



March 25, 2026

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Mesa Verde Water Polishing Facility
Incident Number NAPP2217848858
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Closure Request* to document excavation and soil sampling activities performed at Mesa Verde Water Polishing Facility (WPF) (Site). The purpose of the excavation and soil sampling activities was to address impacted soil resulting from a release of produced water at the Site. Based on field observations, delineation activities, excavation activities, and laboratory analytical results from the soil sampling events, Oxy is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2217848858.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit L, Section 15, Township 24 South, Range 32 East, in Lea County, New Mexico (32.21428°, -103.66918°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM) and on privately owned land.

On June 3, 2022, corrosion on a 12-inch steel line resulted in a release of approximately 100 barrels (bbls) of produced water onto the adjacent pad, lease road and pasture. A vacuum truck was dispatched to the Site to recover free-standing fluids and approximately 75 bbls of released fluids were recovered. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 27, 2022. The release was assigned Incident Number NAPP2217848858.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Potential Site receptors are identified on Figure 4.

The closest permitted groundwater well with depth to groundwater data was United States Geological Survey (USGS) well 321312103395601, located approximately 0.80 miles northeast of the Site. The groundwater well has a total depth of 60 feet below ground surface (bgs) and was last measured on December 16, 2010, with groundwater encountered at 33.96 feet bgs. Due to the distance of the well, the NMOCD requested that a new depth to groundwater soil boring be drilled to confirm the presence or absence of groundwater within half a mile of the Site. On December 9, 2024, Ensolum and West

Texas Water Well Service, a licensed driller in the state of New Mexico, advanced one soil boring (SB-1/C-04910-POD1) to a total depth of 105 feet bgs. The boring was left open for a period of 72 hours to allow for the potential inflow of groundwater. After 72 hours, the boring was measured with no groundwater encountered and was subsequently plugged per the approved plugging plan. All wells used for depth to groundwater determination are presented in Figure 4. The referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site based on the National Hydrography Dataset (NHD) map is an ephemeral stream, located approximately 6.51 miles southeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, greater than 300 feet from a wetland, and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 500 feet from a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes and greater than 1,000 feet to any freshwater well or spring. The Site is not within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance, and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by stable geology (low potential karst designation area). Site receptors are identified on Figure 4.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- Total TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area, lease road, and pad that were impacted by the release, per 19.15.29.13 D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remediation.

DELINEATION AND EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between November 22, 2024, and November 5, 2025, Ensolum personnel were at the Site to oversee delineation and excavation activities of impacted soil in the area. Excavation activities were advanced based on the *Remediation Work Plan* submitted to the NMOCD on December 30, 2024, and subsequently approved on January 4, 2025. The approved *Remediation Work Plan* is included as Appendix D. Delineation and excavation activities were performed using a backhoe and transport vehicles. To direct delineation and excavation activities, soil was screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), TPH utilizing a calibrated PetroFLAG[®] Soil Reagents test kit, and chlorides utilizing Hach[®] chloride QuanTab[®] test strips. The excavation was completed to depths ranging from 0.5 feet to 4 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS118, CS119, and FS120 through FS145 were collected from the floor of the excavation at depths ranging from 0.5 feet to 4 feet

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bgs. Composite soil samples SW01 through SW28 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. Additionally, delineation soil samples DS01 through DS08 were collected from areas immediately outside of the observed release extent at a depth of 0.5 feet bgs. The release extent and delineation soil samples as well as the excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented in Figure 3.

Samples were placed in pre-cleaned glass jars labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-Oil Range Organics (ORO) following EPA Method 8015M/D, and chloride following Standard Method SM-4500 Cl-B.

Laboratory analytical results for the final excavation floor soil samples FS01 through FS118, CS119, and FS120 through FS145, the final excavation sidewall soil samples SW01 through SW28, and the delineation soil samples DS01 through DS08 indicated all constituents of concern (COC) concentrations were compliant with the applicable Closure Criteria. Laboratory analytical results are summarized in Table 1, and the complete laboratory analytical reports are included as Appendix C.

The final excavation extent area measured approximately 16,444 square feet and the final release extent area measured approximately 11,862 square feet. A total of approximately 2,656 cubic yards of impacted soil was removed, transported, and properly disposed of at Lea Land Facility in Hobbs, New Mexico. Subsequent to receipt of final laboratory analytical results, the excavations in the pasture were backfilled with clean topsoil material and the excavations on the pad and lease road were backfilled with clean caliche fill material and recontoured back to original grade. The backfill laboratory analytical results are summarized in Table 2, and the complete laboratory analytical report is included as Appendix C.

CLOSURE REQUEST

Excavation activities were conducted at the Site to the maximum extent practical to address the release of produced water on June 3, 2022. Laboratory analytical results for the delineation and excavation confirmation soil samples indicated all COC concentrations were compliant with the applicable Table I Closure Criteria. A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the pasture area, lease road, and pad that were impacted by the release, per 19.15.29.13 D (1) NMAC for the top 4 feet of areas that will be immediately reclaimed following remediation.

Oxy believes the remedial actions completed are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests closure for Incident Number NAPP2217848858.

If you have any questions or comments, please contact Ms. Kelly Lowery at (214) 733-3165 or klowery@ensolum.com.

Sincerely,
Ensolum, LLC



Kelly Lowery
Project Geologist



Beaux Jennings
Associate Principal

 **ENSOLUM**

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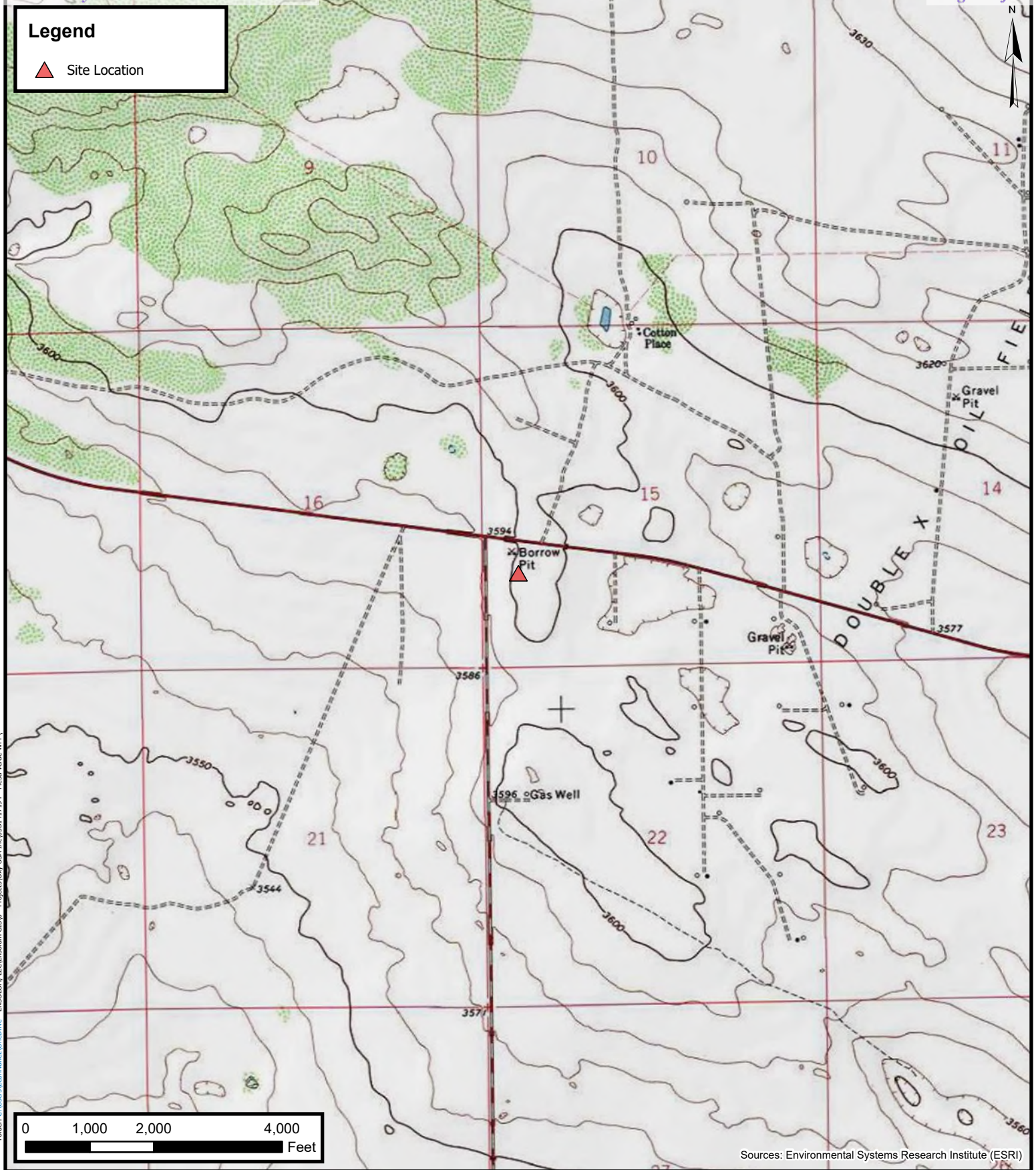
cc: Daniel Sparks, Oxy
Bureau of Land Management

Appendices:

Figure 1 Topographic Map
Figure 2 Site Vicinity Map
Figure 3 Site Map
Figure 4 Closure Criteria Map
Table 1 Soil Sample Analytical Results
Table 2 Backfill Soil Sample Analytical Results
Appendix A Supporting Documentation
Appendix B Photographic Log
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D *Remediation Work Plan*; Dated December 30, 2024



FIGURES



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Topographic Map

Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 Project Number: 03B1417194
 32.21428, -103.66918
 Lea County, New Mexico

FIGURE

1

Legend

▲ Site Location



0 500 1,000 2,000
Feet

Sources: Environmental Systems Research Institute (ESRI)

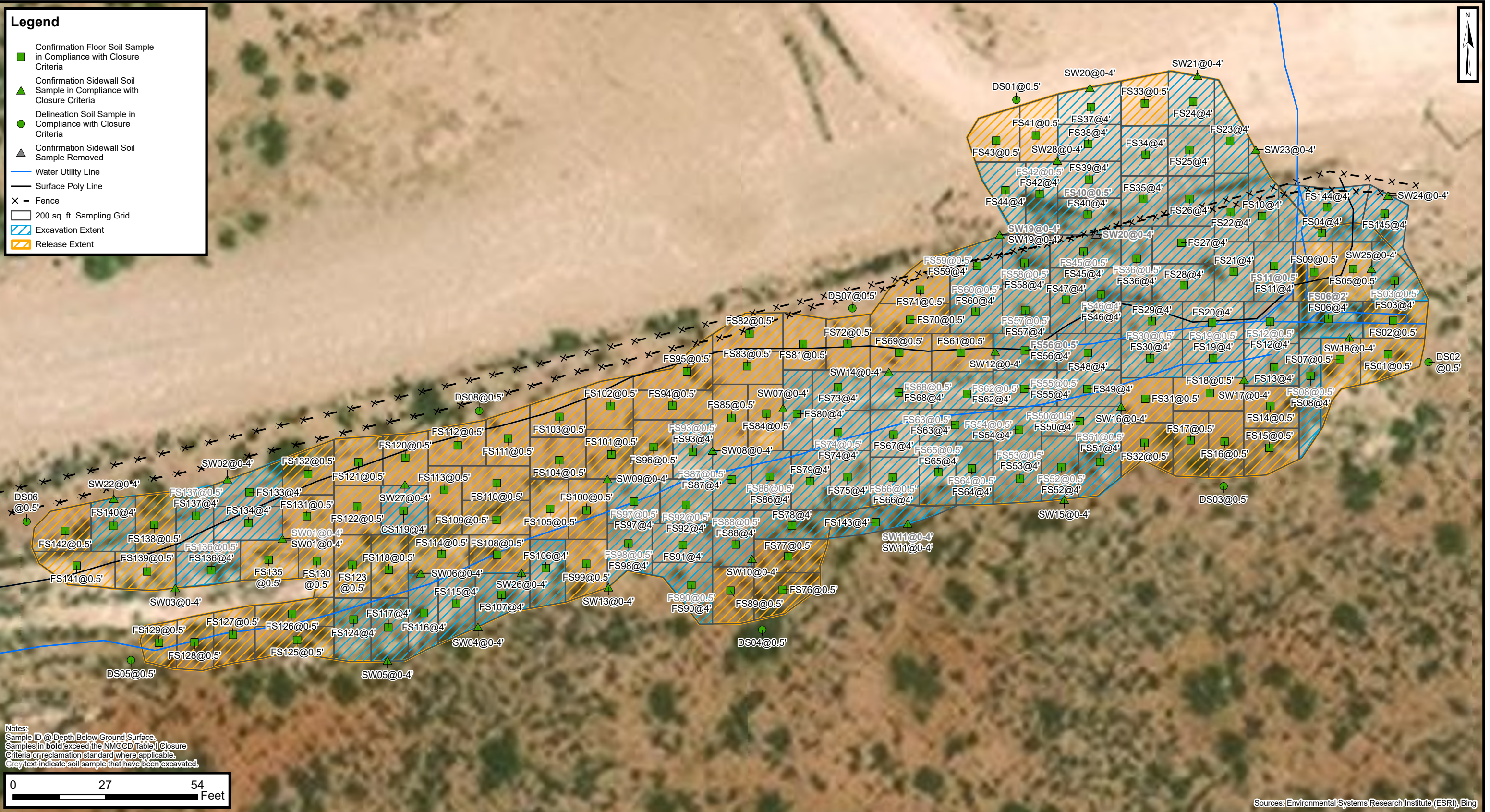


Site Vicinity Map

Oxy USA Inc.
Mesa Verde Water Polishing Facility
Project Number: 03B1417194
32.21428, -103.66918
Lea County, New Mexico

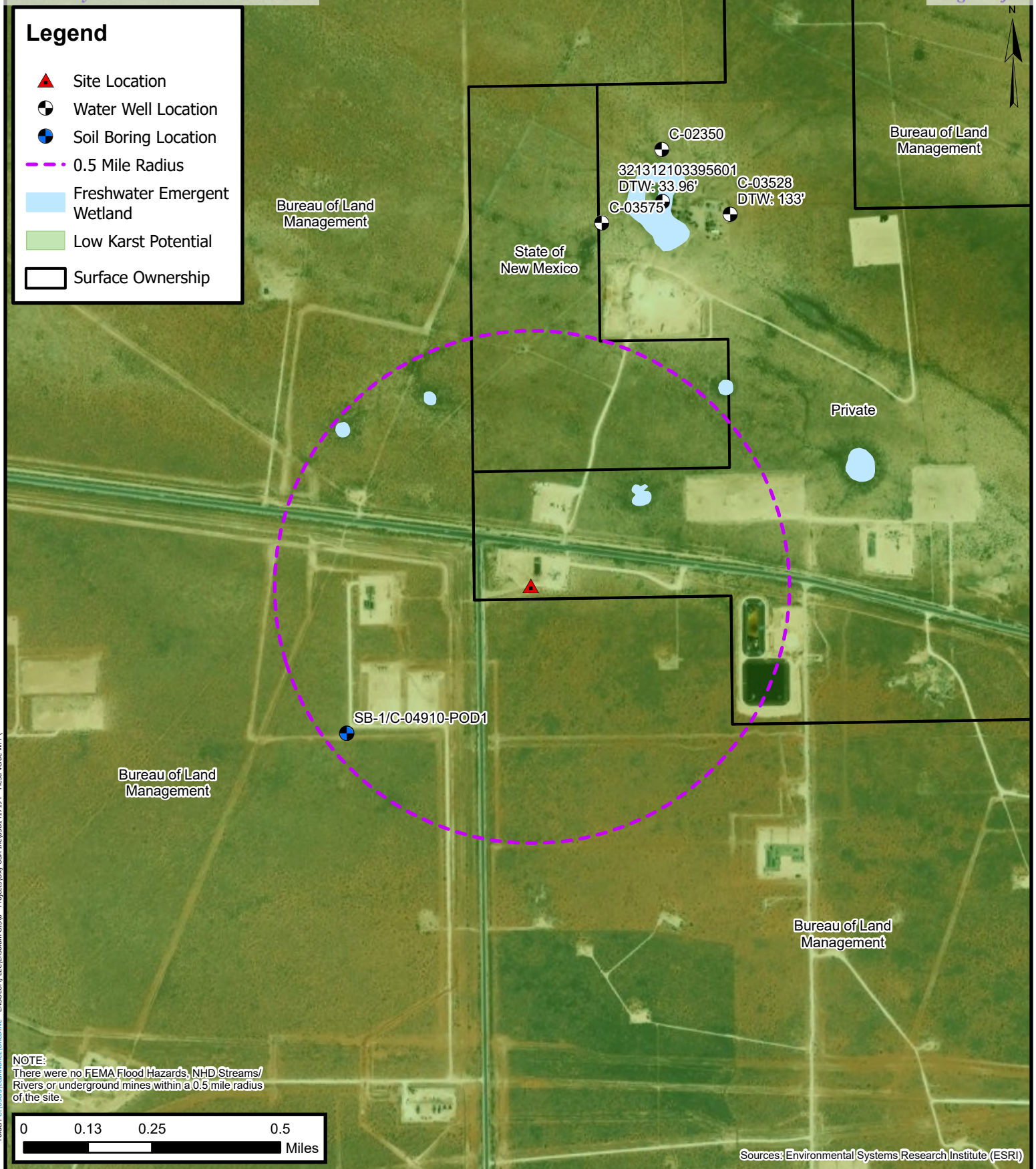
FIGURE

2



Site Map
 Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 Project Number: 03B1417194
 32.21428, -103.66918
 Lea County, New Mexico

FIGURE
3



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Closure Criteria Map
 Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 Project Number: 03B1417194
 32.21428, -103.66918
 Lea County, New Mexico

FIGURE
4



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa Verde Water Polishing Facility
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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Lateral Delineation Soil Sample Analytical Results										
DS01*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS02*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS03*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS04*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS05*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS06*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS07*	11/22/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS08*	09/12/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
Excavation Floor Soil Sample Analytical Results										
FS01*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS02*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS03	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	24.0
	10/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS04	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS05*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS06	06/18/2025	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,680
	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS07*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS08	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	06/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,660
FS09*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS10	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,630
FS11	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
	10/20/2025	4	<0.050	<0.300	<10.0	21.5	10.2	21.5	31.7	3,800
FS12	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
	06/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,070
FS13	06/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,880
FS14*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS15*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS16*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS17*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS18*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS19	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS20	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
FS21	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,420
FS22	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,360

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa Verde Water Polishing Facility
Oxy USA Inc.
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS23	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,480
FS24	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS25	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,920
FS26	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
FS27	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS28	10/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS29	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,640
FS30	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS31*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS32*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS33*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496
FS34	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,050
FS35	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,720
FS36	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
FS37	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,200
FS38	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
FS39	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,120

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Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS40	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,520
FS41*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS42	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,720
FS43*	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
FS44	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840
FS45	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,080
FS46	06/04/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,400
	09/12/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	19,400
FS47	06/03/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	832
FS48	06/03/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	352
FS49	06/03/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS50	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,120
FS51	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	46.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,010

TABLE 1
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 Oxy USA Inc.
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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS52	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS53	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS54	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	46.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,960
FS55	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	06/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
FS56	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
	06/03/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,110
FS57	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	460
	06/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,600
FS58	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	06/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960
FS59	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
	06/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,120
FS60	12/10/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	06/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,160
FS61*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa Verde Water Polishing Facility
Oxy USA Inc.
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS62	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,960
FS63	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,440
FS64	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
FS65	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	05/20/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,920
FS66	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,400
FS67	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,960
FS68	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	05/19/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,840
FS69*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS70*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS71*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS72*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS73	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,600

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS74	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,800
FS75	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,200
FS76*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS77*	12/11/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS78	04/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,400
FS79	04/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,480
FS80	04/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,800
FS81*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS82*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS83*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS84*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS85*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS86	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
FS87	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,300
FS88	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
	04/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,360

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS89*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS90	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
	05/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS91	04/09/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,080
FS92	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	384
	05/06/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,600
FS93	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	05/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,240
FS94*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS95*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS96*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS97	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	05/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,320
FS98	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	05/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,280
FS99*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS100*	12/18/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS101*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
FS102*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS103*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS104*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS105*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS106	03/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,930
FS107	03/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,860
FS108*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS109*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS110*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	272
FS111*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS112*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS113*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS114*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
FS115	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736
FS116	04/10/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,140
FS117	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,760
FS118*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
CS119	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS120*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS121*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS122*	03/28/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS123*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS124	03/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	752
FS125*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS126*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS127*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS128*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS129*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS130*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS131*	03/28/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS132*	03/28/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS133	04/07/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,360
FS134	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,380
FS135*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS136	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	544
	04/08/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS137	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
	03/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	992
FS138*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
FS139*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS140	03/05/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	3,280
FS141*	03/24/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS142*	03/03/2025	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS143	06/17/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS144	10/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS145	10/22/2025	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
Excavation Sidewall Soil Sample Analytical Results										
SW01*	03/05/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SW02*	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	480
SW03*	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
SW04*	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW05*	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	240
SW06*	04/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SW07*	04/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
SW08*	05/08/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SW09*	05/09/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	464
SW10*	04/10/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560

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NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW11*	05/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
	09/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW12*	05/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
SW13*	05/09/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW14*	05/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	432
SW15*	06/06/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW16*	06/05/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
SW17*	06/05/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW18*	06/03/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW19*	06/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,280
	10/22/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW20*	06/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	10,400
	09/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SW21*	09/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW22*	09/12/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
SW23*	10/21/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW24*	10/22/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW25*	10/21/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW26*	10/20/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Mesa Verde Water Polishing Facility
Oxy USA Inc.
Lea County, New Mexico

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
SW27*	10/21/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SW28*	11/05/2025	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code
TPH: Total Petroleum Hydrocarbon
ORO: Oil Range Organics
DRO: Diesel Range Organics
GRO: Gasoline Range Organics

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.
Grey text represents samples that have been excavated

TABLE 2 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS Mesa Verde Water Polishing Facility Oxy USA Inc. Lea County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Pasture Backfill Soil Sample Analytical Result										
MEC Pit	12/12/2025	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
Pad Backfill Soil Sample Analytical Result										
Owl Landfill	12/12/2025	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NE: Not Established
NA: Not Applicable
NMOCD: New Mexico Oil Conservation Division
NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
TPH: Total Petroleum Hydrocarbon
ORO: Oil Range Organics
DRO: Diesel Range Organics
GRO: Gasoline Range Organics



APPENDIX A

Supporting Documentation



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
R356740000

October 8, 2024

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: MCCLOY SWD 2
Sec 15, TS 24S, RE 32E
Lea County, New Mexico

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time OXY USA INC will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

Crisha A. Morgan
Certified Environmental Protection Specialist



Re: [EXTERNAL] AFMSS BLM Access Request - McCloy SWD #002

From Morgan, Crisha A <camorgan@blm.gov>
Date Tue 2024-10-08 12:24 PM
To Georgiana McSwane <gmcswane@ensolum.com>
Cc Hadlie Green <hgreen@ensolum.com>

2 attachments (530 KB)
20241008 MCCLOY SWD 2-St Engineer Office drilling approval.pdf; 20241008 Form 3160-5- McCloy SWD #002 - Signed.pdf;

[**EXTERNAL EMAIL**]

Bureau of Land Management



Attached is the signed letter required by the New Mexico Office of the State Engineer for soil boring to accomplish depth to groundwater determination. Please consider this the BLM's approval to move forward. If you have any questions, or need anything further, please let me know.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned & Idled Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



WARNING: This document is FOR OFFICIAL USE ONLY (FOUO). It contains information that may be exempt from public release under the Freedom of Information Act (5.U.S.C. 552). It is to be controlled, stored, handled, transmitted, distributed, and disposed of in accordance with Department of Interior (DOI) policy relating to FOUO information and is not to be released to the public or other personnel who do not have need-to-know without prior approval of an authorized DOI official. FOR OFFICIAL USE ONLY

From: Georgiana McSwane <gmcswane@ensolum.com>
Sent: Monday, October 7, 2024 2:12 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Cc: Hadlie Green <hgreen@ensolum.com>
Subject: [EXTERNAL] AFMSS BLM Access Request - McCloy SWD #002

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hi Crisha,

Please see the attached documents requesting access to BLM land to install a soil boring to confirm depth to water. The proposed location is in a COG Production, LLC right of way. Oxy is requesting access to install (1) soil boring on pad to assist with depth to water determination for McCloy SWD #002 (nAPP2217848858). The soil boring will be backfilled following NMOSE plugging procedures. Please see attached documents for review:

- Sundry Form 3160
- Site Map to include proposed borehole location
- Kmz

Please let me know if you have any questions. Once we receive access, we will proceed with submitting OSE permits.

Thank you,



Georgiana McSwane

Project Manager

254-459-2338

Ensolum, LLC

in f 

File No. C-4910 Pod 1

NEW MEXICO OFFICE OF THE STATE ENGINEER



**WR-07 APPLICATION FOR PERMIT TO DRILL
A WELL WITH NO WATER RIGHT**



(check applicable boxes):

For fees, see State Engineer website: <https://www.ose.nm.gov/>

Purpose:	<input type="checkbox"/> Pollution Control And/Or Recovery	<input type="checkbox"/> Ground Source Heat Pump
<input type="checkbox"/> Exploratory Well*(Pump test)	<input type="checkbox"/> Construction Site/Public Works Dewatering	<input checked="" type="checkbox"/> Other(Describe):
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Mine Dewatering	

A separate permit will be required to apply water to beneficial use regardless if use is consumptive or nonconsumptive.

*New Mexico Environment Department-Drinking Water Bureau (NMED-DWB) will be notified if a proposed exploratory well is used for public water supply.

Yes No Angled/Directional borehole - include schematic and azimuth, inclination, measured depth and true vertical depth.

Temporary Request - Requested Start Date: 11/01/2024 Requested End Date: 12/01/2024

Plugging Plan of Operations Submitted? Yes No

Note: if there is known artesian conditions, contamination or high mineral content at the drilling location, include the borehole log or a well log from an existing well at that location. If this information is not submitted, check box and attach form WD-09 to this form.

1. APPLICANT(S)

Name: <u>Oxy USA Inc.</u>	Name: <u>Ensolum, LLC</u>
Contact or Agent: <u>Mr. Wade Dittrich</u> <input checked="" type="checkbox"/> check here if Agent	Contact or Agent: <u>Ms. Kelly Lowery</u> <input type="checkbox"/> check here if Agent
Mailing Address: <u>PO BOX 4294</u>	Mailing Address: <u>601 N. Marienfeld St. Suite 400</u>
City: <u>Houston</u>	City: <u>Midland</u>
State: <u>TX</u> Zip Code: <u>77210</u>	State: <u>TX</u> Zip Code: <u>79701</u>
Phone: <u>575-390-2828</u> <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell	Phone: <u>214-733-3165</u> <input type="checkbox"/> Home <input checked="" type="checkbox"/> Cell
E-mail (optional): <u>wade_dittrich@oxy.com</u>	E-mail (optional): <u>klowery@ensolum.com</u>

OSE OIT ROSWELL NM
31 OCT '24 13:24

FOR OSE INTERNAL USE Application for Permit, Form WR-07, Rev 10/02/2024

File No.: <u>C-4910</u>	Trn. No.: <u>770915</u>	Receipt No.: <u>2-47451</u>
Trans Description (optional): <u>EXPL</u>		
Sub-Basin: <u>CUB</u>	PCW/LOG Due Date: <u>11-13-2025</u>	

2. WELL(S) Describe the well(s) applicable to this application.

Location Required: Coordinate location must be reported in NM State Plane (NAD 83), UTM (NAD 83), or Latitude/Longitude (Lat/Long - WGS84). District II (Roswell), District V (Aztec) and District VII (Cimarron) customers, provide a PLSS location in addition to above.

