19, FS-24 through FS-32, FS-34 through FS-43, FS-47 through FS-52, and FS-54) at depths ranging from 2 to 3 feet bgs. In addition, Ensolum collected two delineation soil samples (DS-7 and DS-10) from locations outside the perimeter of the excavation, at a depth of 0.5 feet bgs. Based on laboratory analytical data, additional excavation and/or remediation was necessary.

On May 9 and 10, 2024, subsequent to completion of additional excavation activities, Ensolum arrived on-Site to collect 23 composite soil re-samples from the excavation floor (FS-13, FS-18, FS-19, FS-24 through FS-29, FS-34 through FS-42, FS-47, FS-50, FS-51, FS-52, and FS-54) at depths ranging from 4 to 6 feet bgs, and seven composite soil samples from the excavation sidewalls (SW-7 through SW-13) at depths of 0-4 feet bgs. Based on laboratory analytical data, no additional excavation activities or remediation activities were necessary.

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

The final excavation area measured approximately 289 feet long and 113 feet wide at the maximum extents, with a depth ranging from 1.5 - 6 feet bgs.

The excavation measured approximately 25,752 square feet in areal extent. A total of 2,643 cubic yards (cy) of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing. Backfill of excavation was completed utilizing material purchased locally and recontoured to match pre-existing conditions. A BLM-approved seed mixture was sown into the surface area of the backfill for re-vegetation.

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 1, 2024 through May 10, 2024 included the collection of a total of 119 composite soil samples from 64 locations from the excavation floor (FS-1 through FS-64), 13 composite soil samples from 13 locations from the excavation sidewalls (SW-1 through SW-13), and 12 delineation soil samples from 10 locations outside of the release area and the pipeline repair over excavation extent (DS-1 through DS-10) for laboratory analysis.

The 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 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** 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 or laboratory sample detection limits (SDLs) associated with the final composite excavation soil samples (FS-1 through FS-64 and SW-1 through SW-13) and the final delineation soil samples (DS-1 through DS-10) for soils left in place at the Site to the NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the final composite soil samples collected from the excavation area and the final delineation samples do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicated that total BTEX concentrations for the final composite soil samples collected from the excavation area and the final delineation samples do not exceed the laboratory SDLs, which are below the NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicated combined TPH-GRO/DRO/MRO concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg.
- Laboratory analytical results indicated chloride concentrations for the final composite soil samples collected from the excavation area and the final delineation soil samples do not exceed the applicable NMOCD Closure Criteria of 600 mg/kg.

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

7.0 RECLAMATION AND RE-VEGETATION

The release occurred off pad and as such, a reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off pad area that was impacted by the release per 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation. The following Reclamation Plan addresses reclamation of the off-pad area: Soil in the vicinity of the release include: predominately gravelly fine sandy loam;

- The backfilled areas were seeded utilizing a weed-free seed mix designed by the BLM to meet reclamation standards for this region, which was: Pecos District BLM Seed Mix for Shallow Sand and Sandy, SD-3 Ecological Site;

- The seed mixture was 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 was 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 was more applicable;
- Erosion control management will potentially include:
 - The placement of wattles 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 utilized locally purchased material and recontoured to pre-existing conditions;
- Seeding was completed during the month of June 2024, during the month(s) when temperatures and precipitation is/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 December 31, 2023, Oxy had a release of crude oil and produced water at the Site due to a flow line rupture. The flow line was isolated, depressurized, locked, and tagged out. Approximately 50 bbls of crude oil and 10 bbls of produced water released onto the ground surface, with approximately 20 bbls of crude oil and 5 bbls of produced water recovered.
- Ensolum's soil sampling program from March 1, 2024 through May 10, 2024 included the collection of a total of 119 composite soil samples from 64 soil sample locations from the excavation floor (FS-1 through FS-64), 13 sidewall soil samples from 13 soil sample locations (SW-1 through SW-13), and 12 delineation soil samples from 10 locations outside of the excavation area (DS-1 through DS-10) for laboratory analysis. The composite floor samples were collected at depths ranging from 1.5 to 6 feet bgs and the sidewall samples were collected at a depths ranging from 0-4 feet bgs. Additionally, the delineation samples were collected outside of the excavation area at a depths ranging from 0.25 to 0.5 feet bgs.
- The primary objective of the closure activities was to reduce COC concentrations in the on-Site soil to be in compliance with applicable NMOCD Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 113 feet wide and 289 feet long at the maximum extents, with depths ranging from 1.5 to 6 feet bgs.
- Based on laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls, and the final delineation samples outside of the impacted area did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria.
- Once the areas were brought back to original grade, a BLM-approved seed mixture was sown into the surface of the backfill for re-vegetation per the above stated 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.

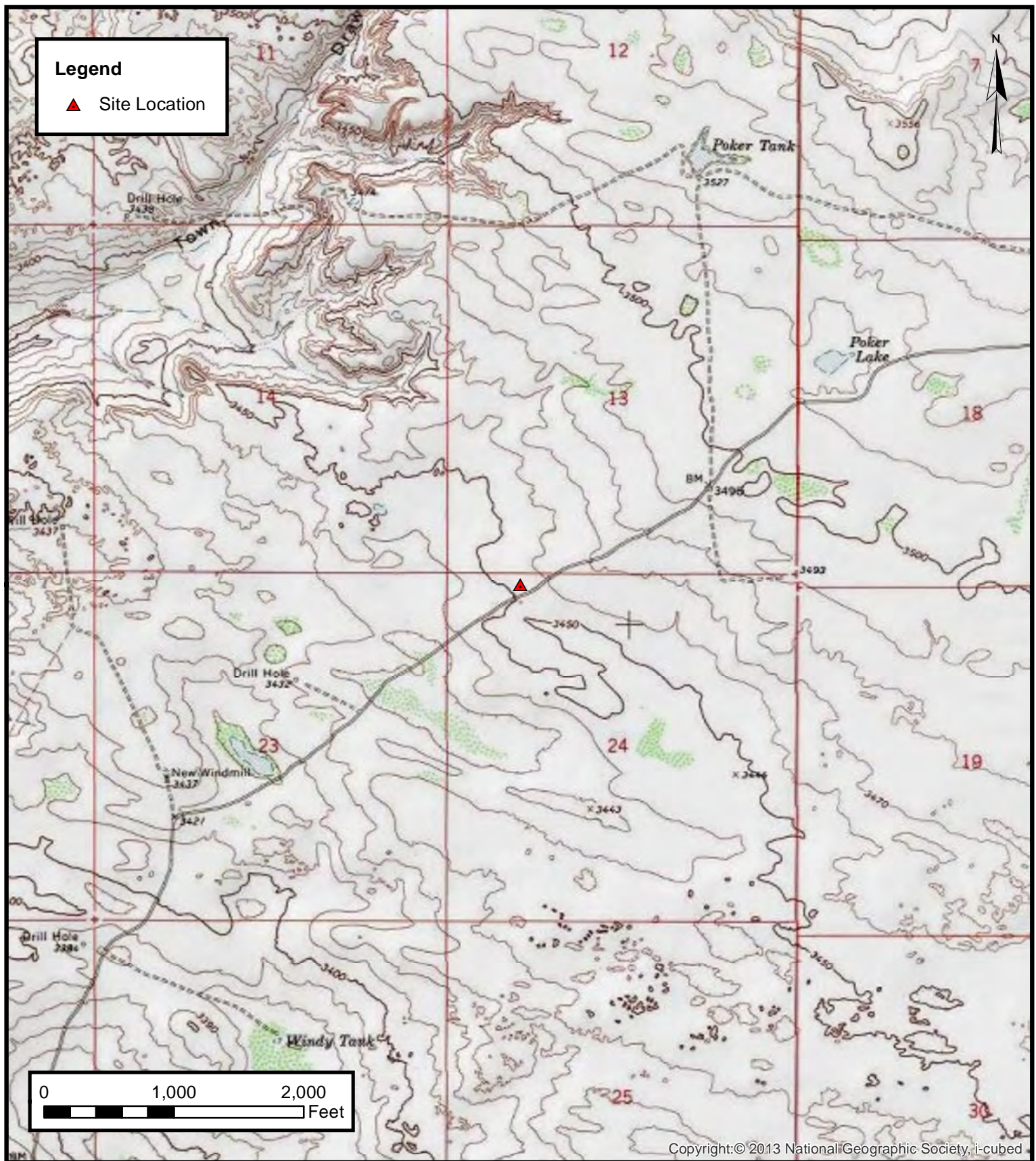
9.3 Reliance

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) is prohibited without the express written authorization 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.
NIMITZ MDP1 13 1 Federal Com. #311H
32.209823° N, 103.838935° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

FIGURE
1

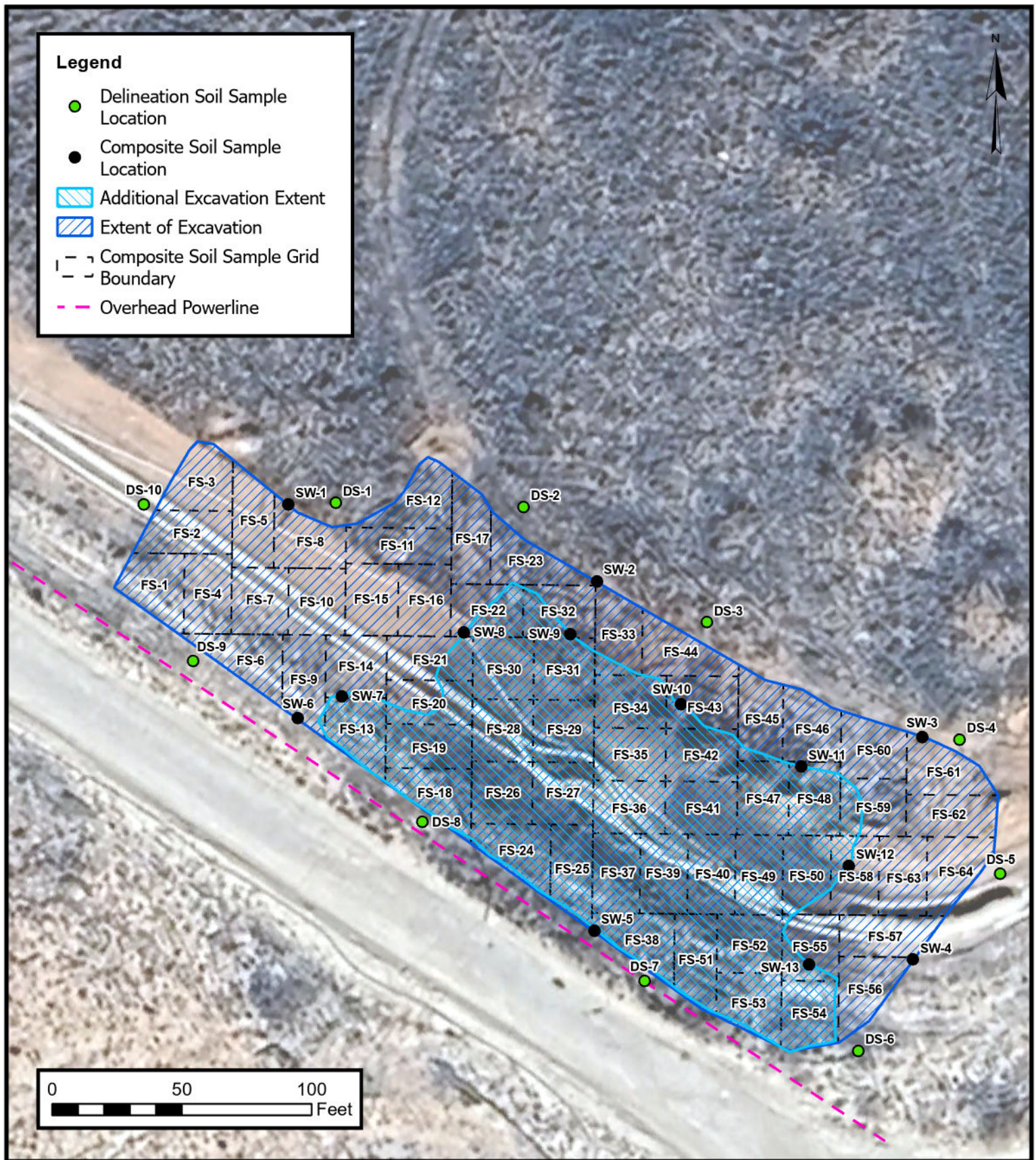


Site Vicinity Map

Oxy USA Inc.
NIMITZ MDP1 13 1 Federal Com. #311H
32.209823° N, 103.838935° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