NM State Plane (NAD83) (Feet) UTM (NAD83) (Meters) Lat/Long (WGS84) (to the nearest 1/10th of second)
 NM West Zone Zone 12N
 NM East Zone Zone 13N
 NM Central Zone

Well Number (if known):	X or Easting or Longitude:	Y or Northing or Latitude:	-Public Land Survey System (PLSS) (QQQSection, Township, Range) OR - Hydrographic Survey Map & Tract; OR - Lot, Block & Subdivision; OR - Land Grant Name	Well Depth in feet	Casing Diameter (OD)
C-4910 Pod1 POD1 (SB-1)	-103.702513	32.223325	NW 1/4 of NW 1/4 D17 T24S R32E	110'	6"

NOTE: If more well locations need to be described, complete form WR-08 (Attachment 1 – POD Descriptions)
 Additional well descriptions are attached: Yes No If yes, how many _____

Other description relating well to common landmarks, streets, or other:
 Soil boring is approximately 214 ft southwest of State HW 128 adjacent to an Oxy ROW.
 Well is on land owned by: BLM

Well Information: NOTE: If casings telescope or involve nested casing, please provide diagram. Attached? Yes No

Approximate depth to water (feet): TBD

Driller Name: West Texas Water Well Service - Ronny Leith Driller License Number: WD-1184

3. ADDITIONAL STATEMENTS OR EXPLANATIONS

The investigation soil boring will be advanced to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.223325, -103.702513) will be located on the pipeline ROW northwest of and within 0.5-mile from the Mesa Verde 18 CTB (Incident ID:nAPP2409552342) Site (GPS Coordinates: 32.220935, -103.699223) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow infill of groundwater, if any. Following the 72 hour waiting period, the soil boring will be assessed utilizing a water level meter to confirm the presence or absence and depth to groundwater. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures.

OSE DII ROSWELL N.M.
31 OCT '24 PM 3:24

FOR OSE INTERNAL USE Application for Permit, Form WR-07 Version 10/02/2024

File No.: C-4910	Trn No.: 770915
------------------	-----------------

4. SPECIFIC REQUIREMENTS: The applicant must include the following, as applicable to each well type. Please check the appropriate boxes, to indicate the information has been included and/or attached to this application:

<p>Exploratory*: Is proposed well a future public water supply well? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NO If Yes, an application must be filed with NMED-DWB, concurrently. <input type="checkbox"/> Include a description of any proposed pump test, if applicable.</p>	<p>Pollution Control and/or Recovery: <input type="checkbox"/> Include a plan for pollution control/recovery, that includes the following: <input type="checkbox"/> A description of the need for the pollution control or recovery operation. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The annual diversion amount. <input type="checkbox"/> The annual consumptive use amount. <input type="checkbox"/> The maximum amount of water to be diverted and injected for the duration of the operation. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> The method of measurement of water produced and discharged. <input type="checkbox"/> The source of water to be injected. <input type="checkbox"/> The method of measurement of water injected. <input type="checkbox"/> The characteristics of the aquifer. <input type="checkbox"/> The method of determining the resulting annual consumptive use of water and depletion from any related stream system. <input type="checkbox"/> Proof of any permit required from the New Mexico Environment Department. <input type="checkbox"/> An access agreement if the applicant is not the owner of the land on which the pollution plume control or recovery well is to be located.</p>	<p>Construction De-Watering: <input type="checkbox"/> Include a description of the proposed dewatering operation, <input type="checkbox"/> The estimated duration of the operation, <input type="checkbox"/> The maximum amount of water to be diverted, <input type="checkbox"/> A description of the need for the dewatering operation, and, <input type="checkbox"/> A description of how the diverted water will be disposed of. Ground Source Heat Pump: <input type="checkbox"/> Include a description of the geothermal heat exchange project, <input type="checkbox"/> The number of boreholes for the completed project and required depths. <input type="checkbox"/> The time frame for constructing the geothermal heat exchange project, and, <input type="checkbox"/> The duration of the project. <input type="checkbox"/> Preliminary surveys, design data, and additional information shall be included to provide all essential facts relating to the request.</p>	<p>Mine De-Watering: <input type="checkbox"/> Include a plan for Mine De-Watering, that includes the following: <input type="checkbox"/> A description of the need for mine dewatering. <input type="checkbox"/> The estimated maximum period of time for completion of the operation. <input type="checkbox"/> The source(s) of the water to be diverted. <input type="checkbox"/> The geohydrologic characteristics of the aquifer(s). <input type="checkbox"/> The maximum amount of water to be diverted per annum. <input type="checkbox"/> The maximum amount of water to be diverted for the duration of the operation. <input type="checkbox"/> The quality of the water. <input type="checkbox"/> The method of measurement of water diverted. <input type="checkbox"/> The recharge of water to the aquifer. <input type="checkbox"/> Description of the estimated area of hydrologic effect of the project. <input type="checkbox"/> The method and place of discharge. <input type="checkbox"/> An estimation of the effects on surface water rights and underground water rights from the mine dewatering project. <input type="checkbox"/> A description of the methods employed to estimate effects on surface water rights and underground water rights. <input type="checkbox"/> Information on existing wells, rivers, springs, and wetlands within the area of hydrologic effect.</p>
--	---	---	---

(* if exploration or monitoring drilling activity is required by NMED, then you must also submit the NMED Work Plan)

ACKNOWLEDGEMENT

I, We (name of applicant(s)), Kelly Lowery, Wade Dittrich

Print Name(s)

affirm that the foregoing statements are true to the best of (my,our) knowledge and belief.

Kelly Lowery
Applicant Signature

Wade Dittrich
Applicant Signature

ACTION OF THE STATE ENGINEER

This application is:
 approved partially approved denied

provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in the State of New Mexico nor detrimental to the public welfare and further subject to the attached conditions of approval.

Witness my hand and seal this 13th day of November 2024, for the State Engineer

Elizabeth K. Anderson, P.E., State Engineer



By: K. Parekh Kashyap Parekh
Signature Print
Title: Water Resources Manager I
Print

FOR OSE INTERNAL USE

Application for Permit, Form WR-07 Version 10/02/2024

File No.: <u>C-4910</u>	Trn No.: <u>770915</u>
-------------------------	------------------------

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL

- 17-16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.
- 17-1A Depth of the well shall not exceed the thickness of the valley fill.
- 17-4 No water shall be appropriated and beneficially used under this permit.
- 17-6 The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable and approved by the state engineer. The well shall be plugged with an office of the state engineer approved sealant for use in the plugging of non-artesian wells. The well driller shall cut the casing off at least four (4) feet below ground surface and fill the open hole with at least two vertical feet of approved sealant. The driller must fill or cover any open annulus with sealant. Once the sealant has cured, the well driller or well owner may cover the seal with soil. A Plugging Report for said well shall be filed with the Office of the State Engineer in a District Office within 30 days of completion of the plugging.

Trn Desc: C 04910 POD1

File Number: C 04910

Trn Number: 770915

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 17-B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- 17-C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record.
The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- 17-C2 No water shall be diverted from this well except for testing purposes which shall not exceed ten (10) cumulative days, and well shall be plugged or capped on or before , unless a permit to use water from this well is acquired from the Office of the State Engineer.
- 17-G If artesian water is encountered, the well driller shall comply with all rules and regulations pertaining to the drilling and casing of artesian wells.
- 17-P The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

Trn Desc: C 04910 POD1

File Number: C 04910

Trn Number: 770915

NEW MEXICO STATE ENGINEER OFFICE
PERMIT TO EXPLORE

SPECIFIC CONDITIONS OF APPROVAL (Continued)

- 17-Q The State Engineer retains jurisdiction over this permit.
- 17-R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.
- LOG The Point of Diversion C 04910 POD1 must be completed and the Well Log filed on or before 11/13/2025.

IT IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

ACTION OF STATE ENGINEER

Notice of Intention Rcvd:	Date Rcvd. Corrected:
Formal Application Rcvd: 10/31/2024	Pub. of Notice Ordered:
Date Returned - Correction:	Affidavit of Pub. Filed:

This application is approved provided it is not exercised to the detriment of any others having existing rights, and is not contrary to the conservation of water in New Mexico nor detrimental to the public welfare of the state; and further subject to the specific conditions listed previously.

Witness my hand and seal this 13 day of Nov A.D., 2024

Elizabeth K. Anderson, P.E., State Engineer

By: K. Parekh
KASHYAP PAREKH



Trn Desc: C 04910 POD1

File Number: C 04910
Trn Number: 770915

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 770915
File Nbr: C 04910

Nov. 13, 2024

WADE DITTRICH
OXY USA INC.
P.O. BOX 4294
HOUSTON, TX 77210

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
- * If the final intended purpose and condition requires a well ID tag and meter installation, the applicant must immediately send a completed meter report form to this office.
- * The well record and log must be submitted within 30 days of the completion of the well or if the attempt was a dry hole.
- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

Sincerely,

A handwritten signature in cursive script that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore

Elizabeth K. Anderson, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 770915
File Nbr: C 04910

Nov. 13, 2024

KELLY LOWERY
ENSOLUM, LLC
601 N MARIENFELD ST. STE 400
MIDLAND, TX 79701

Greetings:

Your approved copy of the above numbered permit to drill a well for non-consumptive purposes is enclosed. You must obtain an additional permit if you intend to use the water. It is your responsibility to provide the contracted well driller with a copy of the permit that must be made available during well drilling activities.

Carefully review the attached conditions of approval for all specific permit requirements.

- * If use of this well is temporary in nature and the well will be plugged at the end of the well usage, the OSE must initially approve of the plugging. If plugging approval is not conditioned in this permit, the applicant must submit a Plugging Plan of Operations for approval prior to the well being plugged. The Plugging Record must be properly completed and submitted to the OSE within 30 days of the well plugging.
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- * This permit expires and will be cancelled if no well is drilled and/or a well log is not received by the date set forth in the conditions of approval.

Appropriate forms can be downloaded from the OSE website www.ose.state.nm.us.

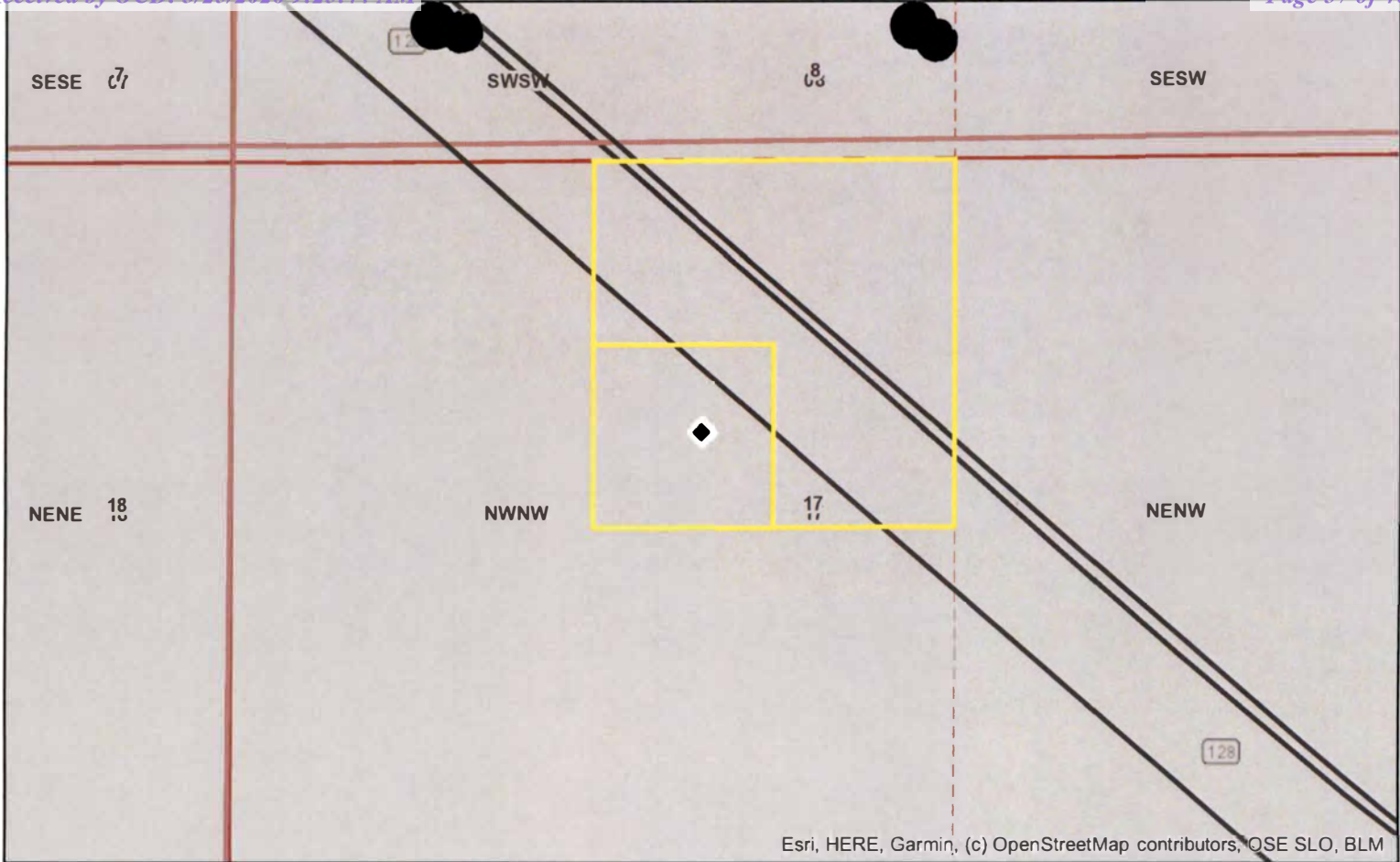
Sincerely,

A handwritten signature in cursive script that reads "Vanessa Clements".

Vanessa Clements
(575) 622-6521

Enclosure

explore



Esri, HERE, Garmin, (c) OpenStreetMap contributors, QSE SLO, BLM

Coordinates

UTM - NAD 83 (m) - Zone 13
 Easting 622262.011
 Northing 3565927.670

State Plane - NAD 83 (f) - Zone E
 Easting 736413.372
 Northing 445550.167

Degrees Minutes Seconds
 Latitude 32 : 13 : 23.970000
 Longitude -103 : 42 : 9.046800

Location pulled from Coordinate Search

NEW MEXICO OFFICE
 OF THE
 STATE ENGINEER

1:4,514

N



11/13/2024



Reasonable efforts have been made by the New Mexico Office of the State Engineer (OSE) to verify that these maps accurately represent the source data used in their preparation. However, a degree of error is inherent in all maps and these maps may contain omissions and errors in scale, resolution, and/or content. These maps are distributed "as is" without warranty of any kind.

Spatial Information
 Land Grant: Not in Land Grant
 County: Lea
 Groundwater Basin: Carlsbad
 Abstract Area:
 Carlsbad 72-12-1
 Carlsbad Underground Basin

Regulation Area:
 Carlsbad/Capitan/Lea Closure
PLSS Description
 SWNENWNW Qtr of Sec 17 of 024S 032E

Derived from CADNSDI- Qtr Sec. locations are calculated and are only approximations

Parcel Information
 UPC/DocNum:
 Parcel Owner:
 Address:null null null

Legal:

POD Information
 Owner:
 File Number:
 POD Status: NoData
 Permit Status: NoData
 Permit Use: NoData
 Purpose:

- | | | | | | | | |
|---|---|--|---|---|---|---|---|
| <input type="checkbox"/> Calculated PLSS | <input type="checkbox"/> Bernalillo County Parcels 2024 | <input type="checkbox"/> De Baca County Parcels 2024 | <input type="checkbox"/> Harding County Parcels 2024 | <input type="checkbox"/> McKinley County Parcels 2024 | <input type="checkbox"/> Roosevelt County Parcels 2024 | <input type="checkbox"/> Santa Fe County Parcels 2024 | <input type="checkbox"/> Valencia County Parcels 2024 |
| <input type="checkbox"/> Coord Search Location | <input type="checkbox"/> Catron County Parcels 2024 | <input type="checkbox"/> Doña Ana County Parcels 2024 | <input type="checkbox"/> Hidalgo County Parcels 2024 | <input type="checkbox"/> Mora County Parcels 2024 | <input type="checkbox"/> Sandoval County Parcels 2024 | <input type="checkbox"/> Sierra County Parcels 2024 | <input type="checkbox"/> Sections |
| <input type="checkbox"/> Closure Area | <input type="checkbox"/> Chaves County Parcels 2024 | <input type="checkbox"/> Eddy County Parcels 2024 | <input type="checkbox"/> Lea County Parcels 2024 | <input type="checkbox"/> Otero County Parcels 2024 | <input type="checkbox"/> San Juan County Parcels 2024 | <input type="checkbox"/> Socorro County Parcels 2024 | <input type="checkbox"/> BLM Land Grant |
| <input type="checkbox"/> Artesian Planning Area | <input type="checkbox"/> Cibola County Parcels 2024 | <input type="checkbox"/> Grant County Parcels 2024 | <input type="checkbox"/> Lincoln County Parcels 2024 | <input type="checkbox"/> Quay County Parcels 2024 | <input type="checkbox"/> San Miguel County Parcels 2024 | <input type="checkbox"/> Taos County Parcels 2024 | |
| <input type="checkbox"/> OSE District Boundary | <input type="checkbox"/> Colfax County Parcels 2024 | <input type="checkbox"/> Guadalupe County Parcels 2024 | <input type="checkbox"/> Los Alamos County Parcels 2024 | <input type="checkbox"/> Rio Arriba County Parcels 2024 | <input type="checkbox"/> Union County Parcels 2024 | <input type="checkbox"/> Torrance County Parcels 2024 | |
| | <input type="checkbox"/> Curry County Parcels 2024 | <input type="checkbox"/> Luna County Parcels 2024 | <input type="checkbox"/> Santa Fe County Parcels 2024 | | | | |

Form 3160-5
(June 2015)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires January 31, 2018

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No. **NMNM016353**

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

7. If Unit of CA/Agreement, Name and/or No.
NMNM105557826

1. Type of Well
 Oil Well Gas Well Other
Soil boring for determination of depth to groundwater

8. Well Name and No. **Mesa Verde 18 CTB**

2. Name of Operator **Oxy USA, Inc.**

9. API Well No.

3a. Address **619 East Jemez, Hobbs NM 88240**

3b. Phone No. (include area code)
(575) 390-2828

10. Field and Pool or Exploratory Area

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
D-17-24S-32E Latitude: 32.223325, Longitude: -103.702513

11. Country or Parish, State
Lea County, New Mexico

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION				
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon		
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation. Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Oxy USA, Inc. (Oxy) requests to advance a soil boring to a depth of approximately 110 feet below ground surface for determination of regional groundwater depth. The soil boring (proposed location 32.223325, -103.702513) will be located on the pipeline ROW northwest of and within 0.5-mile from the Mesa Verde 18 CTB (Incident ID:nAPP2409552342) Site (GPS Coordinates: 32.220935, -103.699223) on BLM surface. The soil boring will be left open for approximately 72 hours to allow for the slow inflow of groundwater, if any. Following the 72 hour waiting period, Oxy will assess the boring utilizing a water level meter to confirm the presence or absence and depth to groundwater in the soil boring. Following the 72 hour waiting period, the soil boring will be backfilled following the approved New Mexico Office of the State Engineer plugging procedures. A site map and kmz depicting the location of the Site and the proposed soil boring location are included with this Form 3160-5.

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) **Wade Dittrich** Title **Environmental Advisor**

Signature *Wade Dittrich* Date **9-18-24**

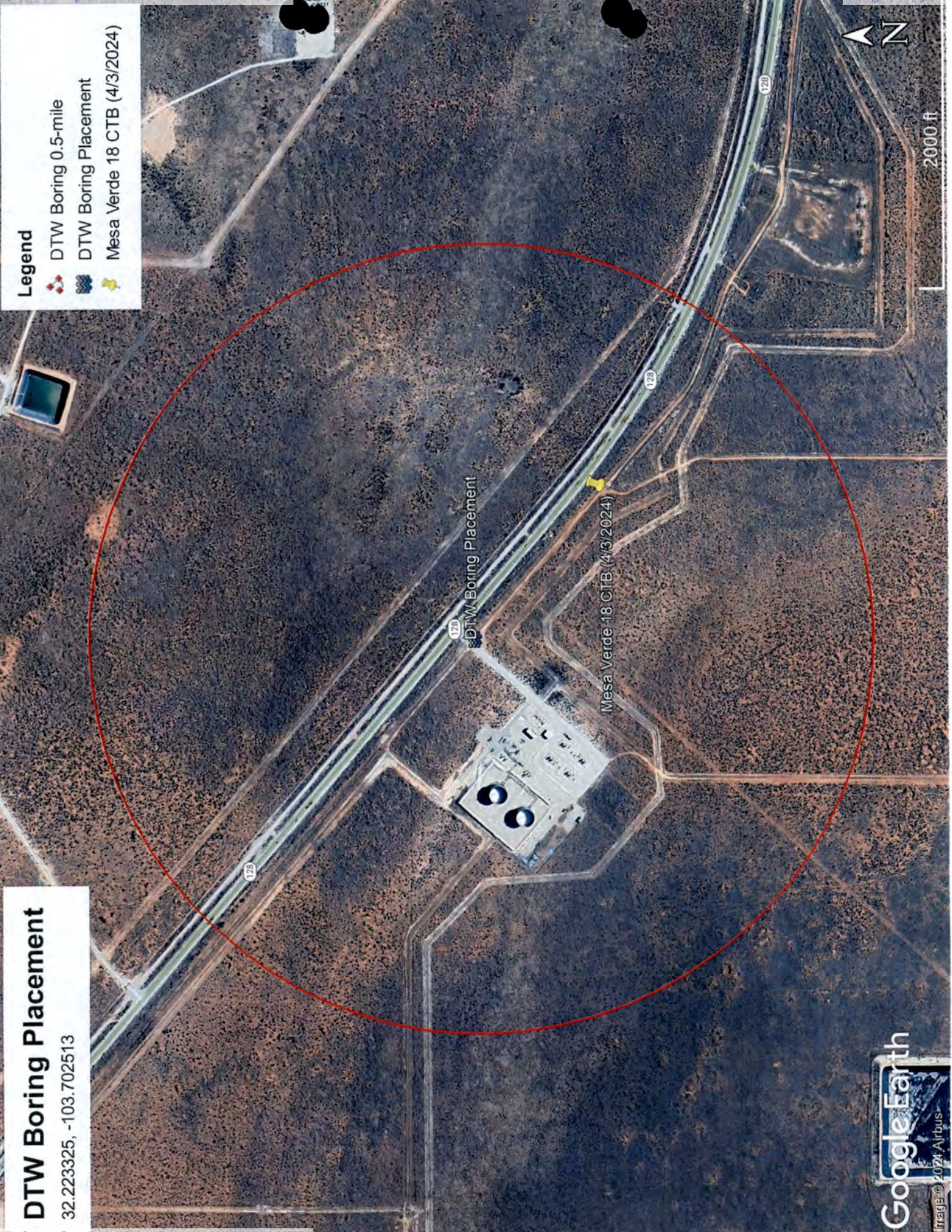
THE SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **CRISHA MORGAN** Digitally signed by **CRISHA MORGAN**
 Title **CRISHA MORGAN** Date: **2024.10.29 08:35:55 -06'00'**
 Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
 Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)




USE DIST. NO. 1004-0137
31 OCT '20 08:37:24



DTW Boring Placement

32.223325, -103.702513

Legend

-  DTW Boring 0.5-mile
-  DTW Boring Placement
-  Mesa Verde 18 CTB (4/3/2024)





United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292

In Reply Refer To:
3162.4 (NM-080)
NMNM016353/NMNM105557826

October 29, 2024

NM Office of the State Engineer
1900 W. Second St.
Roswell, NM 88201

Re: MESA VERDE 18 CTB
Sec 17, TS 24S, RE 32E
Lea County, New Mexico
32.223325, -103.702513

To Whom It May Concern:

The above well location and the immediate area mentioned above requires advanced soil boring to take place at approximately 110 feet below ground surface. The boring will be secured and left open for 72 hours at which time OXY USA INC will assess for the presence or absence of groundwater. Temporary PVC well material will be placed to total depth of the boring and secured at the surface. If water is encountered at any point during the boring, installation of the soil boring will be plugged using Portland Type 1/11 neat cement less than 6.0 gallons of water per 94lb sack. If no water is encountered, then the soil boring will be plugged. The Bureau of Land Management (landowner) authorizes the access of the area to accomplish depth to groundwater determination of this site.

If you have any questions contact Crisha Morgan, at 575-234-5987.

Sincerely,

CRISHA MORGAN

Digitally signed by CRISHA
MORGAN
Date: 2024.10.29 08:32:59 -06'00'

Crisha A. Morgan
Certified Environmental Protection Specialist

OGE 011 ROSWELL, NM
OCT 29 2024



WELL PLUGGING PLAN OF OPERATIONS



NOTE: A Well Plugging Plan of Operations shall be filed with and accepted by the Office of the State Engineer prior to plugging. This form may be used to plug a single well, or if you are plugging multiple monitoring wells on the same site using the same plugging methodology.

Alert! Your well may be eligible to participate in the Aquifer Mapping Program (AMP)-NM Bureau of Geology geoinfo.nmt.edu/resources/water/cgmn/ if within an area of interest and meets the minimum construction requirements, such as there is still water in your well, and the well construction reflected in a well record and log is not compromised, contact AMP at 575-835-5038 or -6951, or by email ambg-waterlevels@nmt.edu, prior to completing this prior form. Showing proof to the OSE that your well was accepted in this program, may delay the plugging of your well until a later date.

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

II. GENERAL / WELL OWNERSHIP: Check here if proposing one plan for multiple monitoring wells on the same site and attaching WD-08m

Existing Office of the State Engineer POD Number (Well Number) for well to be plugged. C-4910-POD1
Name of well owner: Oxy USA Inc.
Mailing address: PO Box 4294 County: Harris
City: Houston State: TX Zip code: 77210
Phone number: 575-309-2828 E-mail: wade_ditrich@oxy.com

III. WELL DRILLER INFORMATION:

Well Driller contracted to provide plugging services: West Texas Drilling Services
New Mexico Well Driller License No.: WD# 1184 Expiration Date: 2/16/25

IV. WELL INFORMATION: Check here if this plan describes method for plugging multiple monitoring wells on the same site and attach supplemental form WD-08m and skip to #2 in this section.

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

1) GPS Well Location: Latitude: 32 deg, 12 min, 32.6264 sec
Longitude: -103 deg, 40 min, 31.6488 sec, NAD 83

2) Reason(s) for plugging well(s):

Investigative soil boring to determine groundwater level.