FIGURE
2

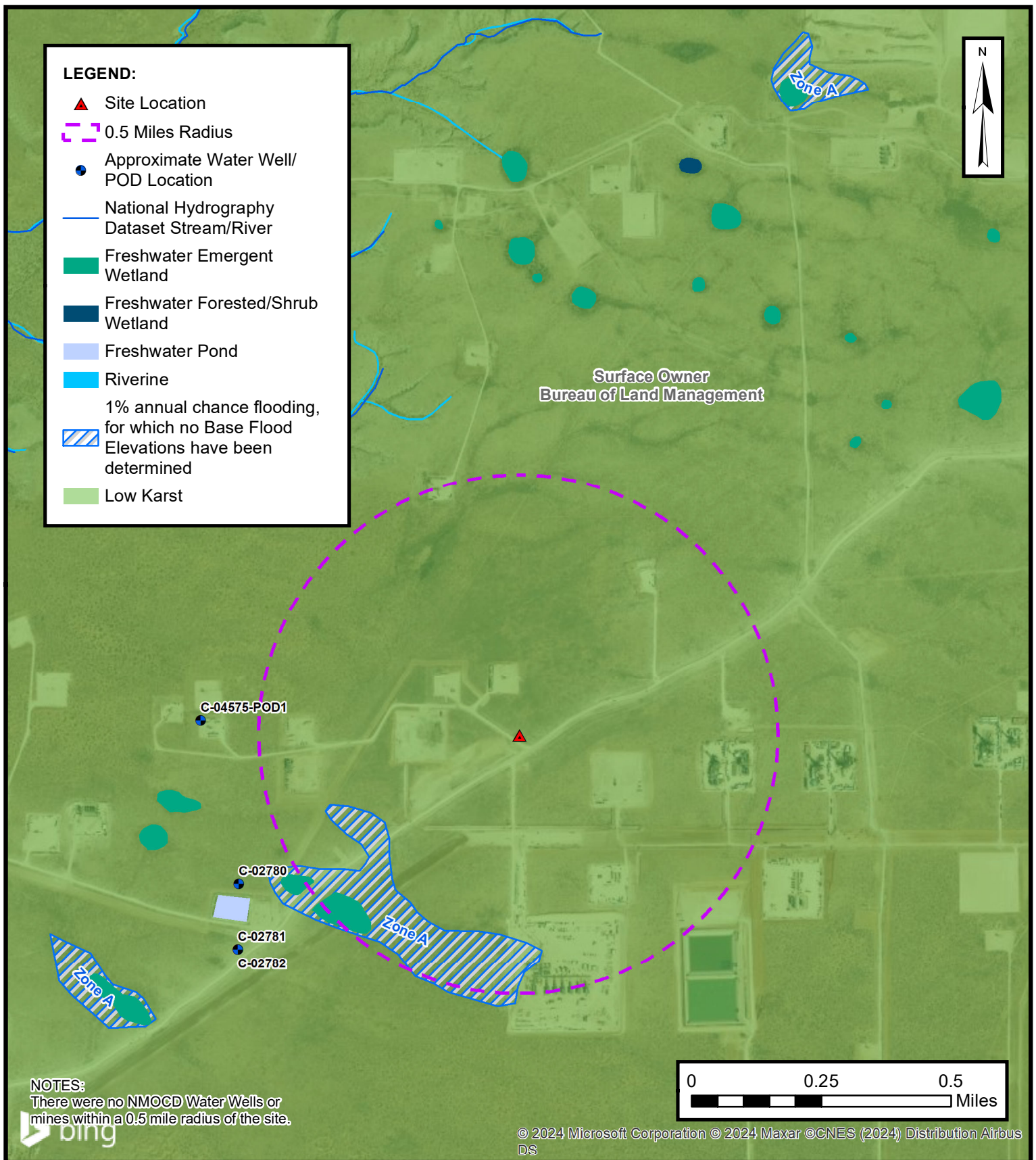


Site Map

Oxy USA Inc.
NIMITZ MDP1 13 1 Federal Com. #311H
32.209823° N, 103.838935° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

FIGURE
3



Closure Criteria Map

Oxy USA Inc.
NIMITZ MDP1 13 1 Federal Com. #311H
32.209823° N, 103.838935° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417138

FIGURE
4



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Dittrich, John W <Wade_Dittrich@oxy.com>
Sent: Sunday, December 31, 2023 9:58 PM
To: OCD.Enviro@emnrd.nm.gov; BLM_NM_CFO_Spill@blm.gov
Cc: Beaux Jennings; Pierce, Tyson (The Bergaila Company)
Subject: Initial Notification-Nimitz MDPI 13 1 Fed. Com 311H

[**EXTERNAL EMAIL**]

All,

This is to inform you that Oxy Permian had a **Reportable** release in **Eddy County** at the **Nimitz MDPI 13 1 Fed. Com 311H** on 12/31/2023.

- **Release Location:** Legal -13-24S-30E-
- **Release Volume:** 50 bbls of Oil and 10 bbls of Produced Water.
- **Recovered:** 20 bbls of Oil recovered and 5 bbls of PW recovered
- **Cause of Release:** Flow Line rupture
- **Approximate Area impacted by release:** TBD-**Leak is off location** (measurements are subject to change with GPS tracking)
- **GPS Coordinates of Leak and Driving Directions:** **32.22412370, -103.81259865**- Int. of Hwy 128 and Twin Wells Rd., go South on TWR for 5.2 miles, turn Right and go 450ft to leak on Right side of road.
- Please let me know if you have any questions.

Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Tuesday, January 23, 2024 8:50 AM
To: Kelly Lowery
Cc: Bratcher, Michael, EMNRD; Beaux Jennings; Dittrich, John W; Pierce, Tyson (Legacy Safety & Consulting LLC)
Subject: RE: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

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[**EXTERNAL EMAIL**]

Kelly,

The Variance Request for depth to groundwater of >100' 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: Monday, January 22, 2024 10:06 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, January 22, 2024 9:07 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Beaux Jennings <bjennings@ensolum.com>; Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>
Subject: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251) - Closure Criteria Variance Request

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 Closure Criteria Variance for the NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910) and for the NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251), which are roughly 0.15 miles apart from each other.

NIMITZ MDP1 13 1 Federal Com. #171H (Incident ID: nAPP2336151910)

- A flow line rupture resulted in the release of 12 barrels of oil and 41 barrels of produced water. Oxy immediately recovered 3 barrels of oil and recovered 10 barrels of produced water. The Site will be vertically and laterally delineated per NMAC 19.15.29.

NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

- A flow line rupture resulted in the release of 50 barrels of oil and 10 barrels of produced water. Oxy immediately recovered 20 barrels of oil and recovered 5 barrels of produced water. The Site will be vertically and laterally delineated per NMAC 19.15.29.

Attached is groundwater research from the area surrounding the release. All nearby USGS and NMOSE wells indicate depth to groundwater greater than 100 feet bgs. The nearest borehole with depth to groundwater data is located 0.62 miles west of each release area and has a recorded total depth of the well at 105 feet bgs with no groundwater encountered from January 2022.

Due to the regional depth to groundwater being greater than 100 feet bgs and the site being in low potential karst area, Ensolum requests a Closure Criteria Variance to reflect groundwater > 100 feet as shown in Table 1 of 19.15.29.12 NMAC 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



Kelly Lowery

From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Friday, February 16, 2024 3:23 PM
To: Kelly Lowery
Cc: Beaux Jennings; Wade_Dittrich@oxy.com; Tyson_Pierce@oxy.com; Bratcher, Michael, EMNRD; Wells, Shelly, EMNRD; Velez, Nelson, EMNRD
Subject: Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

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[**EXTERNAL EMAIL**]

Kelly,

The largest variance confirmation floor sample size that the OCD can currently grant is 400 ft². The variance is approved for 400 ft² floor confirmation samples. The release area will still need confirmation sidewall samples representing no more than 200 ft². 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: Friday, February 16, 2024 1:21 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, February 16, 2024 12:30 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Beaux Jennings <bjennings@ensolum.com>; Dittrich, John W <Wade_Dittrich@oxy.com>; Pierce, Tyson (Legacy Safety & Consulting LLC) <tyson_pierce@oxy.com>
Subject: [EXTERNAL] Sampling Variance Request for NIMITZ MDP1 13 1 Federal Com. #311H (Incident ID: nAPP2400330251)

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On behalf of Oxy USA, Inc. (Oxy), Ensolum, LLC (Ensolum) requests a variance from the 200 square feet sampling requirement cited in 19.15.29.12 (D)(1)(c). Ensolum requests an alternate of 800 square feet, five-point composite samples collected from the Site. The current excavation extent is approximately 26,236 square feet, which would roughly equal 131 composite samples collected per the 200 square feet sampling requirement. If approved, the 800 square foot variance would decrease the number of samples collected to approximately 33 samples.

Attached is a Site Map depicting the site characterizations for the surrounding area. Previous correspondence and approval from the OCD are attached for the prior variance request regarding a DTW well located approximately 0.62 miles west of the Site documenting the regional depth to groundwater being greater than 100 feet bgs and the site being in low potential karst area.

With the provided information, Ensolum kindly asks that the OCD will acknowledge acceptance of this variance request. If you have any questions, please call or email.

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, March 22, 2024 3:27 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: NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

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[**EXTERNAL EMAIL**]

RE: Incident #NAPP2400330251

Kelly,

Your request for a 90-day extension to **June 20th, 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: Friday, March 22, 2024 1:49 PM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>
Subject: FW: [EXTERNAL] NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

From: Kelly Lowery <klowery@ensolum.com>
Sent: Friday, March 22, 2024 1:35 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] NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251)

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 NIMITZ MDP1 13 1 Federal Com. #311H (nAPP2400330251). Excavation activities are currently being conducted at the Site and require more time due to multiple aboveground flowlines within the vicinity of the release hindering the use of mechanical equipment for digging purposes. 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





New Mexico Office of the State Engineer **Water Right Summary**



WR File Number: C 04575

Subbasin: CUB

Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Agent: XTO ENERGY INC

Contact: ADRIAN BAKER

User: WSP USA

Contact: KALEI JENNINGS

Documents on File

			Status			From/			
Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
 get images	709414	EXPL 2021-10-06	PMT	LOG	C 04575 POD1	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)											
POD Number	Well Tag	Source	Q						X	Y	Other Location Desc
			64Q	16Q	4Q	Sec	Tws	Rng			
C 04575 POD1	NA		1	1	2	23	24S	30E	608412	3564355	BH01

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

5/30/24 5:21 PM

WATER RIGHT SUMMARY



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

OSE OIT JAN 24 2022 PM 3:00

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1 (BH-01)		WELL TAG ID NO. n/a		OSE FILE NO(S). C-4575			
	WELL OWNER NAME(S) XTO Energy (Kyle Littrell)				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 6401 Holiday Hill Dr.				CITY Midland	STATE TX	ZIP 79707	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 12	SECONDS 38.03 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	50	58.70 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE NW NE Sec. 23 T24S R30E, NMPM								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1249		NAME OF LICENSED DRILLER Jackie D. Atkins			NAME OF WELL DRILLING COMPANY Atkins Engineering Associates, Inc.		
	DRILLING STARTED 1-4-2022		DRILLING ENDED 1-4-2022		DEPTH OF COMPLETED WELL (FT) temporary well material	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) n/a	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) n/a		
	DRILLING FLUID: <input type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input checked="" type="checkbox"/> OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	105	±8.5	Boring- HSA	--	--	--	--
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO. C-4575	POD NO. 1	TRN NO. 709414
LOCATION 2-1-1 24S-30E-23	WELL TAG ID NO. —	PAGE 1 OF 2

MON

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)	
	FROM	TO					
4. HYDROGEOLOGIC LOG OF WELL	0	1	1	Caliche, White, Dry	Y ✓ N		
	1	20	19	Sand, very fine grained, well graded, with caliche, Reddish Brown-Light Brown	Y N		
	20	30	20	Caliche, consolidated with silt and some gravel, Off-White, Dry	Y ✓ N		
	30	50	20	Sand, very fine grained, well graded, with gravel, Light Brown	Y ✓ N		
	50	75	25	Sand, very fine grained, well graded, with gravel, Reddish Brown, slight moist	Y ✓ N		
	75	105	30	Sand, very fine grained, poorly graded, Reddish Brown, slight moist	Y ✓ N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
					Y N		
	METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm):	0.00
	5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
MISCELLANEOUS INFORMATION: Temporary well materials removed and the soil boring backfilled using drill cuttings from total depth to ten feet below ground surface, then hydrated bentonite chips from ten feet below ground surface to surface. Logs adapted from WSP on-site geologist.							
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Shane Eldridge, Cameron Pruitt, Carmelo Trevino							
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="display: flex; justify-content: space-between;"> <i>Jackie Atkins</i> Jackie D. Atkins 1/21/2022 </div> <hr/> <div style="display: flex; justify-content: space-between;"> SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE </div>						

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 06/30/2017)	
FILE NO.	C-4573	POD NO.	1
LOCATION	7-1-1 245-30F-23	TRN NO.	709414
		WELL TAG ID NO.	
			PAGE 2 OF 2

OSE_Well Record and Log_-forsign

Final Audit Report

2022-01-22

Created:	2022-01-21
By:	Lucas Middleton (lucas@atkinseng.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAHFW29aZiQH1D931B0LxyAz3o1wYi88ri

"OSE_Well Record and Log_-forsign" History

 Document created by Lucas Middleton (lucas@atkinseng.com)

2022-01-21 - 10:47:34 PM GMT- IP address: 69.21.248.123

OSE DIT JAN 24 2022 PM3:00

 Document emailed to Jack Atkins (jack@atkinseng.com) for signature

2022-01-21 - 10:48:19 PM GMT

 Email viewed by Jack Atkins (jack@atkinseng.com)

2022-01-21 - 10:49:13 PM GMT- IP address: 64.90.153.232

 Document e-signed by Jack Atkins (jack@atkinseng.com)

Signature Date: 2022-01-22 - 0:16:23 AM GMT - Time Source: server- IP address: 64.90.153.232

 Agreement completed.

2022-01-22 - 0:16:23 AM GMT

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: NIMITZ MDP1 13 1 Federal Com. #311H
Entity: Oxy USA, Inc



Impacted soil in release footprint, facing west (01/03/2024).



Impacted soil in release footprint, facing east (01/03/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H
Entity: Oxy USA, Inc



Excavated release area during remediation activities, facing northeast
(05/10/2024).



Excavated release area during remediation activities, facing northwest
(05/10/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H
Entity: Oxy USA, Inc

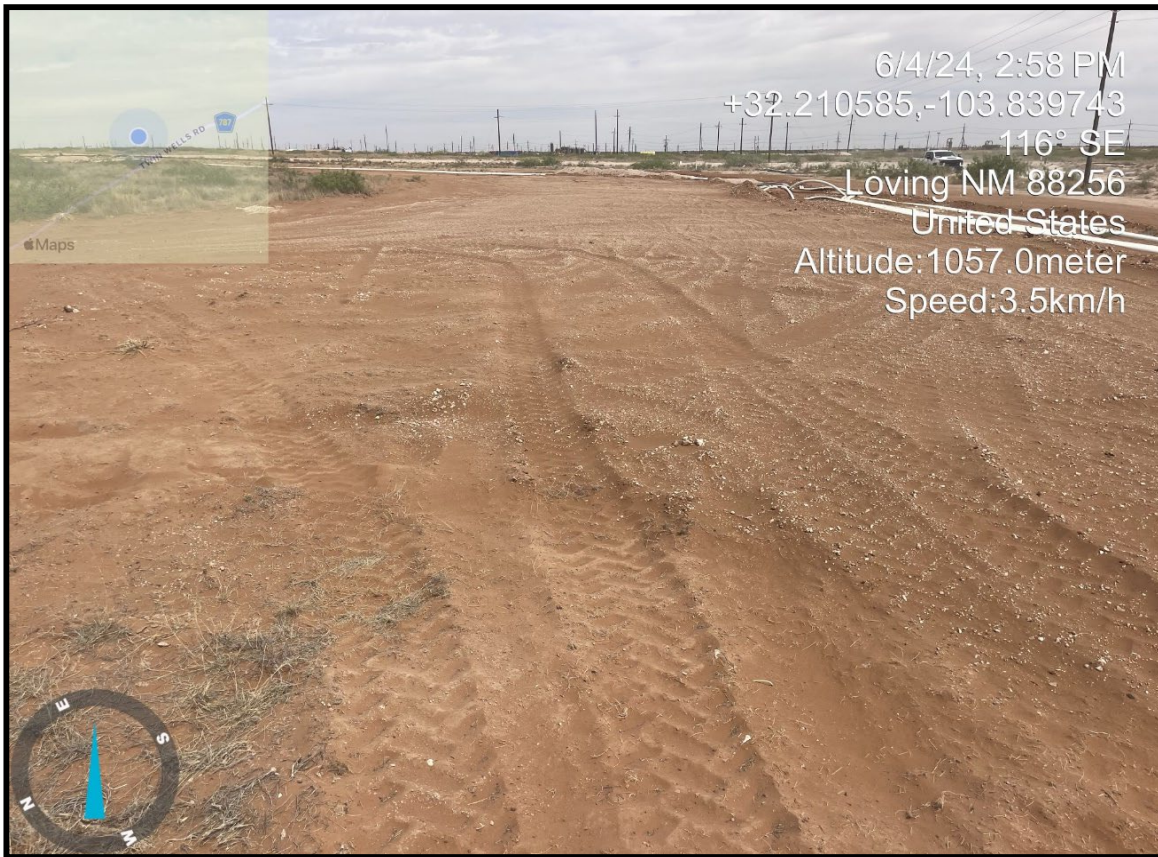


Excavated release area during remediation activities, facing southeast
(05/10/2024).



Excavated release area during remediation activities, facing southeast
(05/10/2024).

Project: NIMITZ MDP1 13 1 Federal Com. #311H
Entity: Oxy USA, Inc



Post backfill and reseeding activities, facing southeast (06/04/2024).



Post backfill and reseeding activities, facing southeast (06/04/2024).



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NIMITZ MDP1 13 1 Federal Com. #311H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Soil Sample Analytical Results												
FS-1	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.6	<10.0	12.6	48.0
FS-2	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	118	26.2	144	64.0
	04/05/2024	2	NS					<10.0	40.6	<10.0	40.6	NS
FS-3	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-4	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-5	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-6	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-7	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.0	<10.0	44.0	32.0
FS-8	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-9	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	96.0
FS-10	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS-11	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.6	<10.0	49.6	336
FS-12	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
FS-13	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.2	<10.0	23.2	1,010
	04/05/2024	2	NS					NS				5,920
	05/09/2024	4	NS					NS				176
FS-14	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.4	<10.0	44.4	112
FS-15	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	119	10.7	130	1,120
	04/05/2024	3	NS					<10.0	<10.0	<10.0	<10.0	176
FS-16	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.8	<10.0	66.8	656
	04/05/2024	3	NS					NS				272
FS-17	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.4	<10.0	19.4	544
FS-18	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	16.7	<10.0	16.7	4,600
	04/05/2024	3	NS					NS				832
	05/09/2024	4	NS					NS				48.0
FS-19	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	39.7	10.4	50.1	6,400
	04/05/2024	3	NS					NS				3,520
	05/09/2024	4	NS					NS				176
FS-20	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	49.7	<10.0	49.7	592
FS-21	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	25.8	<10.0	25.8	576
FS-22	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.5	<10.0	23.5	560
FS-23	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.0	<10.0	22.0	512
FS-24	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.9	<10.0	19.9	8,660
	04/05/2024	3	NS					NS				3,200
	05/09/2024	4	NS					NS				160

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NIMITZ MDP1 13 1 Federal Com. #311H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
FS-25	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	48.4	10.0	58.4	7,920
	04/05/2024	3	NS					NS			3,600	
	05/09/2024	4	NS					NS			592	
FS-26	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	61.1	12.0	73.1	6,880
	04/05/2024	3	NS					NS			3,320	
	05/09/2024	4	NS					NS			192	
FS-27	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	66.5	11.3	77.8	5,200
	04/05/2024	3	NS					NS			1,580	
	05/09/2024	4	NS					NS			192	
FS-28	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	42.7	<10.0	42.7	1,460
	04/05/2024	3	NS					NS			704	
	05/09/2024	4	NS					NS			48.0	
FS-29	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,470
	04/05/2024	3	NS					<10.0	18.1	<10.0	18.1	736
	05/09/2024	4	NS					NS			16.0	
FS-30	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	111	17.8	129	992
	04/05/2024	3	NS					<10.0	26.2	<10.0	26.2	272
FS-31	03/01/2024	1.5	<0.050	<0.050	<0.050	0.229	<0.300	31.5	2,250	386	2,668	5,840
	04/05/2024	3	NS					<10.0	16.6	<10.0	16.6	288
FS-32	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	17.5	80.3	1,220
	04/05/2024	3	NS					NS			176	
FS-33	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
FS-34	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	445	82.9	528	4,240
	04/05/2024	2	NS					<10.0	32.1	<10.0	32.1	928
	05/09/2024	4	NS					NS			144	
FS-35	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	3,520
	04/05/2024	3	NS					NS			3,520	
	05/09/2024	4	NS					NS			80.0	
FS-36	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	134	29.5	164	4,000
	04/05/2024	3	NS					<10.0	46.3	14.9	61.2	4,160
	05/09/2024	5	NS					NS			112	
FS-37	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	239	47.4	286	3,760
	04/05/2024	3	NS					<10.0	68.7	22.8	91.5	5,760
	05/09/2024	5	NS					NS			96.0	
FS-38	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7,440
	04/05/2024	2	NS					NS			736	
	05/09/2024	5	NS					NS			48.0	