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

4) Does the well tap brackish, saline, or otherwise poor quality water? N/A If yes, provide additional detail, including analytical results and/or laboratory report(s):

5) Static water level: unknown feet below land surface / feet above land surface (circle one)

6) Depth of the well: 110 feet

- 7) Inside diameter of innermost casing: 2 inches.
- 8) Casing material: N/A
- 9) The well was constructed with:
 - an open-hole production interval, state the open interval: N/A
 - a well screen or perforated pipe, state the screened interval(s): N/A
- 10) What annular interval surrounding the artesian casing of this well is cement-grouted? N/A
- 11) Was the well built with surface casing? No If yes, is the annulus surrounding the surface casing grouted or otherwise sealed? _____ If yes, please describe:
- 12) Has all pumping equipment and associated piping been removed from the well? N/A If not, describe remaining equipment and intentions to remove prior to plugging in Section VII of this form.

V. DESCRIPTION OF PLANNED WELL PLUGGING: If plugging method differs between multiple wells on same site, a separate form must be completed for each method.

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

Also, if this planned plugging plan requires a variance to 19.27.4 NMAC, attach a detailed variance request signed by the applicant.

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

If no water is encountered, drill cuttings will be used to ten feet below ground surface (bgs) and plugged using hydrated bentonite. If groundwater is encountered the boring will be plugged, tremie from the bottom to a slurry of Portland Type I/II cement lifts
- 2) Will well head be cut-off below land surface after plugging? N/A

VI. PLUGGING AND SEALING MATERIALS:

Note: The plugging of a well that taps poor quality water may require the use of a specialty cement or specialty sealant. Attach a copy of the batch mix recipe from the cement company and/or product description for specialty cement mixes or any sealant that deviates from the list of OSE approved sealants.

- 1) For plugging intervals that employ cement grout, complete and attach Table A.
- 2) For plugging intervals that will employ approved non-cement based sealant(s), complete and attach Table B.
- 3) Theoretical volume of grout required to plug the well to land surface: 287
- 4) Type of Cement proposed: Type I/II
- 5) Proposed cement grout mix: <6.0 gallons of water per 94 pound sack of Portland cement.
- 6) Will the grout be: _____ batch-mixed and delivered to the site
 x mixed on site

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

N/A

8) Additional notes and calculations:

N/A

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

N/A

VIII. SIGNATURE:

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

Georgiana McSwane Digitally signed by Georgiana McSwane
Date: 2024.10.16 13:42:09 -05'00'

10/16/2024

Signature of Applicant

Date

IX. ACTION OF THE STATE ENGINEER:

This Well Plugging Plan of Operations is:

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

Witness my hand and official seal this 12th day of November, 2024

Elizabeth K. Anderson P.E.
_____, New Mexico State Engineer

By: K. Parekh
Kashyap Parekh



Water Resources Manager I

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of grout placement (ft bgl)	N/A	N/A	0
Bottom of proposed interval of grout placement (ft bgl)	N/A	N/A	100
Theoretical volume of grout required per interval (gallons)	N/A	N/A	287
Proposed cement grout mix gallons of water per 94-lb. sack of Portland cement	N/A	N/A	<6.0
Mixed on-site or batch-mixed and delivered?	N/A	N/A	ONSITE
Grout additive 1 requested	N/A	N/A	N/A
Additive 1 percent by dry weight relative to cement	N/A	N/A	N/A
Grout additive 2 requested	N/A	N/A	N/A
Additive 2 percent by dry weight relative to cement	N/A	N/A	N/A

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

	Interval 1 – deepest	Interval 2	Interval 3 – most shallow
			Note: if the well is non-artesian and breaches only one aquifer, use only this column.
Top of proposed interval of sealant placement (ft bgl)	N/A	N/A	0
Bottom of proposed sealant or grout placement (ft bgl)	N/A	N/A	10
Theoretical volume of sealant required per interval (gallons)	N/A	N/A	26
Proposed abandonment sealant (manufacturer and trade name)	N/A	N/A	BAROID HOLD PLUG

DSE OJI ROSWELL, NM
5 NOV '24 PM 1:25



Office of the State Engineer State of New Mexico

DISTRICT 2 OFFICE

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

Applicant has identified a well, listed below, to be plugged. West Texas Drilling Services (WD-1184) will perform the plugging.

Permittee: OXY USA Inc.
NMOSE Permit Number: C-4910-POD1

NMOSE File	Casing diameter (inches)	Well depth (feet bgl)	Approximate static water level (feet bgl)	Latitude	Longitude
C-4910-POD1	6.0 (Borehole)	110.0	Unknown	32° 12' 32.6264"	103° 40' 31.6488"

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

1. Water well drilling and well drilling activities, including well plugging, are regulated under 19.27.4 NMAC, which requires any person engaged in the business of well drilling within New Mexico to obtain a Well Driller License issued by the New Mexico Office of the State Engineer (NMOSE). Therefore, the firm of a New Mexico licensed Well Driller shall perform the well plugging.

2. Ground Water encountered: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 161.50 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 110.0 feet.

3. Dry Hole: The total Theoretical volume of sealant required for abandonment of soil boring well is approximately 14.68 gallons. Total minimum volume of necessary sealant shall be calculated upon sounding the actual pluggable depth of well, which is estimated at 10 feet.

4. Ground Water encountered: Type I/II Portland cement mixed with 5.2 to 6.0 gallons of fresh water per 94-lb sack of cement is approved for the plugging the well.

5. Dry Hole: (a) Drill cuttings up to ten feet of land surface. (b) 10 feet to 0 feet – Hydrated bentonite. The bentonite shall be hydrated separately with its required increments of water prior to being mixed into the cement slurry.

6. Sealant shall be placed by pumping through a tremie pipe extended to near well bottom and kept below top of the slurry column as the well is plugged from bottom-upwards in a manner that displaces the standing water column upwards from below. Tremie pipe may be pulled as necessary to retain minimal submergence in the advancing column of sealant.

7. Should cement “shrinks-back” occur in the well, use of a tremie for topping off is required for cement placement deeper than 20 feet below land surface or if water is present in the casing. The approved sealant for topping off is identified in condition 4. and 5. of these Specific Conditions of Approval.

8. Any open annulus encountered surrounding the casing shall also be sealed by the placement of the approved sealant. When plugging shallow wells with no construction or environmental concerns, and if the well record on a well to be plugged shows a proper 20-foot annular seal, a plugging plan can propose the use of clean fill material to a nominal 30 feet bgs, then placing an OSE approved sealant to surface. Lacking that information, we would require an excavation of at least 2-feet which shall then be filled in its entirety with sealant to surface.

9. Should the NMED, or another regulatory agency sharing jurisdiction of the project authorize, or by regulation require a more stringent well plugging procedure than herein acknowledged, the more-stringent procedure should be followed. This, in part, includes provisions regarding pre-authorization to proceed, contaminant remediation, inspection, pulling/perforating of casing, or prohibition of free discharge of any fluid from the borehole during or related to the plugging process.

10. NMOSE witnessing of the plugging of the soil boring will not be required.

11. Any deviation from this plan must obtain an approved variance from this office prior to implementation.

12. A Well Plugging Record itemizing actual abandonment process and materials used shall be filed with the State Engineer within 30 days after completion of well plugging. For the plugging record, please resurvey coordinate location for well and note coordinate system for GPS unit. Please attach a copy of these plugging conditions.

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

Witness my hand and seal this 12th day of November 2024

Elizabeth K. Anderson, P.E. State Engineer



By: K. Parekh

Kashyap Parekh
Water Resources Manager I

MICHELLE LUJAN GRISHAM
GOVERNOR



ELIZABETH K. ANDERSON, P.E.
STATE ENGINEER

State of New Mexico
Office of the State Engineer

DISTRICT 2 OFFICE

November 12, 2024

OXY USA Inc.
P.O. Box 4294
Houston, TX 77210

RE: Well Plugging Plan of Operations for well No. C-4910-POD1

Greetings:

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

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

Sincerely,

Handwritten signature of K. Parekh in black ink.

Kashyap Parekh
Water Resources Manager I

1900 WEST SECOND STREET, ROSWELL, NM 88201
(575) 622/6521 FAX (575) 623-8559

WWW.OSE.STATE.NM.GOV



SOIL BORING LOG SB-1

PROJECT NUMBER 03B1417194	DRILLING DATE 12/09/2024	COORDINATES 32.210174, -103.675458
PROJECT NAME Mesa Verde WPF	TOTAL DEPTH 105' bgs	PLSS LOCATION NW 1/4 of NE 1/4 of Unit B
CLIENT Oxy USA Inc	DIAMETER 2.5"	PLSS LOCATION (CONT) Section 21 T24S R32E
DRILLER West Texas Water Well Service	CASING 2" TEMPORARY PVC	COMPLETION Plugged after 72 hrs
LICENCE NO. WD-1184	SCREEN 10' SLOTTED PVC	WELL TOC NA

COMMENTS Temporary casing removed after 72 hrs. The borehole was backfilled with cuttings (3'-105') and plugged with Quikrete (0-3') 72 hrs after drilling. No groundwater was observed.
LOGGED BY Nicolas Christakos
CHECKED BY Kelly Lowery

Water	Moisture	Depth (ft)	Graphic Log	Material Description	Well Diagram
		10		Gravelly sand, pale white/brown, non-cohesive, non-plastic, non-uniform, some gravel, dry, no odor	
		20		Clayey sand, light brown, very fine-fine grained, non-cohesive, non-plastic, non-uniform, few gravel, dry, no odor	
		30		Sandy clay, reddish brown, very fine to fine grained, non-cohesive, non-plastic, unoxidized, dry, no odor	
		40		Sandy clay, brown, very fine to fine grained, non-cohesive, non-plastic, unoxidized, dry, no odor	
		50		Sandy clay, reddish brown, non-cohesive, non-plastic, trace gravel, dry, no odor	
		60			
		70			
		80			
		90			
		100			
		110		TD: 105'	

Disclaimer This bore log is intended for environmental not geotechnical purposes.



RE: [EXTERNAL] Mesa Verde WPF - nAPP2217848858

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>

Date Mon 2025-06-30 3:25 PM

To Georgiana McSwane <gmcswane@ensolum.com>

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

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to September 29, 2025 within the incident page. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

The OCD requires a copy of all correspondence related to remedial activities be included in all proposals, weekly/monthly/quarterly/semi-annual/annual, or final closure reports. Correspondence reporting requirements may include, but not limited to, time extension requests, sample event notifications, and variance requests.

If you have any questions, please contact me via email at your convenience.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/oecd>



From: Rodgers, Scott, EMNRD

Sent: Monday, June 30, 2025 8:42 AM

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

Subject: FW: [EXTERNAL] Mesa Verde WPF - nAPP2217848858

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Georgiana McSwane <gmcswane@ensolum.com>
Sent: Monday, June 30, 2025 8:35 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Subject: [EXTERNAL] Mesa Verde WPF - nAPP2217848858

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

Hello,

On behalf of Oxy USA, Inc, Ensolum, LLC would like to request a 90-day extension for the Mesa Verde WPF (nAPP2217848858).

Based on the analytical results, additional excavation activities were necessary. As a result, delays were encountered due to several factors, including the concentration of underground lines, volume of impacted material as well as proximity to a BLM fence line. Excavation and remediation activities are still ongoing at the site.

Therefore, we humbly ask for an extension so that we may complete the remediation activities as well as draft and review the report before submitting the final copy to the portal. Please let us know if you have any questions.

Thank you so much for your time!



Georgiana McSwane

Project Manager

254-459-2338

Ensolum, LLC





RE: [EXTERNAL] (Extension Request) Oxy - Mesa Verde WPF (API: 30-025-42947/Incident ID: nAPP2217848858) - 6/3/2022

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Date Mon 9/29/2025 5:31 PM
To Kelly Lowery <klowery@ensolum.com>
Cc daniel_sparks@oxy.com <daniel_sparks@oxy.com>; Kent, Jessica <jessica_kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>

[**EXTERNAL EMAIL**]

Your time extension request is approved. Remediation Due date has been updated to December 29, 2025 within the incident page. Please note that this is an incident from 2022 and this is the second and final extension request approval. Ensure that the site characterization/assessment report has been completed and is provided within the final closure report.

Please keep a copy of this communication for inclusion within the appropriate reporting documentation.

If you have any questions, please contact me via email at your convenience.

Thank you,
Scott

Scott Rodgers • Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
<http://www.emnrd.nm.gov/ocd>



From: Kelly Lowery <klowery@ensolum.com>
Sent: Monday, September 29, 2025 3:43 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Sparks, Daniel (DANOS LLC) <daniel_sparks@oxy.com>; Kent, Jessica <jessica_kent@oxy.com>; Beaux Jennings <bjennings@ensolum.com>
Subject: [EXTERNAL] (Extension Request) Oxy - Mesa Verde WPF (API: 30-025-42947/Incident ID: nAPP2217848858) - 6/3/2022

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

Good evening,

On behalf of Oxy USA, Inc. (Oxy) Ensolum, LLC (Ensolum) would like to request a 90-day extension for the Mesa Verde WPF (API: 30-025-42947/Incident ID: nAPP2217848858) that occurred on 6/3/2022. Excavation efforts are ongoing at the Site but have been paused due to proximity to nearby equipment and active roadways/pathways making it difficult to progress safely. We have just received results from the latest sampling event which indicates we may proceed with backfilling certain areas so we can access and address the remaining impacted locations in a manner that does not impede upon the surrounding oilfield activities or cause unsafe work environments. We humbly ask that the OCD grants this request so that we may continue to stay within compliance.

Thank you,



Kelly Lowery, GIT

Project Geologist

214-733-3165

Ensolum, LLC

in f 



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
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Groundwater levels for New Mexico

Click to hide state-specific text

Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs

site_no list =
• 321312103395601

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 321312103395601 24S.32E.10.344333

Lea County, New Mexico

Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83

Land-surface elevation 3,589.00 feet above NGVD29

The depth of the well is 60 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1950-04-13			D	62610	3555.36	NGVD29	1	Z			A
1950-04-13			D	62611	3557.09	NAVD88	1	Z			A
1950-04-13			D	72019	33.64		1	Z			A
1955-06-03			D	62610	3557.10	NGVD29	P	Z			A
1955-06-03			D	62611	3558.83	NAVD88	P	Z			A
1955-06-03			D	72019	31.90		P	Z			A
1976-01-22			D	62610	3557.20	NGVD29	1	Z			A
1976-01-22			D	62611	3558.93	NAVD88	1	Z			A
1976-01-22			D	72019	31.80		1	Z			A
1981-03-20			D	62610	3569.07	NGVD29	1	Z			A
1981-03-20			D	62611	3570.80	NAVD88	1	Z			A
1981-03-20			D	72019	19.93		1	Z			A
1986-03-18			D	62610	3551.84	NGVD29	1	Z			A
1986-03-18			D	62611	3553.57	NAVD88	1	Z			A
1986-03-18			D	72019	37.16		1	Z			A
1991-05-29			D	62610	3549.36	NGVD29	1	Z			A
1991-05-29			D	62611	3551.09	NAVD88	1	Z			A
1991-05-29			D	72019	39.64		1	Z			A
1996-03-14			D	62610	3550.80	NGVD29	1	S			A
1996-03-14			D	62611	3552.53	NAVD88	1	S			A
1996-03-14			D	72019	38.20		1	S			A
2001-02-27			D	62610	3552.42	NGVD29	1	S			A
2001-02-27			D	62611	3554.15	NAVD88	1	S			A
2001-02-27			D	72019	36.58		1	S			A
2006-02-07	16:30 UTC		m	62610	3569.60	NGVD29	1	S	USGS	S	A
2006-02-07	16:30 UTC		m	62611	3571.33	NAVD88	1	S	USGS	S	A
2006-02-07	16:30 UTC		m	72019	19.40		1	S	USGS	S	A
2010-12-16	22:30 UTC		m	62610	3555.04	NGVD29	1	S	USGS	S	A
2010-12-16	22:30 UTC		m	62611	3556.77	NAVD88	1	S	USGS	S	A
2010-12-16	22:30 UTC		m	72019	33.96		1	S	USGS	S	A

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	P	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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 [U.S. Geological Survey](#)

Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2024-06-12 10:48:58 EDT

0.27 0.22 nadww02



APPENDIX B

Photographic Log



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858

Date & Time: Fri, Nov 22, 2024 at 12:59:22 MST
Position: +032.213888° / -103.670461° (±7.4ft)
Altitude: 3593ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 099° S81° E 1760mils True (±11°)
Elevation Angle: +11.5°
Horizon Angle: -00.5°
Zoom: 0.5X
Mesa Verde WPP



Date & Time: Fri, Nov 22, 2024 at 13:00:19 MST
Position: +032.213975° / -103.670102° (±6.6ft)
Altitude: 3597ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 105° S75° E 1867mils True (±11°)
Elevation Angle: -00.7°
Horizon Angle: -01.3°
Zoom: 0.5X
Mesa Verde WPP



Photograph: 1 Date: 11/22/2024
Description: Release Extent during Delineation Activities
View: Southeast

Photograph: 2 Date: 11/22/2024
Description: Release Extent during Delineation Activities
View: Southeast

Date & Time: Fri, Nov 22, 2024 at 13:01:19 MST
Position: +032.214061° / -103.669468° (±6.6ft)
Altitude: 3604ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 074° N74° E 1316mils True (±11°)
Elevation Angle: +06.5°
Horizon Angle: -00.1°
Zoom: 0.5X
Mesa Verde WPP



Date & Time: Fri, Nov 22, 2024 at 13:01:38 MST
Position: +032.214124° / -103.669309° (±9.5ft)
Altitude: 3605ft (±9.8ft)
Datum: WGS-84
Azimuth/Bearing: 312° N48° W 5547mils True (±11°)
Elevation Angle: +11.8°
Horizon Angle: +01.3°
Zoom: 0.5X
Mesa Verde WPP



Photograph: 3 Date: 11/22/2024
Description: Release Extent during Delineation Activities
View: Northeast

Photograph: 4 Date: 11/22/2024
Description: Release Extent during Delineation Activities
View: Northwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 5 Date: 12/9/2024
Description: DTW Temporary Boring (SB-1)
View: South



Photograph: 6 Date: 12/9/2024
Description: DTW Temporary Boring (SB-1)
View: South



Photograph: 7 Date: 12/10/2024
Description: DTW Temporary Boring (SB-1) P&A
View: Northwest



Photograph: 8 Date: 12/10/2024
Description: DTW Temporary Boring (SB-1) P&A
View: Northwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 9 Date: 12/19/2025
Description: Excavation Activities
View: Southwest

Photograph: 10 Date: 12/19/2025
Description: Excavation Activities
View: West



Photograph: 11 Date: 3/3/2025
Description: Excavation Activities
View: Southwest

Photograph: 12 Date: 3/3/2025
Description: Excavation Activities
View: North

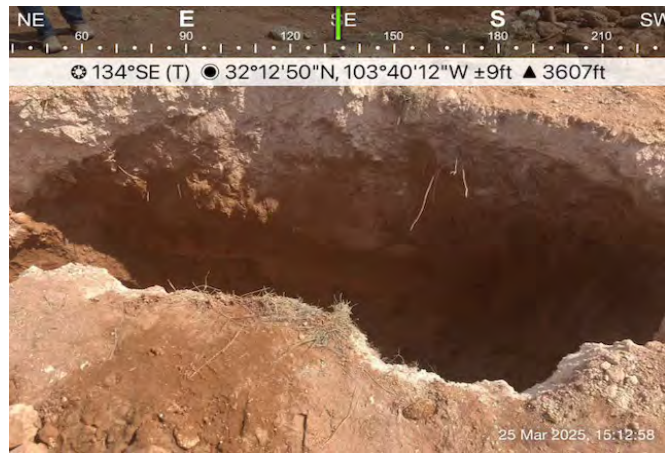


Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 13 Date: 3/5/2025
Description: Excavation Activities
View: Southwest

Photograph: 14 Date: 3/5/2025
Description: Excavation Activities
View: Southwest



Photograph: 15 Date: 3/25/2025
Description: Daylight & Excavation Activities
View: Southeast

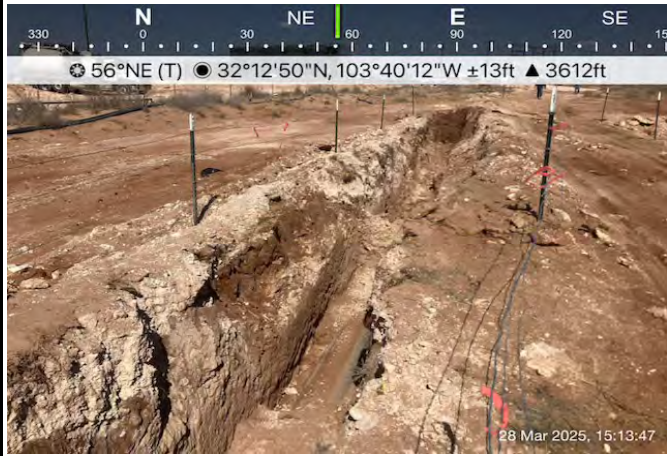
Photograph: 16 Date: 3/26/2025
Description: Excavation Activities
View: Southwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 17 Date: 3/28/2025
Description: Daylight & Excavation Activities
View: West



Photograph: 18 Date: 3/28/2025
Description: Daylight & Excavation Activities
View: Northeast



Photograph: 19 Date: 4/7/2025
Description: Excavation Activities
View: West



Photograph: 20 Date: 4/7/2025
Description: Excavation Activities
View: Northwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858

South West Elevation

☉ 23°NE (T) ● 32°12'49"N, 103°40'11"W ±9ft ▲ 3606ft



06 May 2025, 15:43:21

East Elevation

☉ 251°W (T) ● 32°12'50"N, 103°40'10"W ±9ft ▲ 3610ft



06 May 2025, 15:42:55

Photograph: 21 Date: 5/6/2025
Description: Excavation Activities
View: Northeast

Photograph: 22 Date: 5/6/2025
Description: Excavation Activities
View: West

West Elevation

☉ 87°E (T) ● 32°12'50"N, 103°40'11"W ±9ft ▲ 3608ft



08 May 2025, 15:59:02

North East Elevation

☉ 238°SW (T) ● 32°12'50"N, 103°40'10"W ±13ft ▲ 3600ft



08 May 2025, 15:58:24

Photograph: 23 Date: 5/8/2025
Description: Excavation Activities
View: East

Photograph: 24 Date: 5/8/2025
Description: Excavation Activities
View: Southwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858

North East Elevation

☉ 229°SW (T) ● 32°12'50"N, 103°40'11"W ±6ft ▲ 3611ft



08 May 2025, 13:58:45

South Elevation

☉ 338°N (T) ● 32°12'49"N, 103°40'11"W ±9ft ▲ 3602ft



09 May 2025, 13:31:36

Photograph: 25 Date: 5/8/2025
Description: Excavation Activities
View: Southwest

Photograph: 26 Date: 5/9/2025
Description: Excavation Activities
View: North

South West Elevation

☉ 30°NE (T) ● 32°12'49"N, 103°40'11"W ±13ft ▲ 3604ft



09 May 2025, 13:31:44

South East Elevation

☉ 319°NW (T) ● 32°12'50"N, 103°40'10"W ±16ft ▲ 3609ft



19 May 2025, 14:58:00

Photograph: 27 Date: 5/9/2025
Description: Excavation Activities
View: Northeast

Photograph: 28 Date: 5/19/2025
Description: Excavation Activities
View: Northwest



Photographic Log

Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 29 Date: 5/20/2025
Description: Excavation Activities
View: Southwest

Photograph: 30 Date: 5/20/2025
Description: Excavation Activities
View: Southwest



Photograph: 31 Date: 6/3/2025
Description: Excavation Activities
View: East

Photograph: 32 Date: 6/3/2025
Description: Excavation Activities
View: Northeast



Photographic Log
 Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 nAPP2217848858

East Elevation

☉ 255°SW (T) • 32.214129, -103.669119 ±3m



04 Jun 2025, 3:01:22 PM

Photograph: 33 Date: 6/4/2025
 Description: Excavation Activities
 View: Southwest

South Elevation

☉ 358°N (T) • 32.214011, -103.669212 ±3m



04 Jun 2025, 3:01:35 PM

Photograph: 34 Date: 6/4/2025
 Description: Excavation Activities
 View: North

South Elevation

☉ 322°NW (T) • 32.213983, -103.669419 ±3m



05 Jun 2025, 2:02:49 PM

Photograph: 35 Date: 6/5/2025
 Description: Excavation Activities
 View: Northwest

West Elevation

☉ 55°NE (T) • 32.213904, -103.669627 ±3m



05 Jun 2025, 2:03:13 PM

Photograph: 36 Date: 6/5/2025
 Description: Excavation Activities
 View: Northeast



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858

East Elevation

270°W (T) • 32.214049, -103.669179 ±3m



16 Jun 2025, 1:59:08 PM

East Elevation

310°NW (T) • 32.21401, -103.669339 ±3m



16 Jun 2025, 1:59:28 PM

Photograph: 37 Date: 6/6/2025
Description: Excavation Activities
View: West

Photograph: 38 Date: 6/6/2025
Description: Excavation Activities
View: Northwest

North Elevation

164°SE (T) • 32.214214, -103.669228 ±3m



17 Jun 2025, 3:06:54 PM

South Elevation

329°NW (T) • 32.214051, -103.669176 ±3m



17 Jun 2025, 3:07:26 PM

Photograph: 39 Date: 6/17/2025
Description: Excavation Activities
View: Southeast

Photograph: 40 Date: 6/17/2025
Description: Excavation & Hydrovac Activities
View: Northwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858

East Elevation

291°W (T) • 32.214351, -103.669 ±7m



19 Jun 2025 2:43:24 PM

South Elevation

346°NW (T) • 32.213989, -103.669267 ±5m



19 Jun 2025 2:43:40 PM

Photograph: 41 Date: 6/19/2025
Description: Excavation Activities
View: West

Photograph: 42 Date: 6/19/2025
Description: Excavation Activities
View: Northwest

West Elevation

94°E (T) • 32.214177, -103.669451 ±3m



20 Jun 2025 2:37:24 PM

East Elevation

244°SW (T) • 32.214206, -103.669278 ±3m



20 Jun 2025 2:37:48 PM

Photograph: 43 Date: 6/20/2025
Description: Excavation Activities
View: East

Photograph: 44 Date: 6/20/2025
Description: Excavation Activities
View: Southwest



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 45 Date: 9/12/2025
Description: Excavation Activities
View: Southeast

Photograph: 46 Date: 9/12/2025
Description: Excavation Activities
View: West



Photograph: 47 Date: 10/20/2025
Description: Excavation Activities
View: Southwest

Photograph: 48 Date: 10/20/2025
Description: Excavation Activities
View: South



Photographic Log
Oxy USA Inc.
Mesa Verde Water Polishing Facility
nAPP2217848858



Photograph: 49 Date: 10/21/2025
Description: Excavation Activities
View: East

Photograph: 50 Date: 10/21/2025
Description: Excavation Activities
View: East



Photograph: 51 Date: 10/22/2025
Description: Partially Backfilled Extent
View: Southeast

Photograph: 52 Date: 10/22/2025
Description: Excavation Activities
View: Southwest



Photographic Log
 Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 nAPP2217848858

Date & Time: Wed, Nov 05, 2025 at 10:02:57 MST
 Position: 32.214228° N / 103.669412° W (±13.9ft)
 Altitude: 3604ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 272° N88W 4836mils True (±13°)
 Elevation Angle: -19.5°
 Horizon Angle: -01.0°
 Zoom: 0.5X