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 NIMITZ MDP1 13 1 Federal Com. #311H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
FS-39	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,640
	04/05/2024	3	NS					NS				1,250
	05/09/2024	5	NS					NS				176
FS-40	03/01/2024	1.5	<0.050	0.067	<0.050	0.907	0.974	61.8	5,600	1,170	6,832	5,680
	04/05/2024	3	NS					<10.0	<10.0	<10.0	<10.0	992
	05/09/2024	6	NS					NS				112
FS-41	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	720
	04/05/2024	3	NS					NS				1,600
	05/09/2024	6	NS					NS				96.0
FS-42	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	106	28.3	137	1,300
	04/05/2024	3	NS					<10.0	21.1	<10.0	21.1	3,440
	05/09/2024	4	NS					NS				80.0
FS-43	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	60.7	11.3	72.0	3,440
	04/05/2024	2	NS					NS				320
FS-44	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-45	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.5	<10.0	56.5	448
FS-46	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.4	<10.0	11.4	256
FS-47	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,240
	04/05/2024	3	NS					NS				5,280
	05/09/2024	4	NS					NS				48.0
FS-48	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	23.7	<10.0	23.7	2,600
	04/05/2024	3	NS					NS				112
FS-49	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	12.4	75.2	1,840
	04/05/2024	3	NS					NS				256
FS-50	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,300
	04/05/2024	3	NS					NS				4,000
	05/09/2024	6	NS					NS				80.0
FS-51	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800
	04/05/2024	3	NS					NS				1,840
	05/09/2024	6	NS					NS				80.0
FS-52	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	180	44.4	224	6,160
	04/05/2024	3	NS					<10.0	25.2	<10.0	25.2	1,920
	05/09/2024	6	NS					NS				64.0
FS-53	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
FS-54	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
	04/05/2024	2	NS					NS				2,960
	05/09/2024	4	NS					NS				80.0

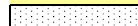
TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NIMITZ MDP1 13 1 Federal Com. #311H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
FS-55	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-56	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
FS-57	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-58	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	400
FS-59	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
FS-60	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-61	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
FS-62	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-63	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
FS-64	03/01/2024	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 NIMITZ MDP1 13 1 Federal Com. #311H
 Oxy USA, Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417138

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Sidewall Soil Sample Analytical Results												
SW-1	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-2	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-3	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-4	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SW-5	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-6	03/01/2024	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-7	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	176
SW-8	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SW-9	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	160
SW-10	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
SW-11	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	22.1	<10.0	22.1	304
SW-12	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	192
SW-13	05/10/2024	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
Delineation Soil Sample Analytical Results												
DS-1	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
DS-2	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
DS-3	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS-4	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS-5	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
DS-6	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
DS-7	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,070
	04/05/2024	0.50	NS					NS				160
DS-8	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
DS-9	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
DS-10	03/01/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	319	41.0	360	112
	04/05/2024	0.50	NS					<10.0	<10.0	<10.0	<10.0	NS

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

 Additional Excavation and/or Re-Sample

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

March 07, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NIMITZ MDP 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 03/01/24 15:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 1 1.5' (H241048-01)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTX	<0.300	0.300	03/05/2024	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	48.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	12.6	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 98.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 2 1.5' (H241048-02)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	64.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	118	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	26.2	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 1.5' (H241048-03)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	32.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 4 1.5' (H241048-04)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	48.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 5 1.5' (H241048-05)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEx	<0.300	0.300	03/05/2024	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	48.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.1 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 6 1.5' (H241048-06)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	48.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.9 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 7 1.5' (H241048-07)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	44.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 90.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.6 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 8 1.5' (H241048-08)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	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	80.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.2 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 9 1.5' (H241048-09)

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	03/05/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/05/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/05/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.9 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 10 1.5' (H241048-10)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	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	64.0	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.2 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 11 1.5' (H241048-11)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	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	336	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	49.6	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 12 1.5' (H241048-12)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 13 1.5' (H241048-13)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	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	1010	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	23.2	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 96.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 14 1.5' (H241048-14)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	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	112	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	44.4	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 15 1.5' (H241048-15)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1120	16.0	03/06/2024	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	03/05/2024	ND	237	119	200	13.5	
DRO >C10-C28*	119	10.0	03/05/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	10.7	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.2 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 16 1.5' (H241048-16)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	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	656	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
DRO >C10-C28*	66.8	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 67.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.6 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 17 1.5' (H241048-17)

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	03/06/2024	ND	2.19	110	2.00	11.8		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	14.7		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	15.3		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.98	99.7	6.00	15.9		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
DRO >C10-C28*	19.4	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 18 1.5' (H241048-18)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	4600	16.0	03/06/2024	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	03/06/2024	ND	237	119	200	13.5	
DRO >C10-C28*	16.7	10.0	03/06/2024	ND	223	111	200	11.8	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 19 1.5' (H241048-19)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	6400	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	39.7	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	10.4	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 78.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 20 1.5' (H241048-20)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	49.7	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 69.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.6 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 21 1.5' (H241048-21)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	576	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	25.8	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 22 1.5' (H241048-22)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	560	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	23.5	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 54.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 53.4 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 23 1.5' (H241048-23)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	512	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	22.0	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 67.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 24 1.5' (H241048-24)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	8660	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	19.9	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 77.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 25 1.5' (H241048-25)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	7920	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	48.4	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 74.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 26 1.5' (H241048-26)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	6880	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	61.1	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	12.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 79.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 27 1.5' (H241048-27)

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	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	5200	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	66.5	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	11.3	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 69.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.1 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 28 1.5' (H241048-28)

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	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	1460	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	42.7	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 71.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.8 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 29 1.5' (H241048-29)

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 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	1470	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 67.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 66.9 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 30 1.5' (H241048-30)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	992	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	111	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	17.8	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.5 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 31 1.5' (H241048-31)

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	03/06/2024	ND	2.00	100	2.00	9.57	
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42	
Total Xylenes*	0.229	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	5840	16.0	03/06/2024	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*	31.5	10.0	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	2250	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	386	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 77.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.4 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 32 1.5' (H241048-32)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEx	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1220	16.0	03/06/2024	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	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	62.8	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	17.5	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 51.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 33 1.5' (H241048-33)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	448	16.0	03/06/2024	ND	432	108	400	3.64	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	208	104	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 70.0 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 34 1.5' (H241048-34)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	4240	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	445	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	82.9	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 35 1.5' (H241048-35)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	3520	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.9 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 36 1.5' (H241048-36)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEx	<0.300	0.300	03/06/2024	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	4000	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	134	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	29.5	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 72.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.1 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 37 1.5' (H241048-37)

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	03/06/2024	ND	2.00	100	2.00	9.57		
Toluene*	<0.050	0.050	03/06/2024	ND	1.99	99.4	2.00	9.49		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.1	2.00	9.42		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.93	98.8	6.00	8.31		
Total BTEX	<0.300	0.300	03/06/2024	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	3760	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	239	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	47.4	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 65.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 38 1.5' (H241048-38)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	7440	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2024	ND	208	104	200	11.5	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	189	94.5	200	6.87	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 81.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.5 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 39 1.5' (H241048-39)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	4640	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.0 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 40 1.5' (H241048-40)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	0.067	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	0.907	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	0.974	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5680	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	61.8	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	5600	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	1170	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 41 1.5' (H241048-41)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	720	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.1 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 42 1.5' (H241048-42)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1300	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	106	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	28.3	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 81.8 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 43 1.5' (H241048-43)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	3440	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	60.7	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	11.3	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 44 1.5' (H241048-44)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	32.0	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 45 1.5' (H241048-45)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	448	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	56.5	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 46 1.5' (H241048-46)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEx	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	256	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	11.4	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 61.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.2 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 47 1.5' (H241048-47)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	2240	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 83.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 48 1.5' (H241048-48)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	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	2600	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	23.7	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 49 1.5' (H241048-49)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	1840	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	62.8	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	12.4	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.0 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 50 1.5' (H241048-50)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	1300	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 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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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 51 1.5' (H241048-51)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEx	<0.300	0.300	03/06/2024	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	800	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 52 1.5' (H241048-52)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 115 % 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	6160	16.0	03/06/2024	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	180	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	44.4	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.6 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 53 1.5' (H241048-53)

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	03/06/2024	ND	1.92	95.9	2.00	1.57	
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63	
Total BTX	<0.300	0.300	03/06/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	03/06/2024	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	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.6 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 54 1.5' (H241048-54)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4800	16.0	03/06/2024	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	03/05/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.8 % 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: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 55 1.5' (H241048-55)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 56 1.5' (H241048-56)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 72.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.3 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 57 1.5' (H241048-57)

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	03/06/2024	ND	1.92	95.9	2.00	1.57		
Toluene*	<0.050	0.050	03/06/2024	ND	2.02	101	2.00	1.51		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.01	100	2.00	2.12		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.11	102	6.00	1.63		
Total BTEX	<0.300	0.300	03/06/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.0 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 58 1.5' (H241048-58)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 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	400	16.0	03/06/2024	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	03/06/2024	ND	213	106	200	2.29	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	217	109	200	3.02	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 84.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.4 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 59 1.5' (H241048-59)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	64.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.7 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 60 1.5' (H241048-60)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.2 % 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	48.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 91.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 61 1.5' (H241048-61)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	48.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.8 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: FS - 62 1.5' (H241048-62)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.1 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 63 1.5' (H241048-63)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	224	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 89.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 64 1.5' (H241048-64)

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 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	112	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 85.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 6 .25' (H241048-65)

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	03/06/2024	ND	2.01	100	2.00	12.5	
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4	
Total BTEx	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 7 .25' (H241048-66)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	1070	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 8 .25' (H241048-67)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.9 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 9 .25' (H241048-68)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	64.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 10 .25' (H241048-69)

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	03/06/2024	ND	2.01	100	2.00	12.5		
Toluene*	<0.050	0.050	03/06/2024	ND	1.98	99.2	2.00	12.4		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	1.94	97.0	2.00	12.1		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	5.63	93.9	6.00	12.4		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	319	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	41.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 88.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 6 0-1.5' (H241048-70)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 1 0-1.5' (H241048-71)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 2 0-1.5' (H241048-72)

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	32.0	16.0	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 96.6 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 3 0-1.5' (H241048-73)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1		
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55		
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND						

Surrogate: 1-Chlorooctane 94.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.0 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 4 0-1.5' (H241048-74)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	03/06/2024	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	03/05/2024	ND	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 81.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.9 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: SW - 5 0-1.5' (H241048-75)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 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	03/06/2024	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	239	119	200	11.1		
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55		
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND						