Date & Time: Wed, Nov 05, 2025 at 10:03:10 MST
 Position: 32.214222° N / 103.669370° W (±14.7ft)
 Altitude: 3604ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 217° S39W 3858mils True (±13°)
 Elevation Angle: -14.1°
 Horizon Angle: +02.5°
 Zoom: 0.5X



Photograph: 53 Date: 11/5/2025
 Description: Sampling Activities (SW28)
 View: Northwest

Photograph: 54 Date: 11/5/2025
 Description: Sampling Activities (SW28)
 View: Southwest

South West

☉ 256°SW (T) • 32.214235, -103.669268 ±4m



12 Dec 2025 10:07:40 AM

West

☉ 260°W (T) • 32.214247, -103.669232 ±4438m



12 Dec 2025 10:09:29 AM

Photograph: 55 Date: 12/12/2025
 Description: Backfill Extent
 View: Southwest

Photograph: 56 Date: 12/12/2025
 Description: Backfill Extent
 View: West



Photographic Log

Oxy USA Inc.
 Mesa Verde Water Polishing Facility
 nAPP2217848858



Photograph: 57 Date: 12/12/2025
 Description: Backfill Extent
 View: West

Photograph: 58 Date: 12/12/2025
 Description: Backfill Extent
 View: East



Photograph: 59 Date: 12/12/2025
 Description: Backfill Extent
 View: South

Photograph: 60 Date: 12/12/2025
 Description: Backfill Extent
 View: Southwest



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 27, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 14:19.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 01 0.5' (H247187-01)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148		
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514		
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 02 0.5' (H247187-02)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	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	11/26/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/26/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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*=Accredited Analyte

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 03 0.5' (H247187-03)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	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	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 04 0.5' (H247187-04)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148		
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514		
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 05 0.5' (H247187-05)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	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	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 06 0.5' (H247187-06)

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	11/26/2024	ND	2.09	105	2.00	2.46		
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92		
Total BTEX	<0.300	0.300	11/26/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148		
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514		
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND						

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 07 0.5' (H247187-07)

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	11/26/2024	ND	1.99	99.5	2.00	0.766		
Toluene*	<0.050	0.050	11/26/2024	ND	2.05	102	2.00	1.50		
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.03	101	2.00	1.69		
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.02	100	6.00	1.60		
Total BTEX	<0.300	0.300	11/26/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148		
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514		
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND						

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

Notes and Definitions

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

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: *Georgiana McGuire*
 Address: *601 N. Marland STE 400*
 City: *Midland* State: *TX* Zip: *79701*
 Phone #: *(854) 459-2338* Fax #: *—*
 Project #: *0381417144* Project Owner:
 Project Name: *Mesa Verde WPF*
 Project Location: *Lea County, NM*
 Sampler Name: *Lea Water*

P.O. #:
 Company: *DXV USA*
 Attn: *Tyson Pierce*
 Address:
 City:
 State:
 Zip:
 Phone #:
 Fax #:
 PRESERV:
 DATE:
 TIME:
 SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :										
<i>HA-118-7</i>																				
<i>1</i>	<i>DS01</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>						<i>11/23/24</i>	<i>1105</i>	<i>X</i>	<i>BTEX 8021</i>	<i>X</i>	<i>TPH 8015</i>	<i>X</i>	<i>Chloride 4500</i>	<i>300</i>	<i>TE-11/22/24</i>
<i>2</i>	<i>DS02</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1110</i>	<i>X</i>	<i>X</i>	<i>X</i>					
<i>3</i>	<i>DS03</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1115</i>	<i>X</i>	<i>X</i>	<i>X</i>					
<i>4</i>	<i>DS04</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1120</i>	<i>X</i>	<i>X</i>	<i>X</i>					
<i>5</i>	<i>DS05</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1125</i>	<i>X</i>	<i>X</i>	<i>X</i>					
<i>6</i>	<i>DS06</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1130</i>	<i>X</i>	<i>X</i>	<i>X</i>					
<i>7</i>	<i>DS07</i>	<i>0.5'</i>	<i>G</i>	<i>1</i>	<i>X</i>							<i>1135</i>	<i>X</i>	<i>X</i>	<i>X</i>					

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Relinquished By: *[Signature]*
 Date: *11-23-24*
 Time: *11:09:34*

Received By: *[Signature]*
 Date: *11/19*
 Time: *11:19*

Checked By: *[Signature]*

Turnaround Time: Standard Rush
 Thermometer ID: *4413#140*
 Correction Factor: *0.10°C*
 Bacteria (only) Cool Intact Yes No
 Sample Condition Observed Temp. °C Corrected Temp. °C

Delivered By: (Circle One) UPS Bus Other
 Observed Temp. °C: *3.1°C*
 Corrected Temp. °C: *3.5°C*
 Remarks: *Ensolum@Ensolum.com / Hygreen@Ensolum.com*
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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

December 18, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/11/24 16:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 42 0.5' (H247510-01)

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	12/12/2024	ND	2.27	114	2.00	4.30	
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	288	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 85.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 41 0.5' (H247510-02)

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	12/12/2024	ND	2.27	114	2.00	4.30	
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	304	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 33 0.5' (H247510-03)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	496	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 93.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 03 0.5' (H247510-04)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 01 0.5' (H247510-05)

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	12/12/2024	ND	2.27	114	2.00	4.30	
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 97.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 08 0.5' (H247510-06)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 91.9 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 07 0.5' (H247510-07)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 02 0.5' (H247510-08)

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	12/12/2024	ND	2.27	114	2.00	4.30	
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 05 0.5' (H247510-09)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 99.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 09 0.5' (H247510-10)

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	12/12/2024	ND	2.27	114	2.00	4.30		
Toluene*	<0.050	0.050	12/12/2024	ND	2.31	115	2.00	3.87		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.24	112	2.00	4.01		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.98	116	6.00	3.77		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	12/12/2024	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	12/12/2024	ND	199	99.6	200	2.37		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	179	89.3	200	4.13		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 43 0.5' (H247510-11)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 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	256	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 40 0.5' (H247510-12)

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	12/12/2024	ND	1.81	90.5	2.00	8.41	
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 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	640	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 14 0.5' (H247510-13)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 45 0.5' (H247510-14)

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	12/12/2024	ND	1.81	90.5	2.00	8.41	
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 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	176	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 12 0.5' (H247510-15)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 19 0.5' (H247510-16)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 30 0.5' (H247510-17)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 36 0.5' (H247510-18)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 18 0.5' (H247510-19)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 31 0.5' (H247510-20)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 119 % 48.2-134

Surrogate: 1-Chlorooctadecane 128 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 11 0.5' (H247510-21)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 32 0.5' (H247510-22)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 17 0.5' (H247510-23)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 122 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 15 0.5' (H247510-24)

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	12/12/2024	ND	1.81	90.5	2.00	8.41	
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72	
Total BTEX	<0.300	0.300	12/12/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 123 % 48.2-134

Surrogate: 1-Chlorooctadecane 127 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 16 0.5' (H247510-25)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 121 % 48.2-134

Surrogate: 1-Chlorooctadecane 126 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 51 0.5' (H247510-26)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 123 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 50 0.5' (H247510-27)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 57 0.5' (H247510-28)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 116 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 52 0.5' (H247510-29)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 119 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 60 0.5' (H247510-30)

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	12/12/2024	ND	1.81	90.5	2.00	8.41		
Toluene*	<0.050	0.050	12/12/2024	ND	1.81	90.4	2.00	8.27		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	1.81	90.6	2.00	7.85		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	5.42	90.4	6.00	7.72		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	12/12/2024	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	12/12/2024	ND	192	96.1	200	0.176		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	176	87.8	200	0.321		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 54 0.5' (H247510-31)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 55 0.5' (H247510-32)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 53 0.5' (H247510-33)

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	12/12/2024	ND	2.18	109	2.00	5.71	
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07	
Total BTEX	<0.300	0.300	12/12/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 59 0.5' (H247510-34)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 58 0.5' (H247510-35)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	96.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/10/2024
Reported:	12/18/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 56 0.5' (H247510-36)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	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	640	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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

1054

Company Name: Essolum LLC
 Project Manager: Georgiana McSwane
 Address: 601 D. Merinfeld St. STE:400
 City: Midland State: TX Zip: 79701
 Phone #: (354) 459-2338 Fax #: -
 Project #: 03B1417194 Project Owner: -
 Project Name: Mesa Verde WPF
 Project Location: Len County, NM
 Sampler Name: Leah Porter
 P.O. #: _____ Company: DXV USA
 Address: _____ Attn: Tyson Pierce
 City: _____ State: _____ Zip: _____
 Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	X	X	X	X	X	X
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
1	FS49	0.5'	C	1			X					12/10/14	1035	X	X	X	X	X	X
2	FS41	0.5'	C	1			X					12/10/14	1031	X	X	X	X	X	X
3	FS33	0.5'	C	1			X					12/10/14	1030	X	X	X	X	X	X
4	FS03	0.5'	C	1			X					12/10/14	1029	X	X	X	X	X	X
5	FS01	0.5'	C	1			X					12/10/14	1029	X	X	X	X	X	X
6	FS08	0.5'	C	1			X					12/10/14	1028	X	X	X	X	X	X
7	FS07	0.5'	C	1			X					12/10/14	1028	X	X	X	X	X	X
8	FS00	0.5'	C	1			X					12/10/14	1050	X	X	X	X	X	X
9	FS05	0.5'	C	1			X					12/10/14	1055	X	X	X	X	X	X
10	FS09	0.5'	C	1			X					12/10/14	1056	X	X	X	X	X	X

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Relinquished By: _____ Date: 12-11-14 Time: 10:00
 Received By: APARAS
 Relinquished By: _____ Date: _____ Time: _____
 Received By: _____

Delivered By: (Circle One) Observed Temp. °C: 3.0 Sample Condition: Cool Intact CHECKED BY: AP
 Corrected Temp. °C: 3.0 Cool Intact: Yes No
 Sampler - UPS - Bus - Other: _____
 Turnaround Time: _____ Standard: RUSH Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: _____
 Thermometer ID #140 Correction Factor -0.5°C Yes No No No Corrected Temp. °C: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: Georgiana@Essolum.com, Hygreen@Essolum.com
 REMARKS: _____
 † Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum LLC
Project Manager: Georgiana Muesner
Address: 601 W. Maxwellfield St, STE 400
City: Midland State: TX Zip: 79701
Phone #: (354) 459-3338 Fax #: Project Owner:
Project #: 03B1417144
Project Name: mesa verde WPP
Project Location: les county, NM
Sampler Name: Lee W. STEE

P.O. #: Company: OXY USA
Attn: Tyson Pierce
Address:
City: State: Zip:
Phone #: Fax #:

FOR LAB USE ONLY
Lab I.D. Sample I.D. Depth
11 18A7510 FS43 0.5'
12 FS40
13 FS14
14 FS45
15 FS12
16 FS19
17 FS30
18 FS36
19 FS19
20 FS31

(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME
C	1			X							12/10/24	1038
				X								1039
				X								1104
				X								1219
				X								1107
				X								1109
				X								1203
				X								1211
				X								1108
				X							12/10/24	1204

BTEX 8021
TPH 8015
Chloride 4500

~~Valley Lab~~
MFC

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Relinquished By: [Signature]
Date: 12-11-24
Time: 11:34
Received By: [Signature]
Date: 12-11-24
Time: 11:34

Delivered By: (Circle One) Observed Temp. °C 3.02
Corrected Temp. °C 3.02
Sample Condition Cool Intact Yes Yes No No

Turnaround Time: Standard RUSH
Thermometer ID #140
Correction Factor -0.5°C
Bacteria (only) Sample Condition Cool Intact Yes Yes No No Corrected Temp. °C

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3 of 4

Company Name: <u>Ensolun LLC</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Margieana McSwane</u>		P.O. #:		Company: <u>DXR USA</u>	
Address: <u>601 N. Maricfield St. STE 400</u>		Attn: <u>Tyson Pierce</u>		Address:	
City: <u>Midland</u>		State: <u>TX</u> Zip: <u>79701</u>		City:	
Phone #: <u>(954) 459-3339</u>		Fax #:		State:	
Project #: <u>0381417194</u>		Project Owner:		City:	
Project Name: <u>Mesa Verde WPF</u>		State:		Zip:	
Project Location: <u>Lea County, NM</u>		Phone #:		Fax #:	
Sampler Name: <u>Lea BURFF</u>		MATRIX		PRESERV	
FOR LAB USE ONLY		(G)RAB OR (C)OMP.		DATE	
Lab I.D.		# CONTAINERS		TIME	
Sample I.D.		GROUNDWATER		BTEX 8021	
Depth		WASTEWATER		TPH 8015	
SOIL		OIL		Chlorides 4500	
SLUDGE		OTHER:		_____	
ACID/BASE:		ICE / COOL		_____	
OTHER:		SAMPLING		_____	

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	DATE	TIME	BTEX 8021	TPH 8015	Chlorides 4500	Other
01	FS11	0.5'	C	1	X		11/10/04	1100	X	X	X	
02	FS30		C	1	X			1105	X	X	X	
03	FS17		C	1	X			1107	X	X	X	
04	FS15		C	1	X			1105	X	X	X	
05	FS16		C	1	X			1106	X	X	X	
06	FS51		C	1	X			1025	X	X	X	
07	FS50		C	1	X			1024	X	X	X	
08	FS57		C	1	X			1031	X	X	X	
09	FS52		C	1	X			1026	X	X	X	
10	FS60	0.5'	C	1	X		11/10/04	1037	X	X	X	

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Relinquished By: [Signature] Date: 12-11-04 Time: 10:04 Received By: [Signature] Date: _____ Time: _____

Delivered By: (Circle One) Observed Temp. °C: 20.0 Corrected Temp. °C: 20.1 Sample Condition: Cool Intact Yes No Yes No CHECKED BY: (Initials) APD

Sampler - UPS - Bus - Other: _____ Turnaround Time: _____ Standard Bacteria (only) Sample Condition: Cool Intact Yes No Yes No Corrected Temp. °C: _____

Thermometer ID #140 Correction Factor -0.6°C

REMARKS: Meswank @ Ensolun LLC / Hygreen @ Ensolun LLC

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

FORM 0007-03-09/03/24 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4 of 4

Company Name: <u>Essulva LLC</u> Project Manager: <u>Georgina Medina</u> Address: <u>601 W. Maricfield St. STE400</u> City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u> Phone #: <u>(354) 459-2332</u> Fax #: <u>-</u> Project #: <u>0381417194</u> Project Owner: <u>-</u> Project Name: <u>Mesa Verde WPF</u> Project Location: <u>Lea County, NM</u> Sampler Name: <u>Lee West</u>		P.O. #: <u>-</u> Company: <u>ORV USA</u> Attn: <u>Tyson Pierce</u> Address: <u>-</u> City: <u>-</u> State: <u>-</u> Zip: <u>-</u> Phone #: <u>-</u> Fax #: <u>-</u>	
FOR LAB USE ONLY Lab I.D. <u>HB47510</u> Sample I.D. <u>Depth</u>		BILL TO # CONTAINERS MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : PRESERV SAMPLING	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the 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 reasons or otherwise.		DATE TIME 12/10/24 1229 1227 1236 1234 1230	
Relinquished By: <u>[Signature]</u> Date: <u>12/10/24</u> Time: <u>12:34</u>		Received By: <u>[Signature]</u> Date: <u>12/10/24</u> Time: <u>12:30</u>	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C Corrected Temp. °C Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Turnaround Time: Thermometer ID #140 Correction Factor -0.5°C		CHECKED BY: (Initials) Standard <input checked="" type="checkbox"/> <u>RUSH</u> Bacteria (only) <input type="checkbox"/> Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Sample Condition Observed Temp. °C Corrected Temp. °C	
REMARKS: <u>Measure @ Essulva.com, Hygreen @ Essulva.com</u>		Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address: 12/10/24	

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



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

December 17, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/11/24 16:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 61 0.5' (H247511-01)

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	12/12/2024	ND	2.18	109	2.00	5.71	
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07	
Total BTEX	<0.300	0.300	12/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 62 0.5' (H247511-02)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 63 0.5' (H247511-03)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.5 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 64 0.5' (H247511-04)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 65 0.5' (H247511-05)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	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	16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 66 0.5' (H247511-06)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 68 0.5' (H247511-07)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 69 0.5' (H247511-08)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 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	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 70 0.5' (H247511-09)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 105 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 71 0.5' (H247511-10)

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	12/12/2024	ND	2.18	109	2.00	5.71	
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07	
Total BTEX	<0.300	0.300	12/12/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 72 0.5' (H247511-11)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 105 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 74 0.5' (H247511-12)

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	12/12/2024	ND	2.18	109	2.00	5.71	
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33	
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86	
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07	
Total BTEX	<0.300	0.300	12/12/2024	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	32.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03	
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51	
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 76 0.5' (H247511-13)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/11/2024	Sampling Date:	12/11/2024
Reported:	12/17/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 77 0.5' (H247511-14)

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	12/12/2024	ND	2.18	109	2.00	5.71		
Toluene*	<0.050	0.050	12/12/2024	ND	2.11	105	2.00	6.33		
Ethylbenzene*	<0.050	0.050	12/12/2024	ND	2.15	107	2.00	3.86		
Total Xylenes*	<0.150	0.150	12/12/2024	ND	6.38	106	6.00	3.07		
Total BTEX	<0.300	0.300	12/12/2024	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	16.0	16.0	12/12/2024	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	12/12/2024	ND	209	105	200	1.03		
DRO >C10-C28*	<10.0	10.0	12/12/2024	ND	190	95.2	200	1.51		
EXT DRO >C28-C36	<10.0	10.0	12/12/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 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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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

1 of 2

Company Name: *Evolution LLC*
 Project Manager: *Georgia Prescott* *gmpres@evolution.com*
 Address: *601 W. Warwickfield St SE: 400*
 City: *Midland* State: *TX* Zip: *79701*
 Phone #: *(575) 459-2338* Fax #: *-*
 Project #: *03B1417194* Project Owner: *-*
 Project Name: *Mesa Verde WOF*
 Project Location: *Lea County, NM*
 Sampler Name: *Lea Purte*
 P.O. #: *DX USA*
 Company: *DX USA*
 Attn: *Tyson Pierce*
 Address: *-*
 City: *-*
 State: *-* Zip: *-*
 Phone #: *-*
 Fax #: *-*

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021	TPH 8015	Chloride 4500	LFE	ST	12/11/24
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:								
HA457511	FS61	0.5'	C	1	X	X	X	X	X	X	X	12/11/24	1138	X	X	X			
	FS62		C	1	X	X	X	X	X	X	X	12/11/24	1140	X	X	X			
	FS63		C	1	X	X	X	X	X	X	X	12/11/24	1142	X	X	X			
	FS64		C	1	X	X	X	X	X	X	X	12/11/24	1144	X	X	X			
	FS65		C	1	X	X	X	X	X	X	X	12/11/24	1146	X	X	X			
	FS66		C	1	X	X	X	X	X	X	X	12/11/24	1152	X	X	X			
	FS68		C	1	X	X	X	X	X	X	X	12/11/24	1154	X	X	X			
	FS69		C	1	X	X	X	X	X	X	X	12/11/24	1156	X	X	X			
	FS70		C	1	X	X	X	X	X	X	X	12/11/24	1158	X	X	X			
	FS71		C	1	X	X	X	X	X	X	X	12/11/24	1158	X	X	X			

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Relinquished By: *[Signature]* Date: *12/11/24* Time: *10:24*
 Received By: *[Signature]* Date: *12/11/24* Time: *10:24*
 Turnaround Time: Standard Rush
 Bacteria (only) Cool Intact Yes No
 Sample Condition Cool Intact Yes No
 Checked By: *[Signature]*
 Remarks: *Gmcsure@Evolution.com, HGreen@Evolution.com*

Delivered By: (Circle One) UPS Bus Other: *3.6°C*
 Observed Temp. °C: *3.0°C*
 Corrected Temp. °C: *3.0°C*
 Thermometer ID #140
 Correction Factor -0.6°C
 Add'l Phone #: *Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com*



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

2 of 2

Company Name: Enslun LLC P.O. #: _____
 Project Manager: Georgiana Meswane Company: OKY USA
 Address: 601 D. Marland St STE 1400 Attn: Tyson Pierce
 City: Midland State: TX Zip: 79701
 Phone #: (854) 459-2338 Fax #: _____
 Project #: 03BHT194 Project Owner: _____
 Project Name: Mesa Verde WFP City: _____ State: _____ Zip: _____
 Project Location: Lea County, NM Phone #: _____ Fax #: _____
 Sampler Name: Leah Nurre

Lab I.D.	Sample I.D.	Depth	(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX						PRESERV.		SAMPLING		DATE	TIME	ANALYSIS	REQUEST
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :									
<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 analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.</p>																				
HAUTB11	FS70	0.5'	C	1	X															
	FS34	0.5'	C	1	X															
	FS76	0.5'	C	1	X															
	FS77	0.5'	C	1	X															

Relinquished By: _____ Date: 12/11/24 Received By: _____
 Relinquished By: _____ Date: 12/11/24 Received By: _____
 Delivered By: (Circle One) Observed Temp. °C: 3.0 Sample Condition: Intact Cool Yes No
 Sampler - UPS - Bus - Other: Corrected Temp. °C: 3.0 Checked BY: (Initials) EP
 Turnaround Time: _____ Standard Bacteria (only) Sample Condition: Cool Intact Observed Temp. °C: _____
 Thermometer ID #140 Correction Factor -0.8°C Yes No Corrected Temp. °C: _____
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____
 REMARKS: Mesa Verde WFP
Enslun.com, Hgrem@enslun.com



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

December 27, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 92 0.5 (H247676-01)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	12/20/2024	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	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 93 0.5 (H247676-02)

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	12/20/2024	ND	1.89	94.6	2.00	3.59		
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30		
Total BTEX	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	12/20/2024	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	12/20/2024	ND	231	116	200	1.02		
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58		
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND						

Surrogate: 1-Chlorooctane 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 94 0.5 (H247676-03)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	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	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 95 0.5 (H247676-04)

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	12/20/2024	ND	1.89	94.6	2.00	3.59		
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30		
Total BTEX	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	12/20/2024	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	12/20/2024	ND	231	116	200	1.02		
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58		
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND						

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 96 0.5 (H247676-05)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	12/20/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 97 0.5 (H247676-06)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 114 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 98 0.5 (H247676-07)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 99 0.5 (H247676-08)

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	12/20/2024	ND	1.89	94.6	2.00	3.59	
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84	
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13	
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30	
Total BTEX	<0.300	0.300	12/20/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/20/2024	ND	432	108	400	7.14	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	231	116	200	1.02	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 121 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 100 0.5 (H247676-09)

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	12/20/2024	ND	1.89	94.6	2.00	3.59		
Toluene*	<0.050	0.050	12/20/2024	ND	1.98	99.2	2.00	3.84		
Ethylbenzene*	<0.050	0.050	12/20/2024	ND	1.93	96.4	2.00	4.13		
Total Xylenes*	<0.150	0.150	12/20/2024	ND	5.66	94.3	6.00	4.30		
Total BTEX	<0.300	0.300	12/20/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	12/20/2024	ND	432	108	400	7.14		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	231	116	200	1.02		
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	208	104	200	4.58		
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

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
 Project Manager: Beaux Jennings
 P.O. #:

Address: 601 N Marland Street, Suite 400
 Company: Oxy USA Inc.

City: Midland State: TX Zip: 79701
 Attn: Wade Dittrich

Phone #: 210-219-8858 Fax #: Project Owner:

Project #: 0301171941 Project Name: Mark Verducci

Project Location: 30, 21428, 103, 6698 State: Zip:

Sample Name: Leah N. Nicks, Nicks Chemicals Phone #: 575-390-2828

FOR LAB USE ONLY: Matrix: SOIL, Sludge, Other: Acid/Base, Ice/Cool, Other: PRESERV: SAMPLING

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	DATE	TIME	Remarks
1	ES92	0.5	C		SOIL		12/18/24	14:40	BTEX 8021
2	ES93				SOIL		14:41	14:41	TPH 8015
3	ES94				SOIL		14:42	14:42	Chloride 4500
4	ES95				SOIL		14:45	14:45	
5	ES96				SOIL		14:46	14:46	
6	ES97				SOIL		14:47	14:47	
7	ES98				SOIL		14:49	14:49	
8	ES94				SOIL		14:50	14:50	
9	ES100				SOIL				

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Relinquished By: *Mark Verducci* Date: 12-19-24 Received By: *Wade Dittrich* Date: 12-19-24
 Relinquished By: *Wade Dittrich* Date: 1415 Received By: *Wade Dittrich* Date: 1415

Delivered By: (Circle One) Observed Temp. °C: 0.1 Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: 0.5 Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrected Temp. °C: Add'l Phone #: Turnaround Time: Standard Add'l Phone #: *7140*
 Thermometer ID: *499* Bacteria (only) Sample Condition: Cool Intact Yes No
 Corrosion Factor: *0.99* Corrected Temp. °C: *0.1*

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



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

December 27, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 14:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 81 0.5 (H247678-01)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.8 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 82 0.5 (H247678-02)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 87.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.8 % 49.1-148

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 83 0.5 (H247678-03)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 90.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 84 0.5 (H247678-04)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/20/2024	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	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 81.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.1 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 85 0.5 (H247678-05)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 86 0.5 (H247678-06)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 93.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 87 0.5 (H247678-07)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 94.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 88 0.5 (H247678-08)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.1 % 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:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 89 0.5 (H247678-09)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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

Received:	12/19/2024	Sampling Date:	12/18/2024
Reported:	12/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 90 0.5 (H247678-10)

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	12/21/2024	ND	2.15	107	2.00	3.33	
Toluene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	3.18	
Ethylbenzene*	<0.050	0.050	12/21/2024	ND	2.14	107	2.00	2.26	
Total Xylenes*	<0.150	0.150	12/21/2024	ND	6.44	107	6.00	2.12	
Total BTEX	<0.300	0.300	12/21/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	12/20/2024	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/20/2024	ND	211	105	200	1.10	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	185	92.5	200	0.509	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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
 Project Manager: Beaux Jennings
 P.O. #: _____
 Company: Oxy USA Inc.

Address: 601 N Marland Street, Suite 400
 Attn: Wade Dittrich

City: Midland State: TX Zip: 79701

Phone #: 210-219-8858 Fax #: _____

Project #: 036417194 Project Owner: 1

Project Name: Mike Wade WPF

Project Location: 31.21428, -103.66918

Sample Name: Leah Nunez + Nicholas Christians

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	MATRIX							DATE	TIME	ANALYSIS
				# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H2471678	ES 81	0.5	C								12/18/24	14:15	BTEX 8021
	ES 82										14:17	14:20	TPH 8015
	ES 83										14:22	14:24	Chloride 4500
	ES 84										14:26	14:30	
	ES 85										14:32	14:35	
	ES 86										14:39		
	ES 87												
	ES 88												
	ES 89												
	ES 90												

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Relinquished By: *Nickolas Christians*
 Date: 12-19-24
 Received By: *Wade Dittrich*
 Date: 12-19-24

Delivered By: (Circle One) Observed Temp. °C: 0.1
 Corrected Temp. °C: 0.5
 Sample Condition: Cool Intact Yes No
 Intact Yes No
 CHECKED BY: *Wade Dittrich*
 Turnaround Time: Standard Add'l Phone #: _____
 Thermometer ID #445 #140
 Correction Factor #56 -0.6

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



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

March 07, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 03/04/25 14:05.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive.