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 1 .25' (H241048-76)

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	03/06/2024	ND	2.16	108	2.00	2.48		
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	288	16.0	03/06/2024	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	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 2 .25' (H241048-77)

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	03/06/2024	ND	2.16	108	2.00	2.48	
Toluene*	<0.050	0.050	03/06/2024	ND	2.13	106	2.00	2.87	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.07	104	2.00	3.02	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.06	101	6.00	3.01	
Total BTEX	<0.300	0.300	03/06/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.1 % 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	03/06/2024	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	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 82.3 % 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
 KELLY LOWERY
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 3 .25' (H241048-78)

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	03/06/2024	ND	2.04	102	2.00	4.74		
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49		
Total BTEx	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 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	03/06/2024	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	239	119	200	11.1	
DRO >C10-C28*	<10.0	10.0	03/06/2024	ND	216	108	200	8.55	
EXT DRO >C28-C36	<10.0	10.0	03/06/2024	ND					

Surrogate: 1-Chlorooctane 74.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.5 % 49.1-148

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Analytical Results For:

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

Received:	03/01/2024	Sampling Date:	03/01/2024
Reported:	03/07/2024	Sampling Type:	Soil
Project Name:	NIMITZ MDP 13 1 FED COM #311H	Sampling Condition:	Cool & Intact
Project Number:	03B1417138	Sample Received By:	Shalyn Rodriguez
Project Location:	EDDY CO NM		

Sample ID: DS - 4 .25' (H241048-79)

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	03/06/2024	ND	2.04	102	2.00	4.74	
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92	
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28	
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49	
Total BTEX	<0.300	0.300	03/06/2024	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	03/06/2024	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	03/05/2024	ND	202	101	200	9.48	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	197	98.4	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/01/2024
 Reported: 03/07/2024
 Project Name: NIMITZ MDP 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: EDDY CO NM

Sampling Date: 03/01/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: DS - 5 .25' (H241048-80)

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	03/06/2024	ND	2.04	102	2.00	4.74		
Toluene*	<0.050	0.050	03/06/2024	ND	2.09	104	2.00	4.92		
Ethylbenzene*	<0.050	0.050	03/06/2024	ND	2.15	108	2.00	5.28		
Total Xylenes*	<0.150	0.150	03/06/2024	ND	6.38	106	6.00	5.49		
Total BTEX	<0.300	0.300	03/06/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 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	03/06/2024	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	03/05/2024	ND	202	101	200	9.48	
DRO >C10-C28*	<10.0	10.0	03/05/2024	ND	197	98.4	200	4.50	
EXT DRO >C28-C36	<10.0	10.0	03/05/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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

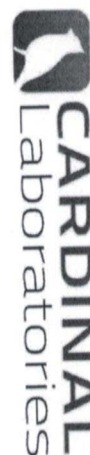
Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC										P.O. #:										ANALYSIS REQUEST									
Project Manager: Kelly Lowery										Company:																			
Address: 601 N. Marientfeld St. STE 400										Attn:																			
City: Midland State: TX Zip: 79701										Address:																			
Phone #: 214-733-3165										Email: klowery@ensolum.com																			
Project #: 03B1417138										Project Owner:																			
Project Name: Nimitz MDP 13 1 FED COM #311H										City:																			
Project Location: Eddy Co. NM										State:																			
Sample Name: Shane Diller										Phone #:																			
FOR LAB USE ONLY										Email:																			
Sample I.D.										Sample Depth (feet)																			
(G)RAB OR (C)OMP.										# CONTAINERS																			
GROUNDWATER										WASTEWATER																			
SOIL										SLUDGE																			
OTHER :										ACID/BASE:																			
ICE / COOL										OTHER :																			
DATE										TIME																			
3/1/2024										1241																			
3/1/2024										1242																			
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3/1/2024										1321																			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Lowery
Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 214-733-3165 Email: Klowery@ensolum.com
Project #: 03B1417138 Project Owner:
Project Name: Nimitz MDP 13 1 FED COM #311H
Project Location: Eddy Co. NM
Sampler Name: Shane Diller

P.O. #: Company:
Attn: Address:
City: State: Zip:
Phone #: Email:

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH	BTEX 8021b	Chlorides 4500						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE											
11	FS-11	1.5	C	X					3/1/2024	1334	X	X	X						
12	FS-12	1.5	C	X					3/1/2024	1335	X	X	X						
13	FS-13	1.5	C	X					3/1/2024	1255	X	X	X						
14	FS-14	1.5	C	X					3/1/2024	1249	X	X	X						
15	FS-15	1.5	C	X					3/1/2024	1333	X	X	X						
16	FS-16	1.5	C	X					3/1/2024	1336	X	X	X						
17	FS-17	1.5	C	X					3/1/2024	1252	X	X	X						
18	FS-18	1.5	C	X					3/1/2024	1253	X	X	X						
19	FS-19	1.5	C	X					3/1/2024	1342	X	X	X						
20	FS-20	1.5	C	X					3/1/2024	1342	X	X	X						

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Relinquished By: *[Signature]* Date: 3/1/24 Time: 1337
Received By: *[Signature]* Date: 3/1/24 Time: 1337
Relinquished By: *[Signature]* Date: 3/1/24 Time: 1337
Received By: *[Signature]* Date: 3/1/24 Time: 1337
Delivered By: (Circle One) Observed Temp. °C Corrected Temp. °C
Cool Intact ☒ Yes ☐ No
Sample - UPS - Bus - Other: ☐ No ☐ No
Sample Condition: ☒ Cool Intact ☐ Yes ☐ No
CHECKED BY: (Initials) *[Signature]*
Turnaround Time: ☐ Rush ☐ Standard ☒ Backfill (only) Sample Condition
Thermometer ID: *4500* Correction Factor: *140*
Remarks: *Discarded Date on Sample 5/1/40*
Verbal Result: ☐ Yes ☐ No Add Phone #:
All Results are emailed. Please provide Email address: *Klowery@ensolum.com / Bjennings@ensolum.com*
FORM-006 R 3.2 10/07/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

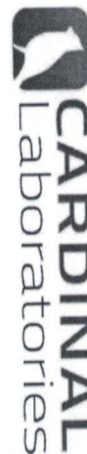
Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST																	
Project Manager: Kelly Lowery		P.O. #:																			
Address: 601 N. Marland St. STE 400		Company:																			
City: Midland		Attn:																			
State: TX Zip: 79701		Address:																			
Phone #: 214-733-3165		City:																			
Project #: 03B1417138		State:																			
Project Name: Nimitz MDP 13 1 FED COM #311H		Zip:																			
Project Location: Eddy Co. NM		Phone #:																			
Sampler Name: Shane Diller		Email:																			
FOR LAB USE ONLY		PRESERV.		SAMPLING																	
Sample I.D. <i>744048</i> Lab I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	TPH 801	BTX 8021b	Chlorides 4500								
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE													
				OTHER :	ACID/BASE:	ICE / COOL	OTHER :														
				21	FS-21	1.5	C											3/1/2024	1336	X	X
22	FS-22	1.5	C						3/1/2024	1338	X	X	X								
23	FS-23	1.5	C						3/1/2024	1338	X	X	X								
24	FS-24	1.5	C						3/1/2024	1255	X	X	X								
25	FS-25	1.5	C						3/1/2024	1257	X	X	X								
26	FS-26	1.5	C						3/1/2024	1256	X	X	X								
27	FS-27	1.5	C						3/1/2024	1258	X	X	X								
28	FS-28	1.5	C						3/1/2024	1330	X	X	X								
29	FS-29	1.5	C						3/1/2024	1340	X	X	X								
30	FS-30	1.5	C						3/1/2024	1341	X	X	X								

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Relinquished By:	Date: <i>3/24</i>	Received By:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
<i>Shane Diller</i>	Time: <i>1537</i>	<i>Speedy/Keene</i>	All Results are emailed. Please provide Email address:	
Relinquished By:	Date:	Received By:	REMARKS: Paykey/AFENonAFE:	
	Time:		<i>Disregard Dir on sample ID 7440</i>	
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	Checked By: (Initials)	Turnaround Time:
Sampler - UPS - Bus - Other:	Corrected Temp. °C	<input checked="" type="checkbox"/> Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> No <input type="checkbox"/> No	<i>SK</i>	Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>
	<i>2.52</i>			Backlog (only) Sample Condition
				Thermometer ID: <i>4445</i>
				Correction Factor: <i>-0.02</i>
				Observed Temp. °C
				Corrected Temp. °C

FORM-006 R 3.2 10/07/21

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

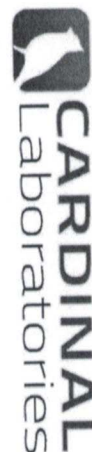
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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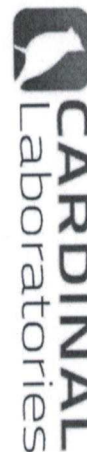
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

April 16, 2024

KELLY LOWERY

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: NIMITZ MDP1 13 1 FED COM #311H

Enclosed are the results of analyses for samples received by the laboratory on 04/05/24 12:07.

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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
FS - 2 2	H241786-01	Soil	05-Apr-24 08:40	05-Apr-24 12:07
FS - 13 2	H241786-02	Soil	05-Apr-24 08:43	05-Apr-24 12:07
FS - 15 3	H241786-03	Soil	05-Apr-24 08:46	05-Apr-24 12:07
FS - 16 3	H241786-04	Soil	05-Apr-24 08:49	05-Apr-24 12:07
FS - 18 3	H241786-05	Soil	05-Apr-24 08:52	05-Apr-24 12:07
FS - 19 3	H241786-06	Soil	05-Apr-24 08:54	05-Apr-24 12:07
FS - 24 3	H241786-07	Soil	05-Apr-24 08:57	05-Apr-24 12:07
FS - 25 3	H241786-08	Soil	05-Apr-24 09:00	05-Apr-24 12:07
FS - 26 3	H241786-09	Soil	05-Apr-24 09:03	05-Apr-24 12:07
FS - 27 3	H241786-10	Soil	05-Apr-24 09:06	05-Apr-24 12:07
FS - 28 3	H241786-11	Soil	05-Apr-24 09:09	05-Apr-24 12:07
FS - 29 3	H241786-12	Soil	05-Apr-24 09:11	05-Apr-24 12:07
FS - 30 3	H241786-13	Soil	05-Apr-24 09:13	05-Apr-24 12:07
FS - 31 3	H241786-14	Soil	05-Apr-24 09:16	05-Apr-24 12:07
FS - 32 3	H241786-15	Soil	05-Apr-24 09:18	05-Apr-24 12:07
FS - 34 2	H241786-16	Soil	05-Apr-24 09:20	05-Apr-24 12:07
FS - 35 3	H241786-17	Soil	05-Apr-24 09:22	05-Apr-24 12:07
FS - 36 3	H241786-18	Soil	05-Apr-24 09:25	05-Apr-24 12:07
FS - 37 3	H241786-19	Soil	05-Apr-24 09:28	05-Apr-24 12:07
FS - 38 2	H241786-20	Soil	05-Apr-24 09:30	05-Apr-24 12:07
FS - 39 3	H241786-21	Soil	05-Apr-24 09:35	05-Apr-24 12:07
FS - 40 3	H241786-22	Soil	05-Apr-24 09:38	05-Apr-24 12:07
FS - 41 3	H241786-23	Soil	05-Apr-24 09:41	05-Apr-24 12:07
FS - 42 3	H241786-24	Soil	05-Apr-24 09:44	05-Apr-24 12:07
FS - 43 2	H241786-25	Soil	05-Apr-24 09:47	05-Apr-24 12:07
FS - 47 3	H241786-26	Soil	05-Apr-24 09:50	05-Apr-24 12:07
FS - 48 3	H241786-27	Soil	05-Apr-24 09:52	05-Apr-24 12:07

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 49 3	H241786-28	Soil	05-Apr-24 09:55	05-Apr-24 12:07
FS - 50 3	H241786-29	Soil	05-Apr-24 09:58	05-Apr-24 12:07
FS - 51 3	H241786-30	Soil	05-Apr-24 10:01	05-Apr-24 12:07
FS - 52 3	H241786-31	Soil	05-Apr-24 10:04	05-Apr-24 12:07
FS - 54 2	H241786-33	Soil	05-Apr-24 10:10	05-Apr-24 12:07
DS - 7 0.5	H241786-34	Soil	05-Apr-24 08:58	05-Apr-24 12:07
DS - 10 0.5	H241786-35	Soil	05-Apr-24 09:02	05-Apr-24 12:07

04/16/24 - Client added TPH to sample -14 and removed sample -32 (see COC). This is the revised report and will replace the one sent on 04/11/24.

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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 2 2
H241786-01 (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	4040521	MS	09-Apr-24	8015B
DRO >C10-C28*	40.6	10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B
<hr/>								
Surrogate: 1-Chlorooctane		82.3 %	48.2-134		4040521	MS	09-Apr-24	8015B
Surrogate: 1-Chlorooctadecane		89.4 %	49.1-148		4040521	MS	09-Apr-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, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 13 2**
H241786-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	5920		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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*=Accredited Analyte

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 15 3
H241786-03 (Soil)

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

Chloride	176		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctane			87.4 %	48.2-134		4040521	MS	09-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			93.9 %	49.1-148		4040521	MS	09-Apr-24	8015B	

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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 16 3**
H241786-04 (Soil)

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

Chloride	272		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 18 3**
H241786-05 (Soil)

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

Chloride	832		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 19 3**
H241786-06 (Soil)

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

Chloride	3520		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 24 3**
H241786-07 (Soil)

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

Chloride	3200		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 25 3
H241786-08 (Soil)

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

Chloride	3600		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 26 3
H241786-09 (Soil)

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

Chloride	3320		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 27 3**
H241786-10 (Soil)

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

Chloride	1580		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 28 3**
H241786-11 (Soil)

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

Chloride	704		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 29 3
H241786-12 (Soil)

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

Chloride	736		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
DRO >C10-C28*	18.1		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			79.0 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			80.2 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 30 3
H241786-13 (Soil)

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

Chloride	272		16.0	mg/kg	4	4040928	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
DRO >C10-C28*	26.2		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			72.6 %	48.2-134		4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			74.5 %	49.1-148		4040524	MS	08-Apr-24	8015B	

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 31 3
H241786-14 (Soil)

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

Chloride	288		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	
DRO >C10-C28*	16.6		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4041226	MS	12-Apr-24	8015B	
Surrogate: 1-Chlorooctane			96.6 %	48.2-134		4041226	MS	12-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1-148		4041226	MS	12-Apr-24	8015B	

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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 32 3**
H241786-15 (Soil)

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

Chloride	176		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 34 2
H241786-16 (Soil)

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

Chloride	928		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
DRO >C10-C28*	32.1		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			67.1 %		48.2-134	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			67.1 %		49.1-148	4040524	MS	08-Apr-24	8015B	

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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 35 3**
H241786-17 (Soil)

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

Chloride	3520		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 36 3
H241786-18 (Soil)

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

Chloride	4160		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
DRO >C10-C28*	46.3		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	14.9		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			77.9 %		48.2-134	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			82.3 %		49.1-148	4040524	MS	08-Apr-24	8015B	

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 37 3
H241786-19 (Soil)

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

Chloride	5760		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
DRO >C10-C28*	68.7		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	22.8		10.0	mg/kg	1	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			83.8 %		48.2-134	4040524	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			85.5 %		49.1-148	4040524	MS	08-Apr-24	8015B	

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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 38 2**
H241786-20 (Soil)

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

Chloride	736		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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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, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 39 3**
H241786-21 (Soil)

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

Chloride	1250		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 40 3
H241786-22 (Soil)

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

Chloride	992		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			79.5 %			48.2-134	4040818	MS	08-Apr-24	8015B
Surrogate: 1-Chlorooctadecane			81.5 %			49.1-148	4040818	MS	08-Apr-24	8015B

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 41 3
H241786-23 (Soil)

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

Chloride	1600		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 42 3
H241786-24 (Soil)

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

Chloride	3440		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
DRO >C10-C28*	21.1		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040818	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			87.6 %	48.2-134		4040818	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			90.0 %	49.1-148		4040818	MS	08-Apr-24	8015B	

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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 43 2**
H241786-25 (Soil)

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

Chloride	320		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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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: NIMITZ MDP1 13 1 FED COM #311 Project Number: 03B1417138 Project Manager: KELLY LOWERY Fax To:	Reported: 16-Apr-24 08:40
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FS - 47 3
H241786-26 (Soil)

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

Inorganic Compounds

Chloride	5280		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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Celestine D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC	Project: NIMITZ MDP1 13 1 FED COM #311	Reported:
705 W WADLEY AVE.	Project Number: 03B1417138	16-Apr-24 08:40
MIDLAND TX, 79705	Project Manager: KELLY LOWERY	
	Fax To:	

FS - 48 3
H241786-27 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Inorganic Compounds										
Chloride	112		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 49 3**
H241786-28 (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	4040929	AC	09-Apr-24	4500-CI-B	
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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, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 50 3**
H241786-29 (Soil)

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

Chloride	4000		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**FS - 51 3**
H241786-30 (Soil)

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

Chloride	1840		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-CI-B	
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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 52 3
H241786-31 (Soil)

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

Chloride	1920		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
DRO >C10-C28*	25.2		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			85.1 %	48.2-134		4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			79.1 %	49.1-148		4040819	MS	08-Apr-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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

FS - 54 2
H241786-33 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	--------------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories**Inorganic Compounds**

Chloride	2960		16.0	mg/kg	4	4040929	AC	09-Apr-24	4500-Cl-B	
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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:Reported:
16-Apr-24 08:40**DS - 7 0.5**
H241786-34 (Soil)

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

Chloride	160		16.0	mg/kg	4	4040930	HM	09-Apr-24	4500-CI-B	
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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: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

DS - 10 0.5
H241786-35 (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	4040819	MS	08-Apr-24	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctane			80.5 %	48.2-134		4040819	MS	08-Apr-24	8015B	
Surrogate: 1-Chlorooctadecane			77.0 %	49.1-148		4040819	MS	08-Apr-24	8015B	

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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 4040928 - 1:4 DI Water**Blank (4040928-BLK1)**

Prepared & Analyzed: 09-Apr-24

Chloride	ND	16.0	mg/kg
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LCS (4040928-BS1)

Prepared & Analyzed: 09-Apr-24

Chloride	464	16.0	mg/kg	400	116	80-120
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LCS Dup (4040928-BSD1)

Prepared & Analyzed: 09-Apr-24

Chloride	448	16.0	mg/kg	400	112	80-120	3.51	20
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Batch 4040929 - 1:4 DI Water**Blank (4040929-BLK1)**

Prepared & Analyzed: 09-Apr-24

Chloride	ND	16.0	mg/kg
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LCS (4040929-BS1)

Prepared & Analyzed: 09-Apr-24

Chloride	432	16.0	mg/kg	400	108	80-120
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LCS Dup (4040929-BSD1)

Prepared & Analyzed: 09-Apr-24

Chloride	432	16.0	mg/kg	400	108	80-120	0.00	20
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Batch 4040930 - 1:4 DI Water**Blank (4040930-BLK1)**

Prepared & Analyzed: 09-Apr-24

Chloride	ND	16.0	mg/kg
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LCS (4040930-BS1)

Prepared & Analyzed: 09-Apr-24

Chloride	432	16.0	mg/kg	400	108	80-120
----------	-----	------	-------	-----	-----	--------

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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 4040930 - 1:4 DI Water**LCS Dup (4040930-BSD1)**

Prepared & Analyzed: 09-Apr-24

Chloride	464	16.0	mg/kg	400		116	80-120	7.14	20	
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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040521 - General Prep - Organics**Blank (4040521-BLK1)**

Prepared: 05-Apr-24 Analyzed: 08-Apr-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	48.2-134		
Surrogate: 1-Chlorooctadecane	44.1		mg/kg	50.0		88.2	49.1-148		

LCS (4040521-BS1)

Prepared: 05-Apr-24 Analyzed: 08-Apr-24

GRO C6-C10	234	10.0	mg/kg	200		117	66.4-123		
DRO >C10-C28	239	10.0	mg/kg	200		120	66.5-118		BS-3
Total TPH C6-C28	473	10.0	mg/kg	400		118	77.6-123		
Surrogate: 1-Chlorooctane	42.6		mg/kg	50.0		85.2	48.2-134		
Surrogate: 1-Chlorooctadecane	44.6		mg/kg	50.0		89.1	49.1-148		

LCS Dup (4040521-BSD1)

Prepared: 05-Apr-24 Analyzed: 08-Apr-24

GRO C6-C10	243	10.0	mg/kg	200		121	66.4-123	3.47	17.7	
DRO >C10-C28	252	10.0	mg/kg	200		126	66.5-118	5.38	21	BS-3
Total TPH C6-C28	495	10.0	mg/kg	400		124	77.6-123	4.44	18.5	BS-3
Surrogate: 1-Chlorooctane	47.0		mg/kg	50.0		93.9	48.2-134			
Surrogate: 1-Chlorooctadecane	49.6		mg/kg	50.0		99.1	49.1-148			

Batch 4040524 - General Prep - Organics**Blank (4040524-BLK1)**

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	55.8		mg/kg	50.0		112	48.2-134		
Surrogate: 1-Chlorooctadecane	57.2		mg/kg	50.0		114	49.1-148		

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 4040524 - General Prep - Organics**LCS (4040524-BS1)**

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	191	10.0	mg/kg	200		95.7	66.4-123		
DRO >C10-C28	207	10.0	mg/kg	200		103	66.5-118		
Total TPH C6-C28	398	10.0	mg/kg	400		99.5	77.6-123		
Surrogate: 1-Chlorooctane	60.1		mg/kg	50.0		120	48.2-134		
Surrogate: 1-Chlorooctadecane	62.2		mg/kg	50.0		124	49.1-148		

LCS Dup (4040524-BS1)

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	201	10.0	mg/kg	200		100	66.4-123	4.78	17.7
DRO >C10-C28	205	10.0	mg/kg	200		103	66.5-118	0.657	21
Total TPH C6-C28	406	10.0	mg/kg	400		102	77.6-123	2.00	18.5
Surrogate: 1-Chlorooctane	61.3		mg/kg	50.0		123	48.2-134		
Surrogate: 1-Chlorooctadecane	64.0		mg/kg	50.0		128	49.1-148		