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 102 0.5' (H251282-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2025	ND	2.08	104	2.00	3.23	
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 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	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

Cardinal Laboratories

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 103 0.5' (H251282-02)

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	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 130 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 104 0.5' (H251282-03)

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	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 112 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 105 0.5' (H251282-04)

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	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 112 0.5' (H251282-05)

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	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 113 % 44.4-145

Surrogate: 1-Chlorooctadecane 113 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 113 0.5' (H251282-06)

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	03/05/2025	ND	2.08	104	2.00	3.23		
Toluene*	<0.050	0.050	03/05/2025	ND	2.21	111	2.00	3.67		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.34	117	2.00	2.81		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	7.20	120	6.00	2.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 127 % 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	320	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 91.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.4 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 108 0.5' (H251282-07)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	96.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 109 0.5' (H251282-08)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 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	320	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 110 0.5' (H251282-09)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 111 0.5' (H251282-10)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 109 % 44.4-145

Surrogate: 1-Chlorooctadecane 108 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 118 0.5' (H251282-11)

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	03/05/2025	ND	2.11	106	2.00	2.17	
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 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	96.0	16.0	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 104 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 123 0.5' (H251282-12)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 114 0.5' (H251282-13)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 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	368	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 56.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 54.5 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 125 0.5' (H251282-14)

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	03/05/2025	ND	2.11	106	2.00	2.17	
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06	
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59	
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65	
Total BTEX	<0.300	0.300	03/05/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/05/2025	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39	
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93	
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND					

Surrogate: 1-Chlorooctane 117 % 44.4-145

Surrogate: 1-Chlorooctadecane 116 % 40.6-153

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 126 0.5' (H251282-15)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/05/2025	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	212	106	200	6.39		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	192	96.1	200	6.93		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 107 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 127 0.5' (H251282-16)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/06/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 119 % 44.4-145

Surrogate: 1-Chlorooctadecane 122 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 128 0.5' (H251282-17)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 129 % 44.4-145

Surrogate: 1-Chlorooctadecane 132 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 129 0.5' (H251282-18)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 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	112	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 128 % 44.4-145

Surrogate: 1-Chlorooctadecane 132 % 40.6-153

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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 136 0.5' (H251282-19)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 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	544	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 118 % 44.4-145

Surrogate: 1-Chlorooctadecane 120 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 137 0.5' (H251282-20)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 128 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 138 0.5' (H251282-21)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 127 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 139 0.5' (H251282-22)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 126 % 44.4-145

Surrogate: 1-Chlorooctadecane 130 % 40.6-153

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/04/2025	Sampling Date:	03/03/2025
Reported:	03/07/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 142 0.5' (H251282-23)

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	03/05/2025	ND	2.11	106	2.00	2.17		
Toluene*	<0.050	0.050	03/05/2025	ND	2.17	109	2.00	2.06		
Ethylbenzene*	<0.050	0.050	03/05/2025	ND	2.09	104	2.00	1.59		
Total Xylenes*	<0.150	0.150	03/05/2025	ND	6.14	102	6.00	1.65		
Total BTEX	<0.300	0.300	03/05/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.9 % 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	64.0	16.0	03/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/05/2025	ND	204	102	200	3.49		
DRO >C10-C28*	<10.0	10.0	03/05/2025	ND	207	103	200	5.65		
EXT DRO >C28-C36	<10.0	10.0	03/05/2025	ND						

Surrogate: 1-Chlorooctane 126 % 44.4-145

Surrogate: 1-Chlorooctadecane 129 % 40.6-153

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Mike Snyder For 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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Mike Snyder For 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
 Project Manager: Beaux Jennings
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 210-219-8858 Fax #:
 Project #: 03Q117194 Project Owner:
 Project Name: MED WIDE WPF
 Project Location: Lea County, NM
 Sampler Name: Nicholas Chappuis, Kadra Shilwala
 P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittich
 Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ACID/BASE, ICE / COOL, OTHER:
 SAMPLING: DATE, TIME

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
ABSTR252	FS102	0.5		1	SOIL			03/03/25	10:29	BTEX 8021
	FS103			1	SOIL				10:32	TPH 8015
	FS104			1	SOIL				10:33	Chloride 4500
	FS105			1	SOIL				10:42	
	FS106			1	SOIL				11:04	
	FS107			1	SOIL				11:12	
	FS108			1	SOIL				10:50	
	FS109			1	SOIL				10:57	
	FS110			1	SOIL				11:01	
	FS111			1	SOIL				11:05	

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Relinquished By: *Nicholas Chappuis*
 Date: 3/3/25
 Received By: *Spedriqney*
 Date: 3/3/25
 Turnaround Time: Standard Rush
 Thermometer ID: #44 #140
 Correction Factor: 0.3
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No Corrected Temp. °C
 Remarks: *Blennings@ensolum.com GMS@ensolum.com*

Delivered By: (Circle One) Observed Temp. °C: 12.5
 Corrected Temp. °C: 10.9
 Sample Condition: Cool Intact Bacteria (only)
 Yes No Observed Temp. °C:
 Corrected Temp. °C:
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Beaux Jennings
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 210-219-8858 Fax #:
 Project #: 03B1417194 Project Owner:
 Project Name: Mesa Verde WPF
 Project Location: Lea County, NM
 Sampler Name: Nicholas Charvatras / Leah Samuels
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
HS12882	ES118	0.5	C	1								03/03/25	11:17	PTex 8021
	ES123		C	1								11/11/24	11:22	TPA 8015
	ES124	114	C	1								11/11/24	11:19	Chloride 4500
	ES125	83.5-85	C	1								11/11/24	11:26	
	ES126		C	1								11/21	12:24	
	ES127		C	1								12:24	12:26	
	ES128		C	1								12:29	12:29	
	ES129		C	1								12:30	12:30	
	ES136		C	1										
	ES137		C	1										

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Relinquished By: *Nicholas Charvatras*
 Date: 03/03/25
 Time: 14:05
 Received By: *Greddie Riquery*
 Date:
 Time:
 Sample Condition: Intact Cool Yes No

Delivered By: (Circle One) UPS Bus Other:
 Observed Temp. °C: -1.21
 Corrected Temp. °C: 0.91
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *SK*

Turnaround Time: Standard Rush
 Thermometer ID: #44 #140
 Correction Factor: 0.31
 Bacteria (only) Intact Cool Yes No
 Sample Condition: Intact Observed Temp. °C
 Corrected Temp. °C

REMARKS: #13 sample is corrected per customer. submitted 3-5-25
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *6-Melissa@ensolum.com*
 B Jennings@ensolum.com

FORM: CDR-3.2.1007121

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

3

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Beaux Jennings
Address: 601 N. Marland St. STE 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 210-219-8858 **Fax #:**
Project #: 03BUC7194 **Project Owner:**
Project Name: Mesa Verde WPP
Project Location: Lea County, NM
Sampler Name:
FOR LAB USE ONLY

P.O. #:
Company: Oxy USA, Inc.
Attn: Wade Dittich
Address:
City:
State: **Zip:**
Phone #: 575-390-2828
Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H251282	21 FS138	0.5	C	1								03/3/25	12:33	8021 BTEX
	22 FS139	0.5	C	1								12:47	12:43	TPH 806
	23 FS142	0.5	C	1										Chloride U500

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Relinquished By: *Mesa Verde WPP*
Date: 03/25/25
Time: 1:05
Received By: *Speckrigney*
Date:
Time:

Delivered By: (Circle One)
 UPS - Bus - Other:
Observed Temp. °C: 12.2
Corrected Temp. °C: 0.9
Sample Condition: Cool Intact
Checked By: *SR*
Turnaround Time: Standard
Thermometer ID #: #113
Correction Factor: #10.3
Bacteria (only) Sample Condition: Cool Intact
Observed Temp. °C:
Corrected Temp. °C:

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

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

March 12, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 03/06/25 14:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 106 4' (H251329-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40	
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 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	6930	16.0	03/07/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	215	108	200	2.23	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	207	103	200	1.22	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 89.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 107 4' (H251329-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40		
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19		
Total BTEX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 131 % 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	7860	16.0	03/07/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	218	109	200	5.57		
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	218	109	200	7.24		
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND						

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 109 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 124 4' (H251329-03)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40	
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 142 % 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	752	16.0	03/07/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	218	109	200	5.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	218	109	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 106 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 137 4' (H251329-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40		
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273		
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56		
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19		
Total BTEX	<0.300	0.300	03/07/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 132 % 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	992	16.0	03/07/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	218	109	200	5.57		
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	218	109	200	7.24		
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND						

Surrogate: 1-Chlorooctane 102 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 140 4' (H251329-05)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40	
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 135 % 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	3280	16.0	03/07/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	218	109	200	5.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	218	109	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 105 % 44.4-145

Surrogate: 1-Chlorooctadecane 105 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/06/2025	Sampling Date:	03/05/2025
Reported:	03/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 01 0-4' (H251329-06)

BTEX 8021B		mg/kg		Analyzed By: JH				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2025	ND	1.77	88.5	2.00	5.40	
Toluene*	<0.050	0.050	03/07/2025	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	03/07/2025	ND	2.19	110	2.00	3.56	
Total Xylenes*	<0.150	0.150	03/07/2025	ND	6.54	109	6.00	1.19	
Total BTEX	<0.300	0.300	03/07/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/07/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2025	ND	218	109	200	5.57	
DRO >C10-C28*	<10.0	10.0	03/07/2025	ND	218	109	200	7.24	
EXT DRO >C28-C36	<10.0	10.0	03/07/2025	ND					

Surrogate: 1-Chlorooctane 114 % 44.4-145

Surrogate: 1-Chlorooctadecane 111 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-05 The surrogate recovery is outside of lab established statistical control limits but still within method limits. Data is not adversely affected.
S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC P.O. #:
 Project Manager: Georgiana McSwane Company: Oxy USA, Inc.
 Address: 601 N Marientfeld Suite # 400 Attn: Tyson Pierce
 City: Midland State: TX Zip: 79701 Email: gmcswane@ensolum.com
 Phone #: 254-459-2338 Project Owner: City: State: Zip:
 Project #: 03B1417194 Phone #:
 Project Location: Mesa Verde WPF Email:
 Sampler Name: Kaoru Shimada

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	MATRIX						DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
				# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE					
HBS1329	FS106	4	C 1	X						3/5/24	1339	X	X	X
	FS107	4	C 1	X						3/5/24	1340	X	X	X
	FS124	4	C 1	X						3/5/24	1456	X	X	X
	FS137	4	C 1	X						3/5/24	1305	X	X	X
	FS140	4	C 1	X						3/5/24	1220	X	X	X
	SW01	0-4	C 1	X						3/5/24	1320	X	X	X

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Relinquished By: [Signature] Date: 3-6-25 Time: 1430 Received By: [Signature] Date: [] Time: []
 Relinquished By: [Signature] Date: [] Time: [] Received By: [Signature] Date: [] Time: []
 Observed Temp. °C: 8.4 Corrected Temp. °C: 8.7
 Sample Condition: Cool Impact Yes No
 CHECKED BY: [Signature] (Initials)
 Remarks: Paykey/AE/NomAFE:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: gmcswane@ensolum.com
 Thermometer ID #113 Correction Factor .05°C
 Standard Bacteria (only) Sample Condition: Yes No
 Corrected Temp. °C: Yes No

FORM-006 R 3.2 11/07/21

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



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

April 02, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 03/27/25 13:20.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 120 0.5' (H251812-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	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	160	16.0	03/28/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/28/2025	ND	220	110	200	2.45	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	204	102	200	1.42	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 90.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 101 0.5' (H251812-02)

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	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	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	480	16.0	03/29/2025	ND	400	100	400	0.00	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	03/28/2025	ND	208	104	200	0.540	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	203	101	200	0.665	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 79.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 121 0.5' (H251812-03)

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	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/29/2025	ND	400	100	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	03/28/2025	ND	208	104	200	0.540	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	203	101	200	0.665	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 89.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 130 0.5' (H251812-04)

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	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/29/2025	ND	400	100	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	03/28/2025	ND	208	104	200	0.540	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	203	101	200	0.665	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 82.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 135 0.5' (H251812-05)

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	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/29/2025	ND	400	100	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	03/28/2025	ND	208	104	200	0.540	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	203	101	200	0.665	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 80.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/27/2025	Sampling Date:	03/24/2025
Reported:	04/02/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 141 0.5' (H251812-06)

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	03/31/2025	ND	1.80	89.9	2.00	0.147	
Toluene*	<0.050	0.050	03/31/2025	ND	1.87	93.3	2.00	0.802	
Ethylbenzene*	<0.050	0.050	03/31/2025	ND	1.88	93.8	2.00	1.12	
Total Xylenes*	<0.150	0.150	03/31/2025	ND	5.81	96.9	6.00	0.864	
Total BTEX	<0.300	0.300	03/31/2025	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	32.0	16.0	03/29/2025	ND	400	100	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	03/28/2025	ND	208	104	200	0.540	
DRO >C10-C28*	<10.0	10.0	03/28/2025	ND	203	101	200	0.665	
EXT DRO >C28-C36	<10.0	10.0	03/28/2025	ND					

Surrogate: 1-Chlorooctane 89.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.8 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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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

Project Manager: Georgiana McSwane

Address: 601 N. Marrenfield St. STE 400

City: Midland

State: TX Zip: 79701

Phone #: 254-459-2338

Fax #:

Project #: 03B1417194

Project Owner: Oxy

Project Name: Mesa Verde UPE

City: State: Zip:

Project Location: Lea County, NM

Phone #: 575-390-2828

Sampler Name: Alfred Christy, Laura Shmuckler

Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
<u>H251812</u>	<u>ES120</u>	<u>0.5'</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:12</u>	<u>BTEX</u>
	<u>ES101</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:26</u>	<u>Chloride</u>
	<u>ES121</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:14</u>	<u>TPH</u>
	<u>ES130</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:22</u>	
	<u>ES135</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:20</u>	
	<u>ES141</u>	<u>1</u>	<u>C</u>	<u>1</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>03/25/25</u>	<u>14:24</u>	

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising 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.

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:

Relinquished By: Melinda Christy

Date: 03/25/25

Received By: [Signature]

Verbal Result: Yes No Add'l Phone #:



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

April 04, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 03/31/25 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/31/2025	Sampling Date:	03/28/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 122 0.5' (H251878-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2025	ND	2.12	106	2.00	1.56	
Toluene*	<0.050	0.050	04/01/2025	ND	2.15	107	2.00	1.55	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.07	104	2.00	2.14	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.10	102	6.00	2.21	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	205	102	200	2.59	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	203	101	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/31/2025	Sampling Date:	03/28/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 131 0.5' (H251878-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2025	ND	2.12	106	2.00	1.56	
Toluene*	<0.050	0.050	04/01/2025	ND	2.15	107	2.00	1.55	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.07	104	2.00	2.14	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.10	102	6.00	2.21	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	205	102	200	2.59	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	203	101	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 91.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	03/31/2025	Sampling Date:	03/28/2025
Reported:	04/04/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 132 0.5' (H251878-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/01/2025	ND	2.12	106	2.00	1.56	
Toluene*	<0.050	0.050	04/01/2025	ND	2.15	107	2.00	1.55	
Ethylbenzene*	<0.050	0.050	04/01/2025	ND	2.07	104	2.00	2.14	
Total Xylenes*	<0.150	0.150	04/01/2025	ND	6.10	102	6.00	2.21	
Total BTEX	<0.300	0.300	04/01/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/01/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/01/2025	ND	205	102	200	2.59	
DRO >C10-C28*	<10.0	10.0	04/01/2025	ND	203	101	200	1.02	
EXT DRO >C28-C36	<10.0	10.0	04/01/2025	ND					

Surrogate: 1-Chlorooctane 92.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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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
 Project Manager: Georgiana Mswane
 Address: 601 N. Marlenfeld St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-459-2338 Fax #: _____
 Project #: 0381417194 Project Owner: Oxy
 Project Name: Mesa Verde WPF
 Project Location: Lea Co, NM
 Sampler Name: Nicholas Christensen, Kevin Skowron
 P.O. #: _____ Company: Oxy USA, Inc.
 Attn: Wade Dittrich
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: 575-390-2828 Fax #: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HS18178	F5122	0.5'	C 1								03/28/25	09:17	BTEX
	F5131	0.5'	C 1								03/28/25	09:14	TPH
	F5132	0.5'	C 1								03/28/25	09:21	Chloride
03/28/25 N/A													

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Nicholas Christensen
 Date: 3/25/25
 Received By: Wade Dittrich
 Date: 3/25/25
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: Gmcswane@ensolum.com

Delivered By: (Circle One) UPS
 Observed Temp.: °C 3.4
 Corrected Temp.: °C 3.7
 Sample Condition: Cool Intact
 Checked By: W.D.
 Turnaround Time: 140 Standard
 Thermometer ID: 413 # 140
 Corrosion Factor: 1.0
 Bacteria (only): Sample Condition Cool Intact
 Corrected Temp.: °C _____



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

April 16, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 04/10/25 13:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/07/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 133 4' (H252138-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 96.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 134 4' (H252138-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362		
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52		
Total BTEX	<0.300	0.300	04/10/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1380	16.0	04/11/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73		
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND						

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 96.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 01 0-4' (H252138-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 96.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 93.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 136 4' (H252138-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 02 0-4' (H252138-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 03 0-4' (H252138-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: CS 119 4' (H252138-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362		
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587		
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48		
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52		
Total BTEX	<0.300	0.300	04/10/2025	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/11/2025	ND	416	104	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27		
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73		
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND						

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 115 4' (H252138-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 99.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 94.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 117 4' (H252138-10)

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	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 100 % 44.4-145

Surrogate: 1-Chlorooctadecane 95.1 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marientfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-469-2338 Fax #:
 Project #: 0381417144 Project Owner: Oxy
 Project Name: MESA Verde WPF
 Project Location: Lea Co, NM
 Sampler Name: Nicolas Castalkos
 P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittrich
 Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	PRESERV.		DATE	TIME	ANALYSIS	REMARKS
			ACID/BASE:	ICE / COOL				
4852138	FS133	4'	(G)RAB OR (C)OMP.		04/18/25	10:44	BTEX	WFE 04/08/2025 NO Sample 04/19/25
	FS134	4'	# CONTAINERS		04/18/25	10:44	TPH	
	SW01	0-4'	GROUNDWATER		04/18/25	10:53	chloride	
	FS136	4'	WASTEWATER		04/18/25	10:53		
	SW02	0-4'	SOIL		04/18/25	12:27		
	SW03	0-4'	SOIL		04/18/25	17:29		
	CS119	4'	SLUDGE		04/18/25	14:36		
	FS115	4'	OTHER:		04/19/25	15:18		
	FS116	4'	ACID/BASE:		04/19/25	15:20		
	FS117	4'	ICE / COOL		04/19/25	15:22		

PLEASE NOTE: Liability and Claims: Cardinal's liability and claim's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal. Limitations of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Nicolas Castalkos
 Date: 4/10/25
 Time: 1337
 Received By: Stockrigery
 Date:
 Time:
 Received By:
 Date:
 Time:

Delivered By: (Circle One) UPS - Bus - Other:
 Observed Temp. °C: 2.4
 Corrected Temp. °C: 2.7
 Sample Condition: Intact Cool Yes No
 CHECKED BY: SK
 Turnaround Time: Standard Add'l Phone #:
 Thermometer ID: #413 RUSH
 Correction Factor: 0.5°C 1.0 3.0
 Bacteria (only) Cool Intact Yes No
 Sample Condition: Observed Temp. °C
 Corrected Temp. °C

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



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

April 16, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 04/10/25 13:37.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 04 0-4' (H252139-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 05 0-4' (H252139-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 103 % 44.4-145

Surrogate: 1-Chlorooctadecane 102 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/10/2025	Sampling Date:	04/08/2025
Reported:	04/16/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 06 0-4' (H252139-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/10/2025	ND	2.27	113	2.00	0.0362	
Toluene*	<0.050	0.050	04/10/2025	ND	2.31	115	2.00	0.0587	
Ethylbenzene*	<0.050	0.050	04/10/2025	ND	2.15	108	2.00	1.48	
Total Xylenes*	<0.150	0.150	04/10/2025	ND	6.46	108	6.00	1.52	
Total BTEX	<0.300	0.300	04/10/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/11/2025	ND	416	104	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/10/2025	ND	209	105	200	2.27	
DRO >C10-C28*	<10.0	10.0	04/10/2025	ND	198	98.9	200	2.73	
EXT DRO >C28-C36	<10.0	10.0	04/10/2025	ND					

Surrogate: 1-Chlorooctane 104 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marterfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-459-2338 Fax #: _____
 Project #: 0301417194 Project Owner: Oxy
 Project Name: Mesa Verde WPF
 Project Location: Lea Co, WPA
 Sampler Name: Nicholas, Christina
 P.O. #: _____ Company: Oxy USA, Inc.
 Attn: Wade Dittrich
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: 575-390-2828 Fax #: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	PRESERV.		DATE	TIME	ANALYSIS REQUEST	
			(G)RAB OR (C)OMP.	# CONTAINERS			DATE	TIME
H252139	1 SW04	0-4'	✓	✓	04/08/25	15:52	BTX	WFE 4/8/25
	2 SW05	0-4'	✓	✓	04/08/25	15:53	TPA	
	3 SW06	0-4'	✓	✓	04/08/25	16:00	chloride	

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Relinquished By: _____ Date: 4-8-25 Received By: _____
 Time: 13:37
 Relinquished By: _____ Date: _____ Received By: _____
 Time: _____

Delivered By: (Circle One) Observed Temp. °C: 2.4 Corrected Temp. °C: 2.7
 Sampler - UPS - Bus - Other: _____
 Sample Condition: Cool Intact Yes No
 CHECKED BY: (Initials) _____
 Turnaround Time: Standard Rush Add'l Phone #: _____
 Thermometer ID #444 #NO +0.3? Bacteria (only) Sample Condition Observed Temp. °C Corrected Temp. °C



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

April 17, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 04/11/25 15:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 73 4' (H252180-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.24	112	2.00	12.5	
Toluene*	<0.050	0.050	04/14/2025	ND	2.10	105	2.00	11.5	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.08	104	2.00	12.9	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.45	107	6.00	12.3	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 80 4' (H252180-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.24	112	2.00	12.5		
Toluene*	<0.050	0.050	04/14/2025	ND	2.10	105	2.00	11.5		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.08	104	2.00	12.9		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.45	107	6.00	12.3		
Total BTEX	<0.300	0.300	04/14/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.4 % 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	4800	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36		
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58		
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND						

Surrogate: 1-Chlorooctane 85.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 82.2 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 91 4' (H252180-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6080	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 78.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 88 4' (H252180-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5360	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36		
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58		
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND						

Surrogate: 1-Chlorooctane 84.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 78 4' (H252180-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 82.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/09/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 79 4' (H252180-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 85.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 74 4' (H252180-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79		
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3		
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76		
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699		
Total BTEX	<0.300	0.300	04/14/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	04/14/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36		
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58		
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND						

Surrogate: 1-Chlorooctane 97.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 100 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 75 4' (H252180-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 101 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 67 4' (H252180-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 98.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 98.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 116 4' (H252180-10)

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	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 108 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 07 0-4' (H252180-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 107 % 44.4-145

Surrogate: 1-Chlorooctadecane 106 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	04/11/2025	Sampling Date:	04/10/2025
Reported:	04/17/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 10 0-4' (H252180-12)

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	04/14/2025	ND	2.04	102	2.00	2.79	
Toluene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	12.3	
Ethylbenzene*	<0.050	0.050	04/14/2025	ND	2.30	115	2.00	3.76	
Total Xylenes*	<0.150	0.150	04/14/2025	ND	6.81	114	6.00	0.699	
Total BTEX	<0.300	0.300	04/14/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	04/14/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/14/2025	ND	172	86.2	200	8.36	
DRO >C10-C28*	<10.0	10.0	04/14/2025	ND	180	90.2	200	1.58	
EXT DRO >C28-C36	<10.0	10.0	04/14/2025	ND					

Surrogate: 1-Chlorooctane 111 % 44.4-145

Surrogate: 1-Chlorooctadecane 110 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-454-2338 Fax #:
 Project #: 0381417194 Project Owner: DXY
 Project Name: Mesa Verde WPF
 Project Location: Lea Co. NM
 Sampler Name: Nicholas Christakos
 P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittich
 Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ICE / COOL, OTHER:
 SAMPLING:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:			
1155a180	FS73	4'	C	1							04/19/25	10:04	BTEX
	FS80	4'	C	1								10:16	Chloride
	ES91	4'	C	1								12:50	TPH
	ES88	4'	C	1								12:52	
	FS78	4'	C	1								15:17	
	FS79	4'	C	1								15:19	
	FS74	4'	C	1								11:06	
	FS75	4'	C	1								11:08	
	ES67	4'	C	1								13:26	
	ES116	4'	C	1								14:55	

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Relinquished By: *Nicholas Christakos* Date: 4-11-25 Time: 15:33
 Received By: *APRIL*
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: *Gmcswane@ensolum.com*
 REMARKS:
 Turnaround Time: *4-11-25* Standard Rush
 Thermometer ID #13400 Correction Factor .05°C/.08°C
 Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C

Delivered By: (Circle One) UPS - Bus - Other: Observed Temp. °C: 28.5 Corrected Temp. °C: 2.1
 Sample Condition Cool Intact Yes No
 CHECKED BY: (Initials) *AB*
 Turnaround Time: *4-11-25* Standard Rush
 Thermometer ID #13400 Correction Factor .05°C/.08°C
 Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Corrected Temp. °C

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

1/2



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marlenfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-489-2338 Fax #:
 Project #: 0381417194 Project Owner: OXY
 Project Name: Mex Verde WPE
 Project Location: Lea Co, NM
 Sampler Name: Nicolas Chibralos
 P.O. #:
 Company: Oxy USA, Inc.
 Attn: Wade Dittrich
 Address:
 City:
 State: Zip:
 Phone #: 575-390-2828
 Fax #:
 MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 PRESERV: ACID/BASE, ICE/COOL, OTHER:
 SAMPLING: Time DATE, Ne Are TIME

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING			
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:					
H99980 19	SW07 SW10	0-4' 0-4'	C C	1 1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	12:59 14:14	Oxy/ops Oxy/ops	BTEX TPH Chloride	WPE Oxy/ops

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Relinquished By: Nicolas Chibralos
 Date: 4-1-25
 Time: 5:23
 Received By: C. P. Davies
 Date: 3-12
 Time:
 Delivered By: (Circle One) UPS - Bus - Other:
 Observed Temp. °C: 8.8
 Corrected Temp. °C: 8.1
 Sample Condition: Cool Intact
 Checked By: (Initials) PH
 Turnaround Time: 17:41-11:25 Standard
 Thermometer ID: #13 #100
 Correction Factor: -0.5 °C
 Bacteria (only)
 Cool Intact
 Sample Condition
 Observed Temp. °C:
 Corrected Temp. °C:
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: Gmcswane@ensolum.com
 REMARKS:
 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

May 12, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 05/09/25 14:42.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 92 4' (H252787-01)

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	05/09/2025	ND	1.91	95.5	2.00	4.75	
Toluene*	0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	05/12/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 84.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 86 4' (H252787-02)

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	05/09/2025	ND	1.91	95.5	2.00	4.75		
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	544	16.0	05/12/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8		
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND						

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/06/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 87 4' (H252787-03)

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	05/09/2025	ND	1.91	95.5	2.00	4.75		
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1300	16.0	05/12/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8		
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND						

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/08/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 98 4' (H252787-04)

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	05/09/2025	ND	1.91	95.5	2.00	4.75		
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4280	16.0	05/12/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8		
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND						

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/08/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 93 4' (H252787-05)

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	05/09/2025	ND	1.91	95.5	2.00	4.75	
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	05/12/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 84.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/08/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 97 4' (H252787-06)

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	05/09/2025	ND	1.91	95.5	2.00	4.75		
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6320	16.0	05/12/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8		
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND						

Surrogate: 1-Chlorooctane 84.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/08/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 08 0-4' (H252787-07)

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	05/09/2025	ND	1.91	95.5	2.00	4.75	
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/12/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 85.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/09/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 13 0-4' (H252787-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2025	ND	1.91	95.5	2.00	4.75	
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	05/12/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 87.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/09/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 90 4' (H252787-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2025	ND	1.91	95.5	2.00	4.75		
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10		
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09		
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90		
Total BTEX	<0.300	0.300	05/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	560	16.0	05/12/2025	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8		
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5		
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND						

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/09/2025	Sampling Date:	05/09/2025
Reported:	05/12/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 09 0-4' (H252787-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2025	ND	1.91	95.5	2.00	4.75	
Toluene*	<0.050	0.050	05/09/2025	ND	2.03	101	2.00	7.10	
Ethylbenzene*	<0.050	0.050	05/09/2025	ND	2.05	103	2.00	7.09	
Total Xylenes*	<0.150	0.150	05/09/2025	ND	6.54	109	6.00	6.90	
Total BTEX	<0.300	0.300	05/09/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	05/12/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2025	ND	190	95.0	200	15.8	
DRO >C10-C28*	<10.0	10.0	05/09/2025	ND	189	94.3	200	11.5	
EXT DRO >C28-C36	<10.0	10.0	05/09/2025	ND					

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference.
QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

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
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marientfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: (254) 459-2338 Fax #: 575-390-2828
 Project #: 02B1417194 Project Owner: OKY
 Project Name: Mesa Verde WPF
 Project Location: Lea County, NM
 Sampler Name: Nicholas Christakos
 P.O. #: Company: Oxy USA, Inc.
 Attn: Wade Dittich
 Address: City: State: Zip:
 Phone #: 575-390-2828
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	CONTAINERS		MATRIX						DATE	TIME	ANALYSIS
			(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
11-55087	ES47	4'	C	1							05/06/25	15:01	BTEX
	ES46	4'	C	1							05/06/25	14:55	TPH
	ES87	4'	C	1							05/06/25	14:57	Chloride
	ES48	4'	C	1							05/06/25	13:53	
	ES43	4'	C	1							05/06/25	15:24	
	ES97	4'	C	1							05/08/25	15:21	
	SW08	0-4'	C	1							05/09/25	15:20	
	SW13	0-4'	C	1							05/09/25	12:45	
	ES40	4'	C	1							05/08/25	12:48	
	SW09	0-4'	C	1							05/09/25	13:00	

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Relinquished By: Nicholas Christakos Date: 5/9/25 Time: 14:45
 Received By: [Signature] Date: [Blank] Time: [Blank]

Delivered By: (Circle One) Observed Temp. °C: 3.4 Cool Intact: Yes Sample Condition: Cool Intact: Yes
 Corrected Temp. °C: 3.72 Corrected Temp. °C: 3.72
 Turnaround Time: Standard Rush
 Thermometer ID: #443
 Corrosion Factor: 05°C x 2.3 = 2.94
 Bacteria (only) Sample Condition: Cool Intact: Yes
 Corrected Temp. °C: [Blank]



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

May 23, 2025

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

RE: MESA VERDE WPF

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

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" at the beginning.