Batch 4040818 - General Prep - Organics**Blank (4040818-BLK1)**

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	44.6		mg/kg	50.0		89.2	48.2-134		
Surrogate: 1-Chlorooctadecane	46.1		mg/kg	50.0		92.3	49.1-148		

LCS (4040818-BS1)

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	237	10.0	mg/kg	200		118	66.4-123		
DRO >C10-C28	247	10.0	mg/kg	200		124	66.5-118		BS-3
Total TPH C6-C28	484	10.0	mg/kg	400		121	77.6-123		
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.0	48.2-134		
Surrogate: 1-Chlorooctadecane	47.0		mg/kg	50.0		94.0	49.1-148		

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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 4040818 - General Prep - Organics**LCS Dup (4040818-BSD1)**

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	234	10.0	mg/kg	200		117	66.4-123	0.929	17.7	
DRO >C10-C28	247	10.0	mg/kg	200		124	66.5-118	0.0413	21	BS-3
Total TPH C6-C28	482	10.0	mg/kg	400		120	77.6-123	0.432	18.5	
Surrogate: 1-Chlorooctane	46.0		mg/kg	50.0		92.0	48.2-134			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.7	49.1-148			

Batch 4040819 - General Prep - Organics**Blank (4040819-BLK1)**

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	46.7		mg/kg	50.0		93.4	48.2-134			
Surrogate: 1-Chlorooctadecane	42.8		mg/kg	50.0		85.6	49.1-148			

LCS (4040819-BS1)

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	259	10.0	mg/kg	200		129	66.4-123			BS-3
DRO >C10-C28	255	10.0	mg/kg	200		127	66.5-118			BS-3
Total TPH C6-C28	513	10.0	mg/kg	400		128	77.6-123			BS-3
Surrogate: 1-Chlorooctane	47.1		mg/kg	50.0		94.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		89.0	49.1-148			

LCS Dup (4040819-BSD1)

Prepared & Analyzed: 08-Apr-24

GRO C6-C10	240	10.0	mg/kg	200		120	66.4-123	7.50	17.7	
DRO >C10-C28	247	10.0	mg/kg	200		124	66.5-118	2.96	21	BS-3
Total TPH C6-C28	487	10.0	mg/kg	400		122	77.6-123	5.23	18.5	
Surrogate: 1-Chlorooctane	46.6		mg/kg	50.0		93.2	48.2-134			
Surrogate: 1-Chlorooctadecane	43.4		mg/kg	50.0		86.8	49.1-148			

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Analytical Results For:

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

Project: NIMITZ MDP1 13 1 FED COM #311
Project Number: 03B1417138
Project Manager: KELLY LOWERY
Fax To:

Reported:
16-Apr-24 08:40

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 4041226 - General Prep - Organics**Blank (4041226-BLK1)**

Prepared & Analyzed: 12-Apr-24

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.1	48.2-134			
Surrogate: 1-Chlorooctadecane	52.8		mg/kg	50.0		106	49.1-148			

LCS (4041226-BS1)

Prepared & Analyzed: 12-Apr-24

GRO C6-C10	188	10.0	mg/kg	200		93.9	66.4-123			
DRO >C10-C28	202	10.0	mg/kg	200		101	66.5-118			
Total TPH C6-C28	390	10.0	mg/kg	400		97.6	77.6-123			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0		91.6	48.2-134			
Surrogate: 1-Chlorooctadecane	48.9		mg/kg	50.0		97.8	49.1-148			

LCS Dup (4041226-BS1)

Prepared & Analyzed: 12-Apr-24

GRO C6-C10	190	10.0	mg/kg	200		94.9	66.4-123	1.01	17.7	
DRO >C10-C28	199	10.0	mg/kg	200		99.4	66.5-118	1.85	21	
Total TPH C6-C28	389	10.0	mg/kg	400		97.1	77.6-123	0.462	18.5	
Surrogate: 1-Chlorooctane	48.4		mg/kg	50.0		96.8	48.2-134			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	49.1-148			

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Notes and Definitions

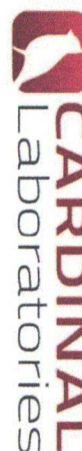
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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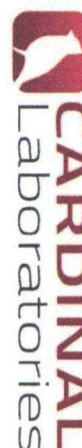
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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N. Marlenfeld St. STE 400

City: Midland **State:** TX **Zip:** 79701

Phone #: 214-733-3165 **Email:** klowery@ensolum.com

Project #: 03B1417138 **Project Owner:**

Project Name: NIMITZ MDP1 13.1 Federal Com. #311H

Project Location: 32.222561, 103.992187

Sampler Name: Kaoru Shinada, Shane Diller

P.O. #:

Company: OXY USA

Attn: Wade Dittich

Address:

City:

State: **Zip:**

Phone #:

Email:

BILL TO

FOR LAB USE ONLY

Sample I.D. Lab I.D.	Sample Depth (feet)	(G/RAB OR C)OMP.	# CONTAINERS	MATRIX						DATE	TIME
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :		
11	F-5 2.8		1	X						4/5/14	9:09
12	F-5 2.9										9:11
13	F-5 3.0		1								9:13
14	F-5 3.1										9:16
15	F-5 3.2										9:18
16	F-5 3.4										9:20
17	F-5 3.5										9:21
18	F-5 3.6										9:25
19	F-5 3.7										9:29
20	F-5 3.9									4/5/14	9:30

PRESERV.	SAMPLING	DATE	TIME	BTEX 8015M	TPH 8021B	Chloride 4500	TPH 8021B	TPH added 4/12/14

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Relinquished By:

Date: 4-5-14 **Received By:**

Time: 12:07 PM **Received By:**

Date: **Received By:**

Time:

Verbal Result: ☐ Yes ☒ No

Add'l Phone #:

REMARKS: Paykey/AFENonAFE:

Delivered By: (Circle One) **Observed Temp. °C** 4.1°C

Sampler - UPS - Bus - Other:

Corrected Temp. °C

Sample Condition

☐ Cool ☐ Intact

☐ Yes ☐ No

Turnaround Time: ☒ Standard ☐ Rush

Bacteria (only) Sample Condition

☐ Yes ☐ No

Thermometer ID #773

Correction Factor -0.5°C

Observed Temp. °C

Corrected Temp. °C



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Kelly Lowery
Address: 601 N. Marlenfield St. STE 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 214-733-3165 **Email:** klowery@ensolum.com
Project #: 03B1417138 **Project Owner:**
Project Name: NIMITZ MDP1 13 + Federal Com. #311H
Project Location: 32.222661, 103.992187
Sample Name: Kaoru Shinada, Shane Diller

P.O. #:
Company: OXY USA
Attn: Wade Dittich
Address:
City:
State: **Zip:**
Phone #:
Email:

BILL TO

ANALYSIS REQUEST

FOR LAB USE ONLY

Sample I.D. Lab I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8015M	TPH 8021B	Chloride 4500
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
21	FS 39		1	X						4/5/24	935			
22	FS 40		1								938	X		
23	FS 41		1								944	X		
24	FS 42		1								944	X		
25	FS 43		1								944	X		
26	FS 44		1								950	X		
27	FS 49		1								952	X		
28	FS 49		1								955	X		
29	FS 50		1								958	X		
30	FS 51		1	X						4/5/24	1001			

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Relinquished By: *[Signature]* **Date:** 4-5-24 **Received By:** *[Signature]* **Date:** 4-5-24
Time: 12:07 **Relinquished By:** *[Signature]* **Received By:** *[Signature]*
Date: **Time:**

REMARKS: Paykey/AFENONAFE:

Delivered By: (Circle One) **Observed Temp. °C** *4/28* **Sample Condition** **Cool** ☒ **Intact** ☐ **Yes** ☐ **No** ☐ **No**

Sampler - UPS - Bus - Other: *1140* **CHECKED BY:** *[Signature]* (Initials)

Turnaround Time: **Standard** ☒ **Bacteria (only) Sample Condition** ☐ **Rush** ☐ **Cool** ☐ **Intact** ☐ **Observed Temp. °C**

Thermometer ID *8773* **Correction Factor** *0.07C* **Yes** ☐ **No** ☐ **Yes** ☐ **No** ☐ **Corrected Temp. °C**

Verbal Result: ☐ **Yes** ☒ **No** **Add'l Phone #:** **All Results are emailed. Please provide Email address:** *klowery@ensolum.com*



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Kelly Lowery

Address: 601 N. Marfield St. STE 400
City: Midland **State:** TX **Zip:** 79701

Phone #: 214-733-3165 **Email:** klowery@ensolum.com

Project #: 03B1417138 **Project Owner:**

Project Name: NIMITZ MDP1 131 Federal Com. #311H

Project Location: 32.222561, 103.992187

Sample Name: Kaoru Shinada, Shane Diller

P.O. #:

Company: OXY USA

Attn: Wade Ditrich

Address:

City: **State:** **Zip:**

Phone #:

Email:

BILL TO

ANALYSIS REQUEST

Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8015M	TPH 8021B	Chloride 4500							
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER : ACID/BASE: OTHER :												
31	15	3	1							4/5/24	1004										
32	53	2	1							4/5/24	1009										
33	54	2	1							4/5/24	1015										
34	7	2.5	1							4/5/24	8359										
35	10	2.5	1							4/5/24	902										

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Relinquished By: [Signature]

Relinquished By: [Signature]

Time: 4:50 PM

Date: 4/5/24

Received By: [Signature]

Time: 4:50 PM

Date: 4/5/24

Received By: [Signature]

Verbal Result: ☐ Yes ☒ No

Add'l Phone #:

REMARKS: Paykey/AFFENIONAFE:

Delivered By: (Circle One) **Observed Temp. °C** 21.0

Sampler - UPS - Bus - Other: **Corrected Temp. °C** #140

Sample Condition: ☐ Cool ☒ Intact

CHECKED BY: (Initials) [Signature]

Turnaround Time: ☒ Standard ☐ Bacteria (only) Sample Condition

Thermometer ID: #44 **Correction Factor:** -0.3°C

Observed Temp. °C 21.0 **Corrected Temp. °C** 20.7



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: NIMITZ MDP1 13 1 FED COM #311H

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

Received: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 13 4 (H242558-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 19 4 (H242558-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 18 4 (H242558-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 24 4 (H242558-04)

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	05/14/2024	ND	416	104	400	7.41	

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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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 25 4 (H242558-05)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 26 4 (H242558-06)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 27 4 (H242558-07)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 28 4 (H242558-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 29 4 (H242558-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	05/14/2024	ND	416	104	400	7.41	

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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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 34 4 (H242558-10)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 35 4 (H242558-11)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 36 5 (H242558-12)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 37 5 (H242558-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 38 5 (H242558-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/14/2024	ND	416	104	400	7.41	

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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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 39 5 (H242558-15)

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	05/14/2024	ND	416	104	400	7.41	

Sample ID: FS - 40 6 (H242558-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/13/2024	ND	432	108	400	0.00	

Sample ID: FS - 41 6 (H242558-17)

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	05/13/2024	ND	432	108	400	0.00	

Sample ID: FS - 42 4 (H242558-18)

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	05/13/2024	ND	432	108	400	0.00	

Sample ID: FS - 47 4 (H242558-19)

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	05/13/2024	ND	432	108	400	0.00	

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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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/09/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS - 50 6 (H242558-20)

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	05/13/2024	ND	432	108	400	0.00		

Sample ID: FS - 51 6 (H242558-21)

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	05/13/2024	ND	432	108	400	0.00		

Sample ID: FS - 52 6 (H242558-22)

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	05/13/2024	ND	432	108	400	0.00		

Sample ID: FS - 54 4 (H242558-23)

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	05/13/2024	ND	432	108	400	0.00		

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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

Cardinal Laboratories

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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

BILL TO

ANALYSIS REQUEST

Company Name:	Ensolum, LLC	P.O. #:	
Project Manager:	Beaux Jennings	Company:	Oxy USA, Inc.
Address:	601 N. Marlenfeld St. STE 400	Attn:	Wade Dittich
City:	Midland	State:	TX
Phone #:	210-219-8858	Fax #:	79701
Project #:	03B1417138	Project Owner:	
Project Name:	Nimitz HDP 1131 Federal Com #311H	City:	
Project Location:	Eddy County	State:	
Sample Name:	Tabitha Guadian	Phone #:	575-390-2828
		Fax #:	

FOR LAB USE ONLY		Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX						PRESERV	SAMPLING																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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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 analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated remedies or otherwise.

Relinquished By:	Date: 5/10/24	Received By:	Date: 5/10/24
Relinquished By:	Date:	Received By:	Date:
Delivered By: (Circle One)	Observed Temp. °C: 1.4	Sample Condition:	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	Corrected Temp. °C:	Cool Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Thermometer ID: #443
		Correction Factor: 0.00	Standard: <input checked="" type="checkbox"/> Rush <input type="checkbox"/> 5/10/24
		Bacteria (only) Sample Condition: <input type="checkbox"/> Cool Intact <input type="checkbox"/> Observed Temp. °C	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush
		Corrected Temp. °C:	Thermometer ID: #443
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101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC		P.O. #:		BILL TO												ANALYSIS REQUEST																											
Project Manager: Beaux Jennings		Company: Oxy USA, Inc.																																									
Address: 601 N. Marlenfeld St. STE 400		Attn: Wade Dittrich																																									
City: Midland		Address:																																									
Phone #: 210-219-8858		Fax #:																																									
Project #: 0831417138		City:																																									
Project Name: Nimitz HDP131 Federal Com #31114		State:																																									
Project Location: Eddy County		Phone #:																																									
Sample Name: Tabitha Guadian		Fax #:																																									
FOR LAB USE ONLY		DATE																																									
Lab I.D.		Sample I.D.		Sample Depth (feet)		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
H243558		FS-35		4		C 1		X		X		X		X		X		X		X		X		X		X		5/19/24		1428		Chloride 4500											
12		FS-36		5		C 1		X		X		X		X		X		X		X		X		X		X		1430		X													
13		FS-37		5		C 1		X		X		X		X		X		X		X		X		X		X		1432		X													
14		FS-38		5		C 1		X		X		X		X		X		X		X		X		X		X		1434		X													
15		FS-39		5		C 1		X		X		X		X		X		X		X		X		X		X		1436		X													
16		FS-40		6		C 1		X		X		X		X		X		X		X		X		X		X		1438		X													
17		FS-41		6		C 1		X		X		X		X		X		X		X		X		X		X		1440		X													
18		FS-42		4		C 1		X		X		X		X		X		X		X		X		X		X		1442		X													
19		FS-47		4		C 1		X		X		X		X		X		X		X		X		X		X		1444		X													
20		FS-50		6		C 1		X		X		X		X		X		X		X		X		X		X		5/19/24		1446		X											
<p>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 analysis. 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 rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																																											
Relinquished By: <i>Pauli</i>		Date: 5/16/24		Time: 10:36		Received By: <i>Guiana Williams</i>		Date: 5/19/24		Time: 1428		REMARKS: Blennings@ensolum.com / K Lowery @ensolum.com																															
Delivered By: (Circle One)		Observed Temp.: °C		Corrected Temp.: °C		Sample Condition		CHECKED BY: (Initials)		Turnaround Time:																																	
Sampler - UPS - Bus - Other:		1.6		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		V.E.		Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>																																	

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



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: NIMITZ MDP1 13 1 FED COM #311H

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

Received: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 7 0-4' (H242557-01)

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	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	176	16.0	05/13/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 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

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: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 8 0-4' (H242557-02)

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	05/14/2024	ND	1.90	95.1	2.00	7.48		
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93		
Total BTEX	<0.300	0.300	05/14/2024	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	05/13/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 9 0-4' (H242557-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	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	160	16.0	05/14/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 10 0-4' (H242557-04)

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	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	256	16.0	05/14/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 94.2 % 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: 05/10/2024
Reported: 05/16/2024
Project Name: NIMITZ MDP1 13 1 FED COM #311H
Project Number: 03B1417138
Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: SW - 11 0-4' (H242557-05)

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	05/14/2024	ND	1.90	95.1	2.00	7.48		
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93		
Total BTEX	<0.300	0.300	05/14/2024	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	304	16.0	05/14/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	22.1	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 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.4 % 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: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 12 0-4' (H242557-06)

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	05/14/2024	ND	1.90	95.1	2.00	7.48		
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76		
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31		
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93		
Total BTEX	<0.300	0.300	05/14/2024	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	192	16.0	05/14/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Analytical Results For:

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

Received: 05/10/2024
 Reported: 05/16/2024
 Project Name: NIMITZ MDP1 13 1 FED COM #311H
 Project Number: 03B1417138
 Project Location: OXY 32.222561, -103.992187

Sampling Date: 05/10/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: SW - 13 0-4' (H242557-07)

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	05/14/2024	ND	1.90	95.1	2.00	7.48	
Toluene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.76	
Ethylbenzene*	<0.050	0.050	05/14/2024	ND	1.98	99.1	2.00	6.31	
Total Xylenes*	<0.150	0.150	05/14/2024	ND	6.14	102	6.00	5.93	
Total BTEX	<0.300	0.300	05/14/2024	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	224	16.0	05/14/2024	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	05/13/2024	ND	179	89.6	200	2.08	
DRO >C10-C28*	<10.0	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 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.7 % 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



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: Beaux Jennings

Address: 601 N Marlenfeld Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 210-219-8858

Fax #:

Project #: 03B1417138

Project Owner:

Project Name: Nimitz MDP131 Federal com # 3114

Project Location: Eddy County

Sampler Name: Takisha Guadian

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Oxy USA Inc.

Attn: Wade Dittrich

Address:

City:

State: Zip:

Phone #: 575-390-2828

Fax #:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

Depth (feet)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX 8021B

TPH 8015M

Chloride 4500

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Relinquished By:

Date:

Received By:

Date:

Time:

Time:

Verbal Result: ☐ Yes ☐ No Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS: klowery@ensolum.com

Relinquished By:

Date:

Received By:

Date:

Time:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY:

(Initials)

Turnaround Time:

Standard

Bacteria (only)

Cool Intact

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 356405

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
	Action Number:
	356405
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2400330251
Incident Name	NAPP2400330251 NIMITZ MDP1 13 1 FEDERAL COM. #311H @ 0
Incident Type	Blow Out
Incident Status	Reclamation Report Received

Location of Release Source	
Please answer all the questions in this group.	
Site Name	NIMITZ MDP1 13 1 Federal Com. #311H
Date Release Discovered	12/31/2023
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: Equipment Failure Flow Line - Production Crude Oil Released: 50 BBL Recovered: 20 BBL Lost: 30 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 10 BBL Recovered: 5 BBL Lost: 5 BBL.
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)	Not answered.

District I

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

District II

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

District III

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

District IV

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

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

QUESTIONS, Page 2

Action 356405

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
	Action Number:	356405
	Action Type:	[C-141] Reclamation Report C-141 (C-141-v-Reclamation)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/20/2024
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District I

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

District II

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

District III

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

District IV

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

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
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QUESTIONS, Page 3

Action 356405

QUESTIONS (continued)

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	16696
	Action Number:
	356405
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

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 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1000 (ft.) and ½ (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 500 and 1000 (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	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

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

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

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

Chloride	(EPA 300.0 or SM4500 Cl B)	8660
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	6832
GRO+DRO	(EPA SW-846 Method 8015M)	2282
BTEX	(EPA SW-846 Method 8021B or 8260B)	1
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	12/31/2023
On what date will (or did) the final sampling or liner inspection occur	05/10/2024
On what date will (or was) the remediation complete(d)	05/10/2024
What is the estimated surface area (in square feet) that will be reclaimed	25752
What is the estimated volume (in cubic yards) that will be reclaimed	2643
What is the estimated surface area (in square feet) that will be remediated	25752
What is the estimated volume (in cubic yards) that will be remediated	2643

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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Energy, Minerals and Natural Resources
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QUESTIONS, Page 4

Action 356405

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:	16696
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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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/20/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

QUESTIONS, Page 5

Action 356405

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

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 356405

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID:
	16696
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	356405
Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	341094
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/09/2024
What was the (estimated) number of samples that were to be gathered	48
What was the sampling surface area in square feet	14400

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	25752
What was the total volume (cubic yards) remediated	2643
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	25752
What was the total volume (in cubic yards) reclaimed	2643
Summarize any additional remediation activities not included by answers (above)	NA

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: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/20/2024
--	---

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Action 356405

QUESTIONS (continued)

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QUESTIONS

Reclamation Report	
<i>Only answer the questions in this group if all reclamation steps have been completed.</i>	
Requesting a reclamation approval with this submission	Yes
What was the total reclamation surface area (in square feet) for this site	25752
What was the total volume of replacement material (in cubic yards) for this site	2643
<i>Per Paragraph (1) of Subsection D of 19.15.29.13 NMAC the reclamation must contain a minimum of four feet of non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. The soil cover must include a top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater.</i>	
Is the soil top layer complete and is it suitable material to establish vegetation	Yes
On what (estimated) date will (or was) the reseeding commence(d)	06/04/2024
Summarize any additional reclamation activities not included by answers (above)	NA
<i>The responsible party must attach information demonstrating they have complied with all applicable reclamation requirements and any conditions or directives of the OCD. This demonstration should be in the form of attachments (in .pdf format) including a scaled site map, any proposed reseeding plans or relevant field notes, photographs of reclaimed area, and a narrative of the reclamation activities. Refer to 19.15.29.13 NMAC.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 06/20/2024

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QUESTIONS, Page 8

Action 356405

QUESTIONS (continued)

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	Action Number:
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Action Type:	
[C-141] Reclamation Report C-141 (C-141-v-Reclamation)	

QUESTIONS

Revegetation Report	
<i>Only answer the questions in this group if all surface restoration, reclamation and re-vegetation obligations have been satisfied.</i>	
Requesting a restoration complete approval with this submission	No
<i>Per Paragraph (4) of Subsection (D) of 19.15.29.13 NMAC for any major or minor release containing liquids, the responsible party must notify the division when reclamation and re-vegetation are complete.</i>	

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CONDITIONS

Action 356405

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 356405
	Action Type: [C-141] Reclamation Report C-141 (C-141-v-Reclamation)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2400330251 NIMITZ MDP1 13 1 FEDERAL COM. #311H, thank you. This Remediation Closure Report is approved.	6/27/2024