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 66 4' (H253019-01)

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	05/20/2025	ND	2.13	107	2.00	2.54	
Toluene*	<0.050	0.050	05/20/2025	ND	2.30	115	2.00	3.03	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.32	116	2.00	2.38	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	7.18	120	6.00	2.22	
Total BTEX	<0.300	0.300	05/20/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	05/21/2025	ND	416	104	400	0.00	

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

Surrogate: 1-Chlorooctane 89.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/20/2025	Sampling Date:	05/19/2025
Reported:	05/23/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 68 4' (H253019-02)

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

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	05/21/2025	ND	416	104	400	0.00	

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

Surrogate: 1-Chlorooctane 97.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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: Georgiana Mcswane Address: 601 N. Marnefield St. STE 400 City: Midland State: TX Zip: 79701 Phone #: (254) 459-2338 Fax #: Project #: 0331417194 Project Owner: Oxy Project Name: MDA Water WPF Project Location: Leff County NM Sampler Name: Nichols Campbell		P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittich Jessica Keene Address: City: State: Zip: Phone #: 575-390-2828 Fax #:	
FOR LAB USE ONLY Lab I.D.: HES3019 Sample I.D.: ES 66 1 2 ES 68		Sample Depth (feet): 4' 4' 4'	(G)RAB OR (C)OMP. C C C
MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:	SAMPLING DATE: 05/19/25 TIME: 13:25 DATE: 05/19/25 TIME: 13:25
NFE 05/19/25 NFE		BTEX TPH Chloride	
NFE 05/19/25 NFE		NFE 05/19/25 NFE	

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Relinquished By: Nichols Campbell
 Date: 5-20-25
 Time: 1335

Received By: Jessica Keene
 Date: 5-20-25
 Time: 1335

Observed Temp. °C: 0.4
Corrected Temp. °C: 0.7

Sample Condition: Cool Intact Yes No

Checked By: (Initials) JS

Turnaround Time: #140 Rush 2.5 hr
 Thermometer ID: #13
 Correction Factor: -0.5°C

Bacteria (only) Sample Condition: Cool Intact Yes No

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

REMARKS: All Results are emailed. Please provide Email address: GMCSwane@ensolum.com
 Jessica.Keene@oxy.com



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

May 21, 2025

GEORGIANA MCSWANE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 05/20/25 15:33.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: FS 62 4' (H253039-01)

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	05/20/2025	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49		
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19		
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	4960	16.0	05/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345		
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50		
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND						

Surrogate: 1-Chlorooctane 91.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: FS 63 4' (H253039-02)

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	7440	16.0	05/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 84.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: FS 64 4' (H253039-03)

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	6080	16.0	05/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: FS 65 4' (H253039-04)

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	5920	16.0	05/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 88.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 87.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SW 11 0-4' (H253039-05)

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	05/20/2025	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49		
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19		
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	960	16.0	05/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345		
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50		
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND						

Surrogate: 1-Chlorooctane 88.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SW 12 0-4' (H253039-06)

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	05/20/2025	ND	2.11	105	2.00	2.26	
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49	
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19	
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36	
Total BTEX	<0.300	0.300	05/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 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	592	16.0	05/21/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345	
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50	
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND					

Surrogate: 1-Chlorooctane 94.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.9 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	05/20/2025	Sampling Date:	05/20/2025
Reported:	05/21/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	LEA COUNTY, NM		

Sample ID: SW 14 0-4' (H253039-07)

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	05/20/2025	ND	2.11	105	2.00	2.26		
Toluene*	<0.050	0.050	05/20/2025	ND	2.18	109	2.00	2.49		
Ethylbenzene*	<0.050	0.050	05/20/2025	ND	2.13	107	2.00	2.19		
Total Xylenes*	<0.150	0.150	05/20/2025	ND	6.28	105	6.00	2.36		
Total BTEX	<0.300	0.300	05/20/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	432	16.0	05/21/2025	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/20/2025	ND	200	100	200	0.345		
DRO >C10-C28*	<10.0	10.0	05/20/2025	ND	183	91.5	200	1.50		
EXT DRO >C28-C36	<10.0	10.0	05/20/2025	ND						

Surrogate: 1-Chlorooctane 95.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 97.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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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
 Project Manager: Georgiana Mcswane
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: (254) 459-2338 Fax #: _____
 Project #: 03B1417194 Project Owner: OXY
 Project Name: Mesa Verde WPF
 Project Location: Mesa Verde WPF
 Sampler Name: Mesas Chertrocks
 P.O. #: _____
 Company: Oxy USA, Inc. NE
 Attn: Wade Dittich SCS/KALANT
 Address: _____
 City: _____
 State: _____ Zip: _____
 Phone #: 575-890-2828
 Fax #: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HAS3039	FS62	4'	C	1							05/20/25	12:52	BTEX TPH Chloride
	FS63	4'	C	1							05/20/25	11:32	
	FS64	4'	C	1							05/20/25	11:34	
	FS65	4'	C	1							05/20/25	11:35	
	SW11	0-4'	C	1							05/20/25	11:10	
	SW12	0-4'	C	1							05/20/25	12:50	
	SW14	0-4'	C	1							05/20/25	13:27	

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Relinquished By: Mesas Chertrocks
 Date: 5-20-25 Received By: Schodick
 Time: 15:33
 Date: _____ Received By: _____
 Time: _____

Delivered By: (Circle One) UPS Bus Other
 Observed Temp. °C: 5.4
 Corrected Temp. °C: 5.1
 Sample Condition: Cool Intact
 Checked By: SK
 Turnaround Time: 3 Standard Rush
 Thermometer ID # 173 Correction Factor 0.5 °C
 Bacteria (only) Cool Intact
 Observed Temp. °C: _____
 Corrected Temp. °C: _____

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

REMARKS: Jessica_kent@oxy.com



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

June 06, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/03/25 16:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/03/2025	Sampling Date:	06/03/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 47 4 (H253312-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2025	ND	2.10	105	2.00	0.888	
Toluene*	<0.050	0.050	06/04/2025	ND	2.21	111	2.00	0.371	
Ethylbenzene*	<0.050	0.050	06/04/2025	ND	2.05	102	2.00	0.0356	
Total Xylenes*	<0.150	0.150	06/04/2025	ND	6.15	102	6.00	0.319	
Total BTEX	<0.300	0.300	06/04/2025	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	832	16.0	06/04/2025	ND	368	92.0	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2025	ND	188	94.2	200	0.824	
DRO >C10-C28*	<10.0	10.0	06/04/2025	ND	198	98.8	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/04/2025	ND					

Surrogate: 1-Chlorooctane 77.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/03/2025	Sampling Date:	06/03/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 48 4 (H253312-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2025	ND	2.10	105	2.00	0.888	
Toluene*	<0.050	0.050	06/04/2025	ND	2.21	111	2.00	0.371	
Ethylbenzene*	<0.050	0.050	06/04/2025	ND	2.05	102	2.00	0.0356	
Total Xylenes*	<0.150	0.150	06/04/2025	ND	6.15	102	6.00	0.319	
Total BTEX	<0.300	0.300	06/04/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	06/04/2025	ND	368	92.0	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2025	ND	188	94.2	200	0.824	
DRO >C10-C28*	<10.0	10.0	06/04/2025	ND	198	98.8	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/04/2025	ND					

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/03/2025	Sampling Date:	06/03/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 49 4 (H253312-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2025	ND	2.10	105	2.00	0.888	
Toluene*	<0.050	0.050	06/04/2025	ND	2.21	111	2.00	0.371	
Ethylbenzene*	<0.050	0.050	06/04/2025	ND	2.05	102	2.00	0.0356	
Total Xylenes*	<0.150	0.150	06/04/2025	ND	6.15	102	6.00	0.319	
Total BTEX	<0.300	0.300	06/04/2025	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	400	16.0	06/04/2025	ND	368	92.0	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2025	ND	188	94.2	200	0.824	
DRO >C10-C28*	<10.0	10.0	06/04/2025	ND	198	98.8	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/04/2025	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.6 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/03/2025	Sampling Date:	06/03/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 56 4 (H253312-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2025	ND	2.10	105	2.00	0.888	
Toluene*	<0.050	0.050	06/04/2025	ND	2.21	111	2.00	0.371	
Ethylbenzene*	<0.050	0.050	06/04/2025	ND	2.05	102	2.00	0.0356	
Total Xylenes*	<0.150	0.150	06/04/2025	ND	6.15	102	6.00	0.319	
Total BTEX	<0.300	0.300	06/04/2025	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	2110	16.0	06/04/2025	ND	368	92.0	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2025	ND	188	94.2	200	0.824	
DRO >C10-C28*	<10.0	10.0	06/04/2025	ND	198	98.8	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/04/2025	ND					

Surrogate: 1-Chlorooctane 69.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/03/2025	Sampling Date:	06/03/2025
Reported:	06/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 18 0-4 (H253312-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2025	ND	2.10	105	2.00	0.888	
Toluene*	<0.050	0.050	06/04/2025	ND	2.21	111	2.00	0.371	
Ethylbenzene*	<0.050	0.050	06/04/2025	ND	2.05	102	2.00	0.0356	
Total Xylenes*	<0.150	0.150	06/04/2025	ND	6.15	102	6.00	0.319	
Total BTEX	<0.300	0.300	06/04/2025	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	224	16.0	06/04/2025	ND	368	92.0	400	12.2	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/04/2025	ND	188	94.2	200	0.824	
DRO >C10-C28*	<10.0	10.0	06/04/2025	ND	198	98.8	200	1.48	
EXT DRO >C28-C36	<10.0	10.0	06/04/2025	ND					

Surrogate: 1-Chlorooctane 71.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

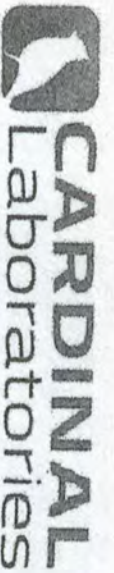
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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Erosolium, LLC

Project Manager: *Georgiana McSwane*

Address: 601 N Marland St # 400

City: *Hickory* State: TX zip: 79701

Phone #: 254-459-2338 Fax #:

Project #: 03B147194 Project Owner:

Project Name: *Yessa Verde WPF*

Project Location: *Lea County*

Sampler Name: *Keona Skimmed*

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: *OXT USA Inc*

Attn: *Jessica Kent*

Address:

City: State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021	TPH 8015	Chloride 4500	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						ICE / COOL
<i>H25332</i>	<i>E5 47</i>	<i>4</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6-3-25</i>	<i>1035</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E5 48</i>	<i>4</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6-3-25</i>	<i>1032</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E5 49</i>	<i>4</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6-3-25</i>	<i>1039</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>E5 56</i>	<i>4</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6-3-25</i>	<i>1034</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>SWB</i>	<i>0-4</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<i>6-3-25</i>	<i>1347</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<i>WTF</i>				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					

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Relinquished By: *[Signature]*

Date: *6-25-25*
 Time: *10:00*

Received By: *[Signature]*

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

REMARKS: *72 hours*

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

Observed Temp. °C: *5.4*
 Corrected Temp. °C: *5.7*

Sample Condition:
 Cool Intact: Yes No
 Bacteria (only) Sample Condition:
 Cool Intact: Yes No

Turnaround Time: *72 hours*
 Standard Rush: Standard Rush
 Thermometer ID: *1113*
 Correction Factor: *0.03*

Checked By: *[Signature]*

Corrected Temp. °C:

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



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

June 09, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/04/25 16:22.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/04/2025	Sampling Date:	06/04/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 08 4' (H253354-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	1.98	98.9	2.00	7.85	
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.00	100	2.00	14.0	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.22	104	6.00	14.9	
Total BTEX	<0.300	0.300	06/06/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1660	16.0	06/05/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2025	ND	218	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	185	92.4	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane 93.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/04/2025	Sampling Date:	06/04/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 12 4' (H253354-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	1.98	98.9	2.00	7.85	
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.7	2.00	11.8	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.00	100	2.00	14.0	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.22	104	6.00	14.9	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	1070	16.0	06/05/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2025	ND	218	109	200	1.23	
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	185	92.4	200	4.20	
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND					

Surrogate: 1-Chlorooctane 94.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.0 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/04/2025	Sampling Date:	06/04/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 13 4' (H253354-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	1.98	98.9	2.00	7.85		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.7	2.00	11.8		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.00	100	2.00	14.0		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.22	104	6.00	14.9		
Total BTEX	<0.300	0.300	06/06/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	2880	16.0	06/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2025	ND	218	109	200	1.23		
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	185	92.4	200	4.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND						

Surrogate: 1-Chlorooctane 93.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/04/2025	Sampling Date:	06/04/2025
Reported:	06/09/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 46 4' (H253354-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/06/2025	ND	1.98	98.9	2.00	7.85		
Toluene*	<0.050	0.050	06/06/2025	ND	1.99	99.7	2.00	11.8		
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.00	100	2.00	14.0		
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.22	104	6.00	14.9		
Total BTEX	<0.300	0.300	06/06/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2400	16.0	06/05/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/05/2025	ND	218	109	200	1.23		
DRO >C10-C28*	<10.0	10.0	06/05/2025	ND	185	92.4	200	4.20		
EXT DRO >C28-C36	<10.0	10.0	06/05/2025	ND						

Surrogate: 1-Chlorooctane 89.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

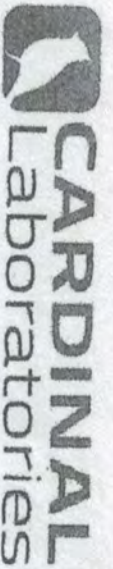
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

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

1/1

Company Name: Ensolum, LLC

Project Manager: Georgian M. Swane

Address: 601 N Maricopa St #400

City: Midland State: TX Zip: 79701

Phone #: 254-459-2338 Fax #: _____

Project #: 03B1417194 Project Owner: _____

Project Name: Mesa Verde WPE

Project Location: Lea County

Sampler Name: Karen Shimada

FOR LAB USE ONLY

P.O. #: _____

Company: OXY USA, Inc.

Attn: Jessica Keene

Address: _____

City: _____ State: _____ Zip: _____

Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
<u>ABS3354</u>	<u>F308</u>	<u>4</u>	<u>C</u>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>6-4-25</u>	<u>8:44</u>	<u>BTEX 8021</u>
	<u>F512</u>	<u>4</u>	<u>C</u>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>6-5-25</u>	<u>9:29</u>	<u>TPH 8015</u>
	<u>F313</u>	<u>4</u>	<u>C</u>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>6-5-25</u>	<u>9:28</u>	<u>Chloride 4500</u>
	<u>F516</u>	<u>4</u>	<u>C</u>	<u>1</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<u>6-4-25</u>	<u>8:58</u>	
	<u>VFFF</u>													<u>6-4-2025</u>

PLEASE NOTE: Lobby and Demages, Cardinal's liability and clients, exclude 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 claims 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, or 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: [Signature] Date: 6-4-25 Time: 10:32

Received By: [Signature] Date: _____ Time: _____

Delivered By: (Circle One) UPS Bus Other

Observed Temp. °C: 53 Sample Condition: Cool Intact Yes No

Corrected Temp. °C: 56 Bacteria (only) Sample Condition: Observed Observed Temp. °C: _____

Turnaround Time: AP 4:45 Standard Rush Add'l Phone #: _____

Thermometer ID: 413 #140 Correction Factor: 0.3

REMARKS: 9mswane@ensolum.com jessica_keene@oxy.com

72 hours, not June 5th

Samples collected on June 4th

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



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

June 10, 2025

GEORGIANA MCSWANE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/05/25 15:24.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 16 0-4' (H253383-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	06/06/2025	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 78.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/05/2025	Sampling Date:	06/05/2025
Reported:	06/10/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 17 0-4' (H253383-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/06/2025	ND	2.15	107	2.00	2.42	
Toluene*	<0.050	0.050	06/06/2025	ND	2.17	108	2.00	2.00	
Ethylbenzene*	<0.050	0.050	06/06/2025	ND	2.12	106	2.00	1.80	
Total Xylenes*	<0.150	0.150	06/06/2025	ND	6.32	105	6.00	2.10	
Total BTEX	<0.300	0.300	06/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

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

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2025	ND	216	108	200	0.997	
DRO >C10-C28*	<10.0	10.0	06/06/2025	ND	212	106	200	0.109	
EXT DRO >C28-C36	<10.0	10.0	06/06/2025	ND					

Surrogate: 1-Chlorooctane 75.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: Kelly Lowery Address: 601 N. Marland St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 244-739-8465-254-459-2338 Email: klowery@ensolum.com Project #: 2505814194 Project Owner: Project Name: Mesa Verde Project Location: Lea County Sampler Name: Kaoru Shimada		P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittich Address: City: State: Zip: Phone #: Email:	
Project Manager: Kelly Lowery Address: 601 N. Marland St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 244-739-8465-254-459-2338 Email: klowery@ensolum.com Project #: 2505814194 Project Owner: Project Name: Mesa Verde Project Location: Lea County Sampler Name: Kaoru Shimada		BILL TO	
Project Manager: Kelly Lowery Address: 601 N. Marland St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 244-739-8465-254-459-2338 Email: klowery@ensolum.com Project #: 2505814194 Project Owner: Project Name: Mesa Verde Project Location: Lea County Sampler Name: Kaoru Shimada		ANALYSIS REQUEST	
Lab I.D. HBS-3383 Sample I.D. SW16 Sample Depth (feet) 0-4 (G)RAB OR (C)OMP. C1 # CONTAINERS C1 MATRIX: GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE 6-5-25 TIME 10:08 TPH 8021B Chloride 4500 BTEX 8015M Hold	VERBAL RESULT: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No ADDITIONAL COMMENTS:	REMARKS: 72 hours jessica.kent@oxy.com

FORM-006 R.3.2 10/07/21

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



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

June 11, 2025

GEORGIANA MCSWANE
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/06/25 15:30.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 15 0-4' (H253410-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1	
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5	
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0	
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5	
Total BTEX	<0.300	0.300	06/09/2025	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/09/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	1.32	
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	199	99.4	200	0.0483	
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND					

Surrogate: 1-Chlorooctane 69.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 70.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 19 4' (H253410-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	400	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	1.32		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	199	99.4	200	0.0483		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 78.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 20 4' (H253410-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 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	1200	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	1.32		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	199	99.4	200	0.0483		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 29 4' (H253410-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 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	3640	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 77.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 30 4' (H253410-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 119 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 90.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 81.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 50 4' (H253410-06)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 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	5120	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 89.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.5 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 51 4' (H253410-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	1010	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 82.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.5 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 52 4' (H253410-08)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 83.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 53 4' (H253410-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 82.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 54 4' (H253410-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	2960	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 80.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
 GEORGIANA MCSWANE
 3122 NATIONAL PARKS HWY
 CARLSBAD NM, 88220
 Fax To:

Received:	06/06/2025	Sampling Date:	06/06/2025
Reported:	06/11/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 55 4' (H253410-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/09/2025	ND	1.93	96.6	2.00	12.1		
Toluene*	<0.050	0.050	06/09/2025	ND	2.10	105	2.00	12.5		
Ethylbenzene*	<0.050	0.050	06/09/2025	ND	2.12	106	2.00	12.0		
Total Xylenes*	<0.150	0.150	06/09/2025	ND	6.61	110	6.00	12.5		
Total BTEX	<0.300	0.300	06/09/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	6080	16.0	06/09/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/09/2025	ND	214	107	200	0.426		
DRO >C10-C28*	<10.0	10.0	06/09/2025	ND	204	102	200	0.532		
EXT DRO >C28-C36	<10.0	10.0	06/09/2025	ND						

Surrogate: 1-Chlorooctane 81.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Georgiana McSwane

Address: 601 N Marlandfield Suite # 400

City: Midland State: TX Zip: 79701

Phone #: 254-459-2338

Email: gmcswane@ensolum.com

Project #: 03B1417194

Project Owner: Mesa Verde WPF

Project Location: ~~32000406-1053923002~~

Sampler Name: Kaoru Shinada

BILL TO

P.O. #:

Company: Oxy USA, Inc.

Attn: Jessica Kent

Address:

City:

State: Zip:

Phone #:

Email:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:					
11553410	SW15	0-4	C1	1	X						6-6-25	815	X	X	X
	F519	4		1								1352	X		
	F370			1								1353	X		
	F321			1								1357	X		
	F332			1								1356	X		
	F330			1								1054	X		
	F351			1								1055	X		
	F352			1								1056	X		
	F353			1								1057	X		
	F334			1								1058	X		

Relinquished By: *Kaoru Shinada* **Date:** 3/25/2026 **Received By:** *[Signature]* **Date:** 3/25/2026

Delivered By: (Circle One) UPS Bus - Other: *SAIC*

Observed Temp. °C: *4.9* **Corrected Temp. °C:** *5.0*

Sample Condition: Intact Broken

Checked By: *[Signature]*

Remarks: *72 hours*

Thermometer ID: *1131110* **Correction Factor:** *-0.3°C to 5°*

Verbal Result: Yes No

Additional Phone #:

FORM-006 R.3.2 10/07/21

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



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

June 19, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/17/25 16:25.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/17/2025	Sampling Date:	06/17/2025
Reported:	06/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 143 4 (H253618-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2025	ND	1.96	97.8	2.00	8.48	
Toluene*	<0.050	0.050	06/18/2025	ND	1.98	99.1	2.00	5.88	
Ethylbenzene*	<0.050	0.050	06/18/2025	ND	1.97	98.5	2.00	4.80	
Total Xylenes*	<0.150	0.150	06/18/2025	ND	5.83	97.1	6.00	5.02	
Total BTEX	<0.300	0.300	06/18/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.2 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/18/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2025	ND	203	101	200	0.959	
DRO >C10-C28*	<10.0	10.0	06/18/2025	ND	195	97.4	200	1.94	
EXT DRO >C28-C36	<10.0	10.0	06/18/2025	ND					

Surrogate: 1-Chlorooctane 95.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 91.4 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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June 23, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/18/25 14:06.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/18/2025	Sampling Date:	06/18/2025
Reported:	06/23/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 06 2 (H253636-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2025	ND	1.99	99.5	2.00	5.23	
Toluene*	<0.050	0.050	06/20/2025	ND	2.21	110	2.00	6.46	
Ethylbenzene*	<0.050	0.050	06/20/2025	ND	2.03	102	2.00	5.80	
Total Xylenes*	<0.150	0.150	06/20/2025	ND	6.10	102	6.00	5.98	
Total BTEX	<0.300	0.300	06/20/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	06/19/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/19/2025	ND	201	101	200	2.72	
DRO >C10-C28*	<10.0	10.0	06/19/2025	ND	190	95.1	200	1.85	
EXT DRO >C28-C36	<10.0	10.0	06/19/2025	ND					

Surrogate: 1-Chlorooctane 88.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 88.8 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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

Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

June 24, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/19/25 16:01.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/19/2025	Sampling Date:	06/19/2025
Reported:	06/24/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 57 4 (H253681-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2025	ND	2.05	103	2.00	6.88	
Toluene*	<0.050	0.050	06/23/2025	ND	2.22	111	2.00	8.89	
Ethylbenzene*	<0.050	0.050	06/23/2025	ND	1.99	99.7	2.00	8.06	
Total Xylenes*	<0.150	0.150	06/23/2025	ND	6.00	99.9	6.00	7.98	
Total BTEX	<0.300	0.300	06/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	06/20/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2025	ND	224	112	200	2.64	
DRO >C10-C28*	<10.0	10.0	06/20/2025	ND	222	111	200	3.67	
EXT DRO >C28-C36	<10.0	10.0	06/20/2025	ND					

Surrogate: 1-Chlorooctane 101 % 44.4-145

Surrogate: 1-Chlorooctadecane 99.3 % 40.6-153

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/19/2025	Sampling Date:	06/19/2025
Reported:	06/24/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 58 4 (H253681-02)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/23/2025	ND	2.05	103	2.00	6.88		
Toluene*	<0.050	0.050	06/23/2025	ND	2.22	111	2.00	8.89		
Ethylbenzene*	<0.050	0.050	06/23/2025	ND	1.99	99.7	2.00	8.06		
Total Xylenes*	<0.150	0.150	06/23/2025	ND	6.00	99.9	6.00	7.98		
Total BTEX	<0.300	0.300	06/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	4960	16.0	06/20/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/20/2025	ND	224	112	200	2.64		
DRO >C10-C28*	<10.0	10.0	06/20/2025	ND	222	111	200	3.67		
EXT DRO >C28-C36	<10.0	10.0	06/20/2025	ND						

Surrogate: 1-Chlorooctane 89.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 89.2 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Georgiana McSwane
 Address: 601 N Marlandfield Suite # 400
 City: Midland State: TX Zip: 79701
 Phone #: 254-459-2338 Email: gmcswane@ensolum.com
 Project #: 03B1417194 Project Owner:
 Project Name: Mesa Verde WPF
 Project Location: Lea County
 Sampler Name: Kaoru Shimada
 P.O. #: 4502264570
 Company: Oxy USA, Inc.
 Attn: Jessica Kent
 Address:
 City:
 State: Zip:
 Phone #:
 Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:					
1853081	F557	4	C	1			X					6-14-25	957	X	X	X
	F558	4	C	1			X					6-14-25	1313	X	X	X

PLEASE NOTE: Liability and Damages: Cardinal's liability and direct services extend to contract. It shall be deemed to be the client's responsibility to provide accurate information and to ensure that the sample is properly collected and preserved. Cardinal is not responsible for any damage to or loss of samples or equipment. Cardinal is not responsible for any damage to or loss of samples or equipment. Cardinal is not responsible for any damage to or loss of samples or equipment.

Relinquished By: [Signature] Date: 3/25/2026
 Received By: [Signature] Date: 3/25/2026
 Delivered By: (Circle One) UPS - Bus - Other: [Signature]
 Observed Temp. °C: 43.5 Corrected Temp. °C: 44.0
 Sample Condition: Cool Intact Yes No
 CHECKED BY: [Signature]
 REMARKS: Paykey/AFENonAFE: 72 hours
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address: gmcswane@ensolum.com, jessica_kent@oxy.com & daniel_sparks@oxy.com
 Add'l Phone #:
 Thermometer ID #113 Correction Factor -0.5°C
 Standard Observed Temp. °C
 Bioclean (only) Sample Condition Yes No
 Corrected Temp. °C Yes No

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

FORM-005 R 3.2 10/07/21



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

June 27, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 06/23/25 12:18.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/23/2025	Sampling Date:	06/20/2025
Reported:	06/27/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 19 0-4' (H253748-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2025	ND	2.03	102	2.00	4.90	
Toluene*	<0.050	0.050	06/25/2025	ND	2.19	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	06/25/2025	ND	2.05	103	2.00	3.31	
Total Xylenes*	<0.150	0.150	06/25/2025	ND	6.17	103	6.00	3.79	
Total BTEX	<0.300	0.300	06/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	4280	16.0	06/25/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	224	112	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/24/2025	ND	214	107	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 77.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 69.0 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/23/2025	Sampling Date:	06/20/2025
Reported:	06/27/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 20 0-4' (H253748-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2025	ND	2.03	102	2.00	4.90	
Toluene*	<0.050	0.050	06/25/2025	ND	2.19	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	06/25/2025	ND	2.05	103	2.00	3.31	
Total Xylenes*	<0.150	0.150	06/25/2025	ND	6.17	103	6.00	3.79	
Total BTEX	<0.300	0.300	06/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 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	10400	16.0	06/25/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	224	112	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/24/2025	ND	214	107	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 75.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.7 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/23/2025	Sampling Date:	06/20/2025
Reported:	06/27/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 59 4' (H253748-03)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/25/2025	ND	2.03	102	2.00	4.90		
Toluene*	<0.050	0.050	06/25/2025	ND	2.19	109	2.00	2.59		
Ethylbenzene*	<0.050	0.050	06/25/2025	ND	2.05	103	2.00	3.31		
Total Xylenes*	<0.150	0.150	06/25/2025	ND	6.17	103	6.00	3.79		
Total BTEX	<0.300	0.300	06/25/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	5120	16.0	06/25/2025	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	224	112	200	3.59		
DRO >C10-C28*	<10.0	10.0	06/24/2025	ND	214	107	200	5.83		
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND						

Surrogate: 1-Chlorooctane 83.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.7 % 40.6-153

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	06/23/2025	Sampling Date:	06/20/2025
Reported:	06/27/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 60 4' (H253748-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/25/2025	ND	2.03	102	2.00	4.90	
Toluene*	<0.050	0.050	06/25/2025	ND	2.19	109	2.00	2.59	
Ethylbenzene*	<0.050	0.050	06/25/2025	ND	2.05	103	2.00	3.31	
Total Xylenes*	<0.150	0.150	06/25/2025	ND	6.17	103	6.00	3.79	
Total BTEX	<0.300	0.300	06/25/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	3160	16.0	06/25/2025	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/24/2025	ND	224	112	200	3.59	
DRO >C10-C28*	<10.0	10.0	06/24/2025	ND	214	107	200	5.83	
EXT DRO >C28-C36	<10.0	10.0	06/24/2025	ND					

Surrogate: 1-Chlorooctane 76.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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: Georgiana McSwane
 Address: 601 N Marlandfield Suite # 400
 City: Midland State: TX Zip: 79701
 P.O. #: 4502264570
 Company: Oxy USA, Inc.
 Attn: Jessica Kent
 Project #: 03B1417194 Email: gmcswane@ensolum.com
 Project Name: Mesa Verde WPF
 Project Location: Lea County
 Project Owner:
 City:
 State: Zip:
 Sampler Name: Kaoru Shimada
 Phone #:
 Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.	SAMPLING	DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:							
HCS3748	1 SW19	0-4	C	1	X									6/20/25	1313	X	X	X
	2 SW20	0-4	C	1	X									6/20/25	1315	X	X	X
	3 FSS9	4	C	1	X									6/20/25	1211	X	X	X
	4 FSS60	4	C	1	X									6/20/25	1214	X	X	X
	NITE																	
	SK																	
	6-20-2025																	
	2025																	

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Relinquished By: [Signature] Date: 6/20/25 Received By: [Signature] Date: 6/20/25

Delivered By: (Circle One) UPS Observed Temp. °C: 8.5 Corrected Temp. °C: 8.5

Sampler - UPS - Bus - Other: UPS Sample Condition: Cool Intact Yes No

FORM-006 R.3.2 10/07/21

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



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

September 19, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 09/15/25 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 08 0.5 (H255746-01)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/15/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 92.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 90.9 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

September 19, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 09/15/25 12:15.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 22 4 (H255747-01)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	09/15/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 61.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 59.8 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 23 4 (H255747-02)

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	09/15/2025	ND	1.61	80.3	2.00	7.04		
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79		
Total BTEX	<0.300	0.300	09/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.0 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2480	16.0	09/15/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 75.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 24 4 (H255747-03)

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	09/15/2025	ND	1.61	80.3	2.00	7.04		
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79		
Total BTEX	<0.300	0.300	09/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	09/15/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 81.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.3 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 25 4 (H255747-04)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 89.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	09/15/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 80.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.6 % 40.6-153

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 26 4 (H255747-05)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 87.7 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	09/15/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 81.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 34 4 (H255747-06)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2050	16.0	09/15/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 80.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.4 % 40.6-153

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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 35 4 (H255747-07)

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	09/15/2025	ND	1.61	80.3	2.00	7.04		
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79		
Total BTEX	<0.300	0.300	09/15/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 88.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	09/15/2025	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	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 86.1 % 44.4-145

Surrogate: 1-Chlorooctadecane 83.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 36 4 (H255747-08)

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	09/15/2025	ND	1.61	80.3	2.00	7.04	
Toluene*	<0.050	0.050	09/15/2025	ND	1.69	84.3	2.00	3.92	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.68	83.9	2.00	2.97	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	4.95	82.5	6.00	2.79	
Total BTEX	<0.300	0.300	09/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 88.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 75.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 73.2 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 37 4 (H255747-09)

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	09/15/2025	ND	1.64	82.2	2.00	5.50		
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97		
Total BTEX	<0.300	0.300	09/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	09/15/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 77.6 % 44.4-145

Surrogate: 1-Chlorooctadecane 75.2 % 40.6-153

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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 38 4 (H255747-10)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3520	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 67.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 67.0 % 40.6-153

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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 39 4 (H255747-11)

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	09/15/2025	ND	1.64	82.2	2.00	5.50		
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97		
Total BTEX	<0.300	0.300	09/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4120	16.0	09/15/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 75.2 % 44.4-145

Surrogate: 1-Chlorooctadecane 74.6 % 40.6-153

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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 40 4 (H255747-12)

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	09/15/2025	ND	1.64	82.2	2.00	5.50		
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97		
Total BTEX	<0.300	0.300	09/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3520	16.0	09/15/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	215	107	200	0.0140		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	224	112	200	0.161		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 80.0 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.0 % 40.6-153

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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 42 4 (H255747-13)

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	09/15/2025	ND	1.64	82.2	2.00	5.50		
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97		
Total BTEX	<0.300	0.300	09/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5720	16.0	09/15/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 83.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 78.7 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 44 4 (H255747-14)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 83.8 % 44.4-145

Surrogate: 1-Chlorooctadecane 77.9 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 45 4 (H255747-15)

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	09/15/2025	ND	1.64	82.2	2.00	5.50		
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04		
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15		
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97		
Total BTEX	<0.300	0.300	09/15/2025	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3080	16.0	09/15/2025	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710		
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246		
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND						

Surrogate: 1-Chlorooctane 86.5 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.1 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 46 4 (H255747-16)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 90.3 % 44.4-145

Surrogate: 1-Chlorooctadecane 84.3 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 20 0-4 (H255747-17)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 84.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 80.0 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 21 0-4 (H255747-18)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 81.7 % 44.4-145

Surrogate: 1-Chlorooctadecane 76.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 11 0-4 (H255747-19)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 85.4 % 44.4-145

Surrogate: 1-Chlorooctadecane 79.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	09/15/2025	Sampling Date:	09/12/2025
Reported:	09/19/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 22 0-4 (H255747-20)

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	09/15/2025	ND	1.64	82.2	2.00	5.50	
Toluene*	<0.050	0.050	09/15/2025	ND	1.75	87.7	2.00	4.04	
Ethylbenzene*	<0.050	0.050	09/15/2025	ND	1.80	90.0	2.00	3.15	
Total Xylenes*	<0.150	0.150	09/15/2025	ND	5.58	92.9	6.00	2.97	
Total BTEX	<0.300	0.300	09/15/2025	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/15/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/15/2025	ND	199	99.3	200	0.710	
DRO >C10-C28*	<10.0	10.0	09/15/2025	ND	215	108	200	0.246	
EXT DRO >C28-C36	<10.0	10.0	09/15/2025	ND					

Surrogate: 1-Chlorooctane 88.9 % 44.4-145

Surrogate: 1-Chlorooctadecane 85.4 % 40.6-153

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

BILL TO

ANALYSIS REQUEST

Project Manager: Kelly Levey
Address: 3122 National Parks Hwy
City: Carlsbad State: NM Zip: 88220
Phone #: 214-733-3163 Email: KLevey@ensolum.com
Project #: 03B1417194 Project Owner:
Project Name: Mesa Verde WFP
Project Location: Lea County
Sampler Name: Kaoru Shimada
P.O. #: 4502 #47334
Company: OXY USA Inc.
Attn: David Sparker
Address:
City: State: Zip:
Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	HPLC	GC	TPH	Chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:						
4855947	F522	4	C	1	X						9-17-15	1107	X	X	X	
	F523	7	C	1	X						9-17-15	1109	X	X	X	
	F524	7	C	1	X						9-17-15	1110	X	X	X	
	F525	7	C	1	X						9-17-15	1110	X	X	X	
	F526	7	C	1	X						9-17-15	1112	X	X	X	
	F534	7	C	1	X						9-17-15	1113	X	X	X	
	F535	7	C	1	X						9-17-15	1105	X	X	X	
	F536	7	C	1	X						9-17-15	1114	X	X	X	
	F537	7	C	1	X						9-17-15	1115	X	X	X	
	F538	4	C	1	X						9-17-15	1115	X	X	X	

PLEASE NOTE: Stability and Oxygen. Containers stability and clarity includes viscosity for any clear solvent whether stored in contact or not. Used as sealed to the amount used for the test for the analysis. Samples not being tested for nitrogen and any other cause volatiles shall be stored sealed unless made in writing and received by Cardinal within 30 days after completion of the analytical service. In no case shall the stability of containers be affected by incident or environmental damage, including without limitation, business transactions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or associates being out of or related to the performance of services heretofore by Cardinal, regardless of whether such damage is caused (or any of the above stated causes or otherwise) by negligence or otherwise.

Relinquished By: [Signature] Date: 9-15-25 Received By: [Signature] Date: 9-15-25

Time: 12:15 Rechecked By: [Signature]

Delivered By: (Circle One) Observed Temp. °C: -1.6 Corrected Temp. °C: -1.6

Sampler - UPS - Bus - Other: Sample Condition: Cool / Wet / Dry / Ice / Other

Checked By: [Signature]

Remarks: Paykay/Ensolum

Thermometer ID #113 Correction Factor -0.38

Standard Batched (only) Sample Condition

Additional Phone #: [Blank]

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

FORM-005 R 3.2 10/07/21



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Kelly Lowery
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 214-733-3165 Email: klowery@ensolum.com
 Project #: 03B1417194 Project Owner
 Project Name: Mesa Verde WPP
 Project Location: Mesa Verde WPP
 Sampler Name: Kaoru Shimada
 P.O. #: 0502242394
 Company: OXY USA, Inc.
 Attn: Daniel Sparks
 Address:
 City:
 State:
 Zip:
 Phone #:
 Email:

Lab I.D.	Sample I.D.	Sample Depth (ft)	(GRAB OR C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021 B	TPH 8015 M	Chloride 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL					
11	F539	4	1		X						9-12-25	11:17	X	X	X	
12	F540	1	1		X						9-12-25	11:18	X	X	X	
13	F542	1	1		X						9-12-25	11:20	X	X	X	
14	F544	1	1		X						9-12-25	11:20	X	X	X	
15	K545	1	1		X						9-12-25	11:25	X	X	X	
16	F546	4	1		X						9-12-25	11:23	X	X	X	
17	SU20	0-4	1		X						9-12-25	11:23	X	X	X	
18	SU21	0-4	1		X						9-12-25	11:23	X	X	X	
19	SU22	0-4	1		X						9-12-25	11:25	X	X	X	
20	SU22	0-4	1		X						9-12-25	11:25	X	X	X	

PLEASE NOTE: Labels and containers must be clearly marked with the sample ID and the date and time of collection. All samples must be clearly labeled with the sample ID and the date and time of collection. All samples must be clearly labeled with the sample ID and the date and time of collection. All samples must be clearly labeled with the sample ID and the date and time of collection.

Relinquished By: [Signature]
 Received By: [Signature]
 Date: 09-15-25
 Time: 12:15
 Observed Temp. °C: -1.2
 Corrected Temp. °C: -1.2
 Sample Condition: Cool Moist
 CHECKED BY: [Signature]
 Remarks: [Text]
 Verbal Result: Yes No
 All Results are emailed. Please provide Email address: klowery@ensolum.com, Daniel.Sparks@oxy.com
 Addtl Phone #: [Text]
 Thermometer ID: #1140
 Correction Factor: +0.3°C
 Standard Routine (only) Sample Condition
 Cool Moist
 Addtl Phone #:
 Corrected Temp. °C:

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabstrm.com

FORM-008 R 3.2 10/07/21

2/2



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

October 29, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 10/23/25 10:23.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 04 4' (H256679-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/24/2025	ND	1.97	98.3	2.00	1.01	
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	190	94.9	200	5.61	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	198	99.2	200	0.805	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 79.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 77.1 % 39.9-141

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:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 06 4' (H256679-02)

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	10/24/2025	ND	1.97	98.3	2.00	1.01		
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53		
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40		
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53		
Total BTEX	<0.300	0.300	10/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	10/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	190	94.9	200	5.61		
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	198	99.2	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND						

Surrogate: 1-Chlorooctane 71.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 70.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 10 4' (H256679-03)

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	10/24/2025	ND	1.97	98.3	2.00	1.01		
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53		
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40		
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53		
Total BTEX	<0.300	0.300	10/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1630	16.0	10/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	190	94.9	200	5.61		
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	198	99.2	200	0.805		
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND						

Surrogate: 1-Chlorooctane 85.2 % 52.4-130

Surrogate: 1-Chlorooctadecane 83.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 11 4' (H256679-04)

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	10/24/2025	ND	1.97	98.3	2.00	1.01		
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53		
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40		
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53		
Total BTEX	<0.300	0.300	10/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3800	16.0	10/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76		
DRO >C10-C28*	21.5	10.0	10/24/2025	ND	199	99.3	200	0.681		
EXT DRO >C28-C36	10.2	10.0	10/24/2025	ND						

Surrogate: 1-Chlorooctane 83.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 78.8 % 39.9-141

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 21 4' (H256679-05)

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	10/24/2025	ND	1.97	98.3	2.00	1.01		
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53		
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40		
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53		
Total BTEX	<0.300	0.300	10/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1420	16.0	10/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76		
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681		
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND						

Surrogate: 1-Chlorooctane 93.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.2 % 39.9-141

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:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 27 4' (H256679-06)

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	10/24/2025	ND	1.97	98.3	2.00	1.01		
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53		
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40		
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53		
Total BTEX	<0.300	0.300	10/24/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	10/27/2025	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76		
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681		
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND						

Surrogate: 1-Chlorooctane 91.5 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.1 % 39.9-141

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:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 28 4' (H256679-07)

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	10/24/2025	ND	1.97	98.3	2.00	1.01	
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 90.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 86.9 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/22/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 03 4' (H256679-08)

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	10/24/2025	ND	1.97	98.3	2.00	1.01	
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 95.0 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.9 % 39.9-141

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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/22/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 144 4' (H256679-09)

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	10/24/2025	ND	1.97	98.3	2.00	1.01	
Toluene*	<0.050	0.050	10/24/2025	ND	2.02	101	2.00	2.53	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.04	102	2.00	2.40	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.10	102	6.00	2.53	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 90.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.7 % 39.9-141

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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/22/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: FS 145 4' (H256679-10)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 92.1 % 52.4-130

Surrogate: 1-Chlorooctadecane 88.8 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/20/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 26 0-4 (H256679-11)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 97.6 % 52.4-130

Surrogate: 1-Chlorooctadecane 92.3 % 39.9-141

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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/21/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 23 0-4 (H256679-12)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 90.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 87.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/21/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 25 0-4 (H256679-13)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: KH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/27/2025	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 79.3 % 52.4-130

Surrogate: 1-Chlorooctadecane 76.0 % 39.9-141

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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/21/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 27 0-4 (H256679-14)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/24/2025	ND	448	112	400	0.00	QM-07, QR-03

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 83.7 % 52.4-130

Surrogate: 1-Chlorooctadecane 82.7 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/22/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 19 0-4 (H256679-15)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 70.4-141

Chloride, SM4500CI-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	10/24/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 93.8 % 52.4-130

Surrogate: 1-Chlorooctadecane 91.0 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/23/2025	Sampling Date:	10/22/2025
Reported:	10/29/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 24 0-4 (H256679-16)

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	10/24/2025	ND	1.95	97.6	2.00	0.295	
Toluene*	<0.050	0.050	10/24/2025	ND	1.86	92.8	2.00	4.83	
Ethylbenzene*	<0.050	0.050	10/24/2025	ND	2.08	104	2.00	1.48	
Total Xylenes*	<0.150	0.150	10/24/2025	ND	6.60	110	6.00	1.08	
Total BTEX	<0.300	0.300	10/24/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 113 % 70.4-141

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	10/24/2025	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/24/2025	ND	210	105	200	1.76	
DRO >C10-C28*	<10.0	10.0	10/24/2025	ND	199	99.3	200	0.681	
EXT DRO >C28-C36	<10.0	10.0	10/24/2025	ND					

Surrogate: 1-Chlorooctane 93.9 % 52.4-130

Surrogate: 1-Chlorooctadecane 90.2 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

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*=Accredited Analyte

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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

ANALYSIS REQUEST

BILL TO

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 Fax #:
 Project #: 03B1417194 Project Owner: Oxy
 Project Name: Mesa Verde WPR
 Project Location: Lea County NM
 Sampler Name: Raphael Vaden
 P.O. #: 4502742334
 Company: Oxy
 Attn: Daniel Sparks
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
HS56679	F504	4'		1			X				10/20/25	1200	X BTEX 8021B
	F506						X					1220	X TPH 8015M
	F510						X					1245	X Chloride 4500
	F511						X					1310	
	F521						X					1320	
	F527						X					1330	
	F528						X					1340	
	F503						X					10/24/25	
	F5144						X					1440	
	F5145						X					1600	
							X					1605	

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Relinquished By: [Signature] Date: 10/25/25 Time:
 Received By: [Signature] Date: 10/25/25 Time:
 Relinquished By: [Signature] Date: 10/23/25 Time:
 Received By: [Signature] Date: 10/23/25 Time:
 Delivered By: (Circle One) Observed Temp. °C: 23 Corrected Temp. °C: 24
 Sampler - UPS - Bus - Other:
 Sample Condition: Cool Intact Yes No
 Bacteria (only) Sample Condition: Cool Intact Yes No
 Turnaround Time: Standard Rush
 Thermometer ID: #13 Correction Factor: -0.5°C
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS: K Lowery @ Ensolum.com
 Cell - 84024015

1012



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

BILL TO

Company Name: Ensolum, LLC
 Project Manager: Kelly Lowery
 Address: 601 N. Marientfeld St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 214 733 3165 Fax #:
 Project #: 05B1417194 Project Owner: OXY
 Project Name: Masa Verda WPF
 Project Location: Mesa Country NM
 Sampler Name: Paperhead WPF

P.O. # 4502742334
 Company: OXY
 Attn: Daniel Sparks
 Address:
 City:
 State: Zip:
 Phone #:
 Fax #:

FOR LAB USE ONLY
 Lab I.D. Sample I.D. Sample Depth (feet)
 Matrix: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:
 Preserv: ACID/BASE, ICE / COOL, OTHER:
 Sampling: DATE, TIME

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING	DATE	TIME	ANALYSIS
HES6679	11 SW2C	0-4'	X	1	GROUNDWATER			10/20/25	1510	BTEX 8021B
	12 SW23		X		GROUNDWATER			10/21/25	1235	TPH 8015M
	13 SW25		X		GROUNDWATER			10/21/25	1435	Chloride 4500
	14 SW27		X		GROUNDWATER			10/21/25	1250	
	15 SW19		X		GROUNDWATER			10/22/25	1115	
	16 SW24		X		GROUNDWATER			10/22/25	1455	
	17									
	18									

Turnaround Time: Standard Rush
 Thermometer ID #13 #140
 Correction Factor -0.3°C #0.3°C
 Bacteria (only) Cool Intact
 Sample Condition: Observed Temp. °C Corrected Temp. °C

Relinquished By: [Signature]
 Date: 10/23/25
 Received By: [Signature]
 Date: 10/23/25
 Turnaround Time: Standard Rush
 Thermometer ID #13 #140
 Correction Factor -0.3°C #0.3°C
 Bacteria (only) Cool Intact
 Sample Condition: Observed Temp. °C Corrected Temp. °C

Relinquished By: [Signature]
 Date: 10/23/25
 Received By: [Signature]
 Date: 10/23/25
 Turnaround Time: Standard Rush
 Thermometer ID #13 #140
 Correction Factor -0.3°C #0.3°C
 Bacteria (only) Cool Intact
 Sample Condition: Observed Temp. °C Corrected Temp. °C



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

November 06, 2025

KELLY LOWERY

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 11/05/25 12:40.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	11/05/2025	Sampling Date:	11/05/2025
Reported:	11/06/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: SW 28 0-4' (H256987-01)

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	11/06/2025	ND	2.04	102	2.00	0.994	
Toluene*	<0.050	0.050	11/06/2025	ND	2.07	103	2.00	0.590	
Ethylbenzene*	<0.050	0.050	11/06/2025	ND	2.05	103	2.00	0.235	
Total Xylenes*	<0.150	0.150	11/06/2025	ND	6.16	103	6.00	0.114	
Total BTEX	<0.300	0.300	11/06/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 70.4-141

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	11/06/2025	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/05/2025	ND	186	93.1	200	2.77	
DRO >C10-C28*	<10.0	10.0	11/05/2025	ND	194	96.8	200	1.27	
EXT DRO >C28-C36	<10.0	10.0	11/05/2025	ND					

Surrogate: 1-Chlorooctane 103 % 52.4-130

Surrogate: 1-Chlorooctadecane 101 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Kelly Lowery Address: 601 N. Marnefeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: (214) 733-3165 Fax #: Project #: 03B1417194 Project Owner: Project Name: Mesa Verde WPF Project Location: Lea County, NH Sampler Name: Tabitha Guadian				BILL TO P.O. #: Company: OXY Attn: Daniel Sparks Address: City: State: Zip: Phone #: Fax #:						
FOR LAB USE ONLY				ANALYSIS REQUEST						
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
#0510987	SW28	0-4'		1	<input checked="" type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE OTHER :	<input checked="" type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL OTHER :		11/5/25	0940	BTEX 8021 B TPH 8015M Chlorides 4500
NEE 11/5/25 TNG										

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature]	Date: 11/5/25 Time: 840	Received By: [Signature]	Date: 11/5/25 Time: 840
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C: 4.1 Corrected Temp. °C: 4.4	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: [Signature]
REMARKS: 24hr TAT klouery@ensolum.com			
Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Add'l Phone #: All Results are emailed. Please provide Email address:			
Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Thermometer ID #113 #140 Correction Factor 0.5°C <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/>			
Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Observed Temp. °C Corrected Temp. °C			

FORM-006 R-3-2 10/07/21

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



APPENDIX D

Remediation Work Plan: Dated December 30, 2024

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.21428 Longitude W 103.66918
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MESA VERDDE	Site Type	WATER POLISHING FACILITY
Date Release Discovered	6/3/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	15	24S	32E	LEA COUNTY, NM

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 bbls	Volume Recovered (bbls) 75 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

12" STEEL PW LINE CORRODED

Form C-141

State of New Mexico
Oil Conservation Division

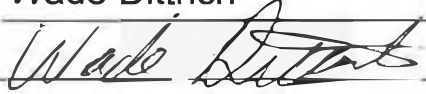
Page 2

Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? yes, by email to OCD email address by Wade Dittrich on June 6, 2022	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Wade Dittrich</u> Title: <u>Environmental Coordinator</u> Signature: <u></u> Date: <u>6-28-22</u> email: <u>wade_dittrich@oxy.com</u> Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/28/2022</u>

Location of spill: Mesa Verde Water Polishing Facility

Date of Spill: 6/3/2022

Site Soil Type: Fine Sand

Average Daily Production: _____ BBL Oil _____ BBL Water

Total Area Calculations							
Total Surface Area	width		length		wet soil depth	oil (%)	
Rectangle Area #1	60 ft	X	355 ft	X	1 in	0%	
Rectangle Area #2	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #3	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #4	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #5	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #6	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #7	0 ft	X	0 ft	X	0 in	0%	
Rectangle Area #8	0 ft	X	0 ft	X	0 in	0%	

Porosity 0.16 gal per gal

Saturated Soil Volume Calculations:

		H2O	OIL
Area #1	21300 sq. ft.	888 cu. ft.	cu. ft.
Area #2	0 sq. ft.	cu. ft.	cu. ft.
Area #3	0 sq. ft.	cu. ft.	cu. ft.
Area #4	0 sq. ft.	cu. ft.	cu. ft.
Area #5	0 sq. ft.	cu. ft.	cu. ft.
Area #6	0 sq. ft.	cu. ft.	cu. ft.
Area #7	0 sq. ft.	cu. ft.	cu. ft.
Area #8	0 sq. ft.	cu. ft.	cu. ft.
Total Solid/Liquid Volume:	21,300 sq. ft.	888 cu. ft.	cu. ft.

Soil Type	Porosity
Clay	0.15
Peat	0.40
Glacial Sediments	0.13
Sandy Clay	0.12
Silt	0.16
Loess	0.25
Fine Sand	0.16
Medium Sand	0.25
Coarse Sand	0.26
Gravelly Sand	0.26
Fine Gravel	0.26
Medium Gravel	0.25
Coarse Gravel	0.18
Sandstone	0.25
Siltstone	0.18
Shale	0.05
Limestone	0.13
Basalt	0.19
Volcanic Tuff	0.20
Standing Liquids	

Estimated Volumes Spilled

	H2O	OIL
Liquid in Soil:	25.3 BBL	0.0 BBL
Liquid Recovered :	75.0 BBL	0.0 BBL
Spill Liquid	100.3 BBL	0.0 BBL
Total Spill Liquid:	<u>100.3</u>	

Recovered Volumes

Estimated oil recovered: **0.0 BBL**
 Estimated water recovered: **75.0 BBL**



December 30, 2024

Oxy USA Inc.
PO Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich

Re: Remediation Work Plan
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico
Incident ID: nAPP2217848858
Ensolum Project No. 03B1417194

Dear Mr. Dittrich:

Ensolum, LLC. (Ensolum) has prepared this Remediation Work Plan to perform environmental consulting services in the vicinity of the Mesa Verde WPF, referred to hereinafter as the "Site." The Site is located off HWY 128 and Orla Road, approximately 31 miles west of Jal in Lea County, New Mexico.

I. SITE DESCRIPTION & BACKGROUND

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Mesa Verde WPF
Location:	32.21428° N, 103.66918° W Lea County, New Mexico
Property:	Private & Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

The Site is located in Unit L, Section 15, Township 24 South, Range 32 East, in Lea County, New Mexico (32.21428°, -103.66918°) and is associated with oil and gas exploration and production operations on private land as well as Federal Land managed by the Bureau of Land Management (BLM).

On June 3, 2022, approximately 100 barrels (bbls) of produced water onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 75 bbls of produced water were recovered. The cause of the release was due to a corroded produced water line. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on June 28, 2022. The release was assigned Incident Number nAPP2217848858.

Between November 22, 2024 and December 19, 2024, Ensolum personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. A total of 16 delineation soil samples (DS01 through DS07 and PH01 through PH05) were collected from 12 locations at depths ranging from 0.5 feet to 4 feet bgs within and surrounding the release area. Bedrock was encountered in the release extent at 2 delineation soil sample locations (PH01 and PH02). Refusal depths ranged from 2.5 feet to 3.5 feet bgs. Impacted soil was delineated to the depth of the shallow bedrock where refusal was encountered with the backhoe.

Based on laboratory analytical results, additional investigation/remediation is needed at the Site.

Based on the location of a soil boring (SB-1) within 0.5 miles of the Site, the New Mexico Administrative Code (NMAC) 19.15.29 *Releases* Table I: Closure Criteria for Soils Impacted by a Release (> 100 feet) values were utilized. The delineation soil sample results are included as **Table 1** in **Attachment D**.

The Site Map indicating the overall area of the release, the composite floor soil sample locations are included as **Figure 3** in **Attachment A**. The Closure Criteria Map is included as **Figure 4** in **Attachment A**.

II. 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 NMAC 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. 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. Closure criteria supporting documentation is included in **Attachment B**.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other 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 an occupied 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 (5) 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 as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area.
- The Site is not located within an area of flood hazard.

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

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
>100 feet	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	TPH (GRO+DRO)	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH will be applied to the top 4 feet of soil in the pasture 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 immediately reclaimed following remediation.

III. SCOPE OF SERVICES

A. Health and Safety Plan

Ensolum will develop a site-specific Health and Safety Plan (HSP) for the performance of the scope of services described in this Remediation Work Plan. For the purposes of this HSP, it is assumed that the constituents of concern (COCs) include petroleum hydrocarbons. For the purposes of this HSP, it is assumed that the scope of services can be conducted under modified Level D personal protective equipment (PPE), which will include fire-retardant (FR) clothing, hard hat, steel-toed boots, protective eyewear and gloves. Should the need arise to upgrade PPE (e.g. respiratory protection), the client will be notified, and the HSP will be modified accordingly. Although it is not anticipated at this time, it should be noted that a PPE upgrade will constitute a change in scope of work, requiring a change order.

B. Excavation Activities

The Site will be excavated by a third-party contractor to remove impacted soils in the release area based on laboratory analytical data, olfactory and/or visual evidence of impairment.

An estimated 667 cubic yards (cy) will be excavated from the release area. The impacted soil will be transported and properly disposed of at the Lealand Landfill in Carlsbad, New Mexico.

The remediation will be completed within 90 days of approval from the NMOCD.



C. Confirmation Composite Soil Sampling Program

Once excavation activities are complete, Ensolum will collect additional confirmation composite soil samples every 200 square-feet from the bottomhole of the release area based on the following criteria:

- Prior composite floor soil sample exceedance;
- Highest photoionization detector (PID) reading;
- Highest electrical conductivity reading; or
- Change in lithology.

D. Laboratory Analytical Program

The soil samples collected from the proposed confirmation floor soil samples will be analyzed for total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and motor oil range organics (MRO) utilizing Environmental Protection Agency (EPA) SW-846 Method 8015M and chloride utilizing EPA SW-846 Method SM4500 Cl-B under the NMOCD Closure Criteria for Soils Impacted by a Release (>100 feet).

IV. REPORTING


Subsequent to the completion of Site activities, a Closure Report will be prepared by Ensolum to document completed site investigation and remediation activities as well as any corrective action at the Site, if needed.

V. DELIVERABLES

The results, findings, conclusions, and recommendations, which will be provided in the Closure Report, will be based solely on the conditions which are observed during the site investigation and the information reviewed by Ensolum. No warranties or representations, expressed or implied, will be made as to the condition of the site beyond that observed by Ensolum during its site investigation.

We appreciate the opportunity to provide this Remediation Work Plan and look forward to working with you on this project. If you should have any questions or comments regarding this Remediation Work Plan, please contact either of the undersigned.

Sincerely,
Ensolum, LLC



Georgiana McSwane
Project Manager
gmcswane@ensolum.com



Beaux Jennings
Associate Principal
bjennings@ensolum.com

Attachments:

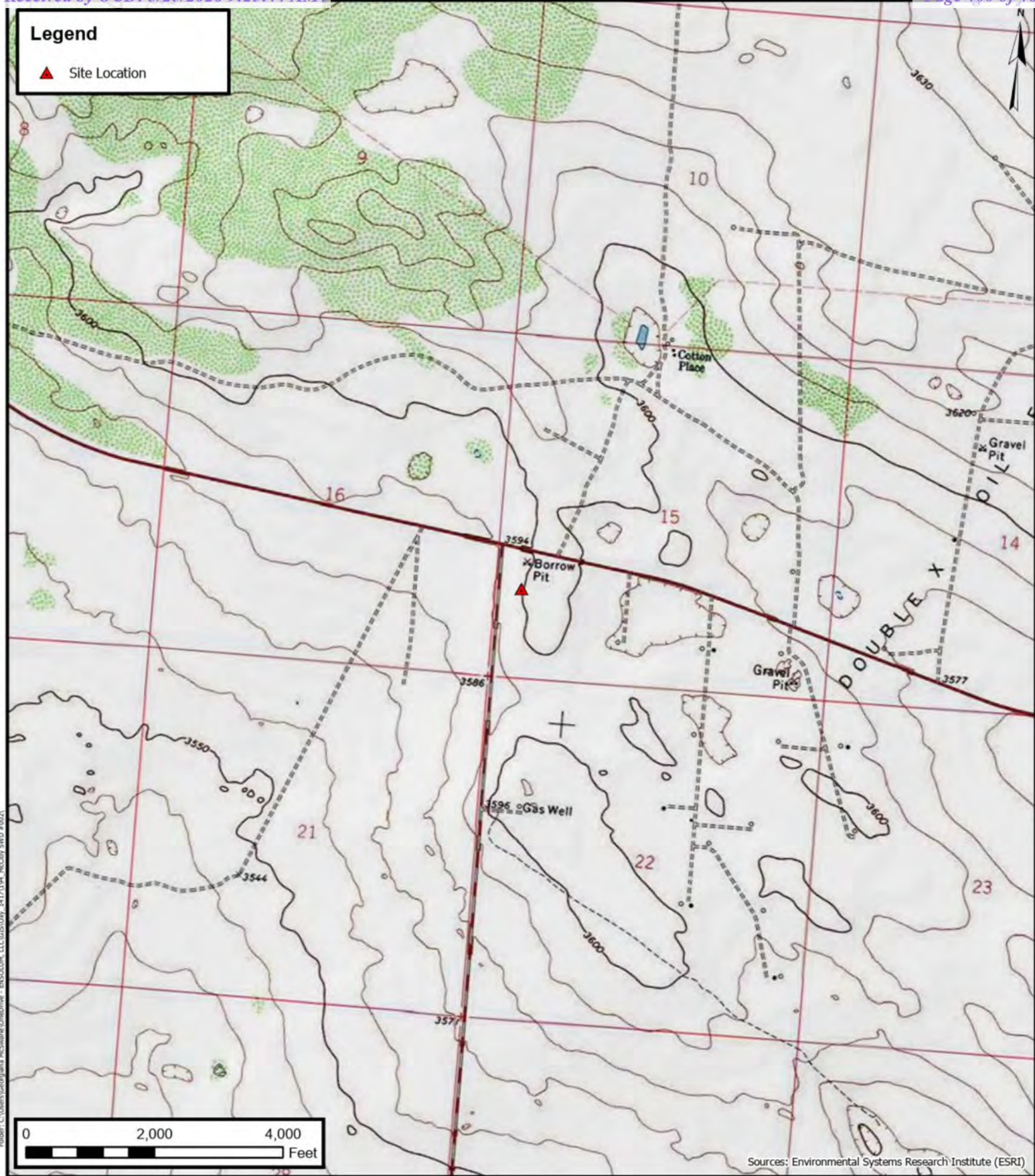
- Attachment A – Figures**
- Attachment B – Supporting Documentation**
- Attachment C – Photographic Documentation**
- Attachment D – Table 1 – Soil Sample Analytical Results**
- Attachment E – Laboratory Report & Chain-of-Custody Documentation**
- Attachment F – C-141**



ATTACHMENT A

Figures





Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Day - 1417194_MesaVerde\03B1417194

ENSOLUM
 Environmental, Engineering and
 Hydrogeologic Consultants

Topographic Map
 Oxy USA Inc.
 Mesa Verde WPF
 32.21428° N, 103.66918° W
 Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE
 1



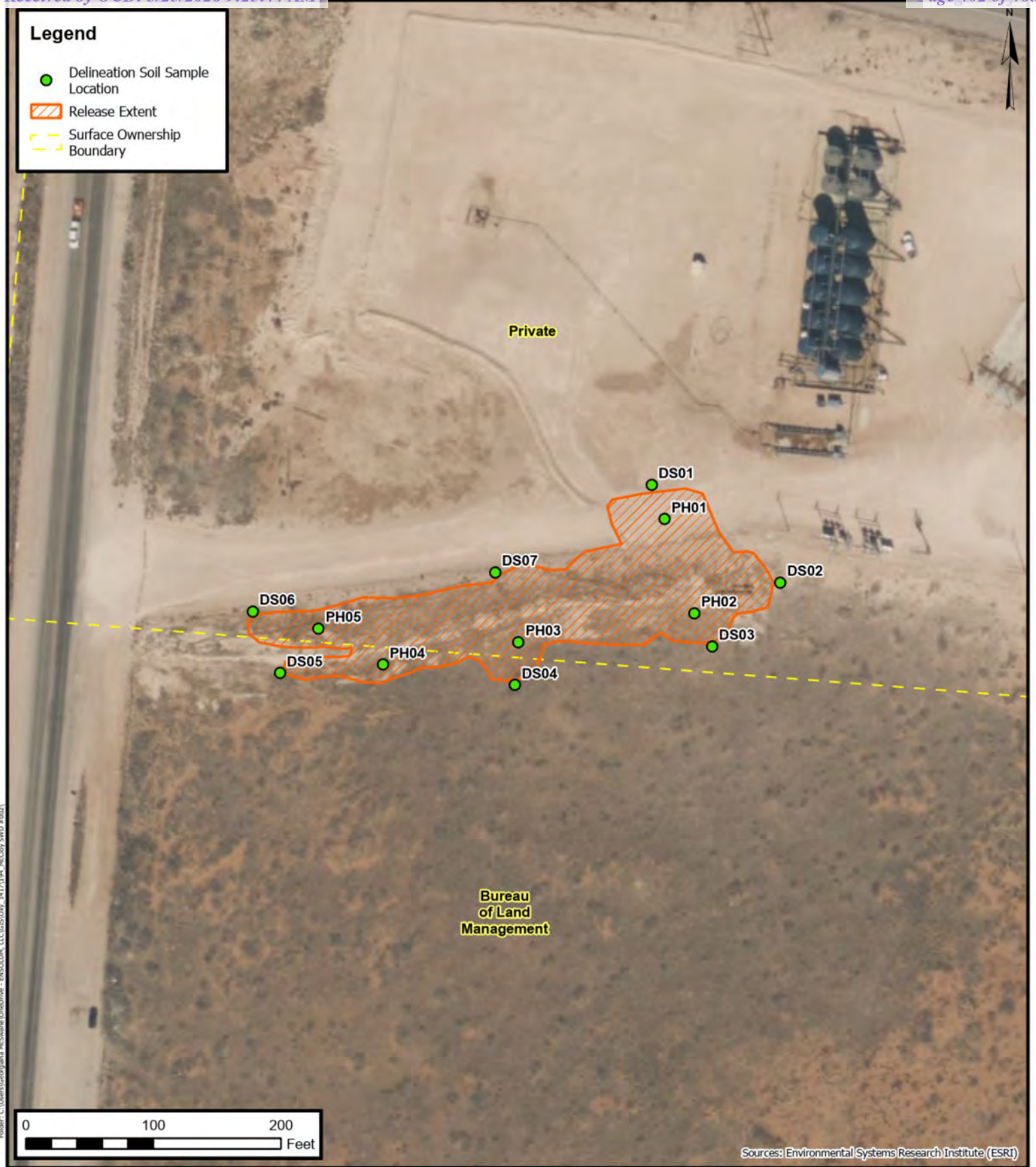
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Site Vicinity Map
 Oxy USA Inc.
 Mesa Verde WPF
 32.21428° N, 103.66918° W
 Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE
2



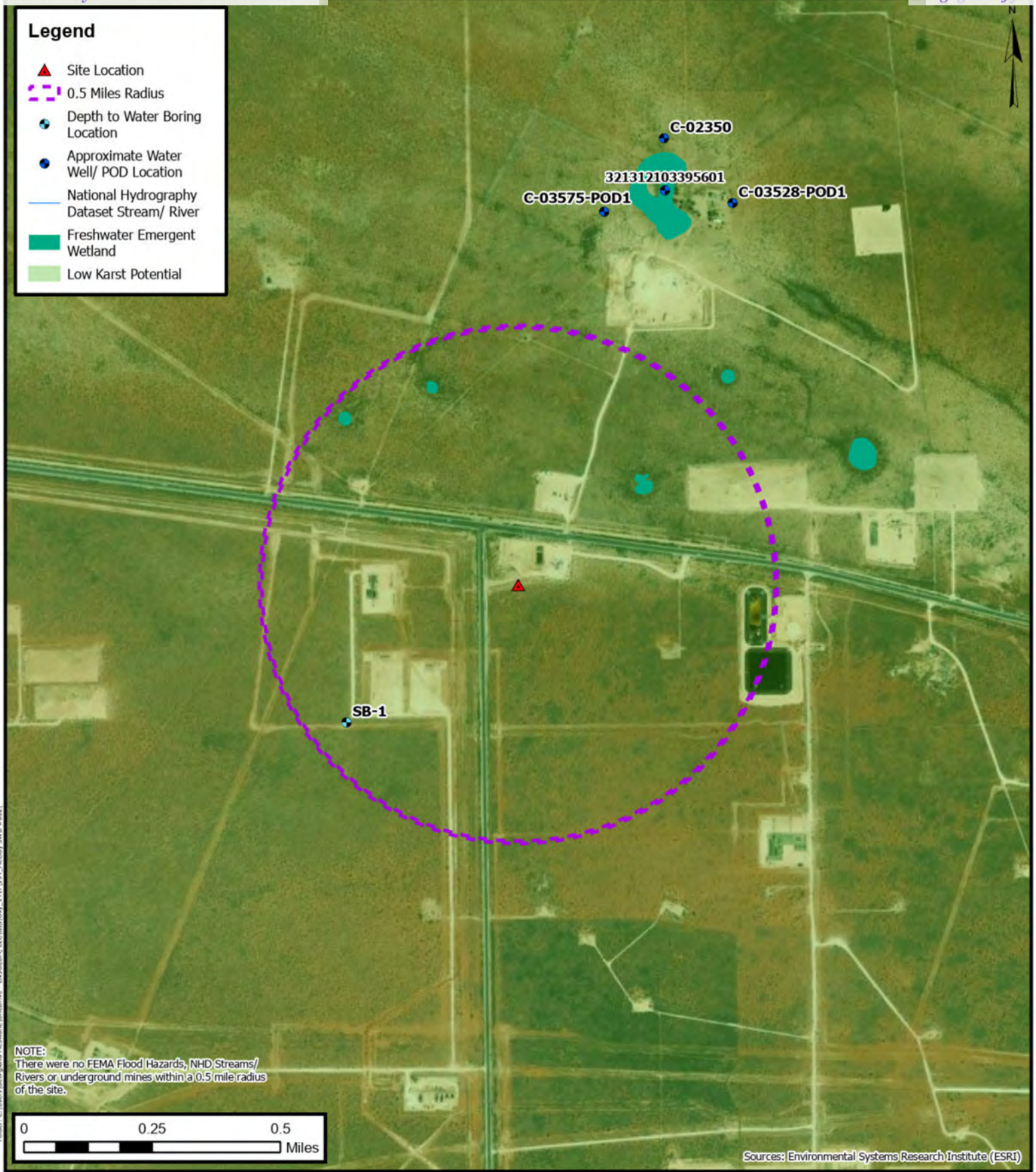
Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Day - 1417194_McCoy SWD #002



Site Map
 Oxy USA Inc.
 Mesa Verde WPF
 32.21428° N, 103.66918° W
 Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE
3



Folder: C:\Users\Georgiana McSwane\OneDrive - ENSOLUM, LLC\GIS\Day - 1417194_McCoy SWD #002

NOTE:
There were no FEMA Flood Hazards, NHD Streams/
Rivers or underground mines within a 0.5 mile radius
of the site.

0 0.25 0.5
Miles

Sources: Environmental Systems Research Institute (ESRI)



Closure Criteria Map

Oxy USA Inc.
Mesa Verde WPF
32.21428° N, 103.66918° W
Lea County, New Mexico

PROJECT NUMBER: 03B1417194

FIGURE
4



ATTACHMENT B

Supporting Documentation



GROUNDWATER LOG SB-1

ENSOLUM

PROJECT NUMBER 03B1417169	DRILLING DATE 11/19/2024	COORDINATES 32.288270, -103.785346
PROJECT NAME Pure Gold A Federal 005	TOTAL DEPTH 110'	COORD SYS
CLIENT Oxy USA, Inc.	DIAMETER 2"	COMPLETION
ADDRESS	CASING PVC	SURFACE ELEVATION 3358'
LICENCE NO.	SCREEN	WELL TOC

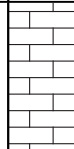
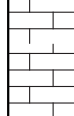




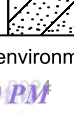

COMMENTS Drilled by Caleb Gregory, West Texas Water Well **LOGGED BY** Shimada Kaoru
CHECKED BY

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				2			Brown sandy clay, dry, very fine-grained to fine-grained, trace gravel		3356
				4		3354			
				6		3352			
				8		3350			
				10		3348			
				12		3346			
				14		3344			
				16		3342			
				18		3340			
				20		3338			
							Pale light brown caliche, small gravel		3338
				22		3336			
						3334			
				24		3334			

Disclaimer This bore log is intended for environmental not geotechnical purposes.

GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				26					3332
				28					3330
				30			Brown clay, dry, no gravel, very fine-grained to fine-grained, oxidites		3328
				32					3326
				34					3324
				36					3322
				38					3320
				40			Reddish-brown, clayey-sand, fine to coarse, dry, non-cemented, non-plastic, some gravel		3318
				42					3316
				44					3314
				46					3312
				48					3310
				50			Brownish-red, sandy clay, dry, non-plastic, non-cemented, no gravel, oxidized		3308
				52					3306
				54					3304

Disclaimer This bore log is intended for environmental not geotechnical purposes.



GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)		
				56					3302		
				58						3300	
				60			Reddish-brown sandy clay, non-cemented, non-plastic, very fine to fine-grained			3298	
				62						3296	
				64						3294	
				66						3292	
				68						3290	
				70			Same as above, darker in color			3288	
				72							3286
				74							3284
				76							3282
				78							3280
				80							3278
				82							3276
				84							3274

Disclaimer This bore log is intended for environmental not geotechnical purposes.



GROUNDWATER LOG SB-1

ENSOLUM

PID	Samples	Analysed	% Recovery	Depth (ft)	Graphic Log	Moisture	Material Description	Well Diagram	Elevation (ft)
				86					3272
				88					3270
				90			Reddish-brown, dry, sandy clay, non-cemented, non-plastic, very fine-grained to fine-grained, no gravel		3268
				92				3266	
				94				3264	
				96				3262	
				98				3260	
				100				3258	
				102				3256	
				104				3254	
				106				3252	
				108				3250	
				110			Reddish brown silty clay, dry, non-cemented, non-plastic, very fine to coarse, no gravel	3248	
				112				3246	
				114				3244	

Disclaimer This bore log is intended for environmental not geotechnical purposes.



ATTACHMENT C

Photographic Documentation



Photographic Log
Oxy USA Inc.
Mesa Verde WPF
03B1417194



Photograph: 1 Date: 11/22/2024
Description: Release extent from West
View: East



Photograph: 2 Date: 11/22/2024
Description: Release extent from Southwest
View: Northeast



Photograph: 3 Date: 11/22/2024
Description: Release extent and risers from Southeast
View: Northwest



Photograph: 4 Date: 11/22/2024
Description: Release extent and risers from East
View: West

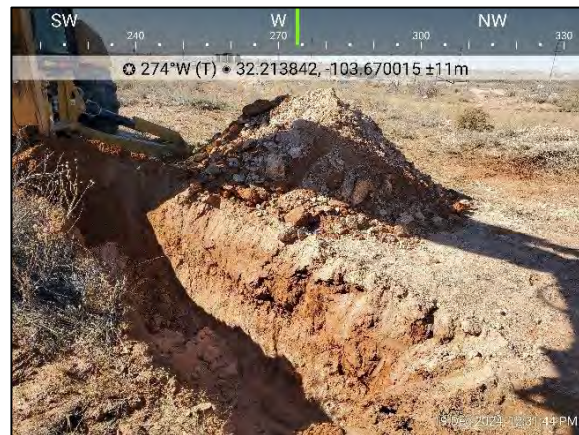
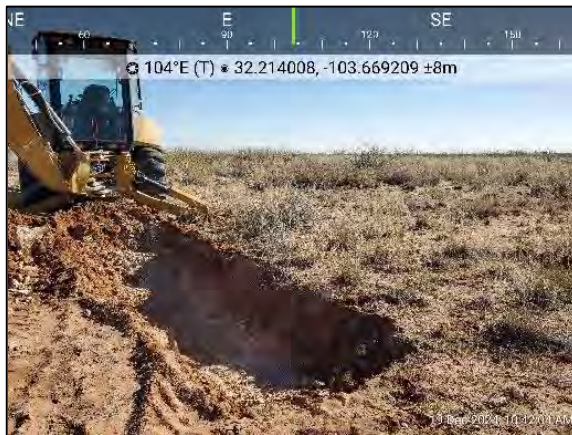


Photographic Log
Oxy USA Inc.
Mesa Verde WPF
03B1417194



Photograph: 5 Date: 12/19/2024
Description: Hydrovac spotting an Oxy line
View: East

Photograph: 6 Date: 12/19/2024
Description: PH01 Pothole Location
View: West

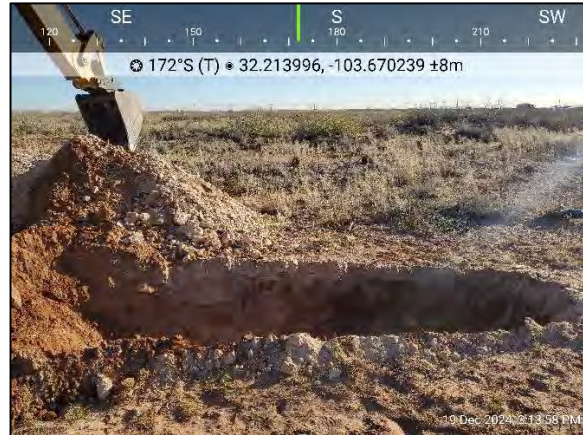


Photograph: 7 Date: 11/22/2024
Description: PH02 Pothole Investigation
View: East

Photograph: 8 Date: 12/19/2024
Description: PH04 Pothole Investigation
View: West



Photographic Log
Oxy USA Inc.
Mesa Verde WPF
03B1417194



Photograph: 9 Date: 12/19/2024
Description: PH03 Pothole Investigation
View: West

Photograph: 10 Date: 12/19/2024
Description: PH05 Pothole Investigation
View: South



ATTACHMENT D

Table 1 – Soil Sample Analytical Results



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Mesa Verde WPF
 Oxy USA Inc.
 Lea County, New Mexico
 Ensolum Project No. 03B1417194

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 C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total (GRO+DRO) C ₆ -C ₂₈ (mg/kg)	TPH Total (GRO+DRO+MRO) C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	NE	100	600
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results													
DS01	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
DS02	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS03	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS04	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS05	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS06	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS07	11/22/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
PH01	12/19/2024	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,360
PH02	12/19/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,600
	12/19/2024	2.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,760
PH03	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
	12/19/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	4,840
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,920
PH04	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	5,160
PH05	12/19/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,260
	12/19/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,440

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

bgs: below ground surface
 mg/kg: milligrams per kilogram
 NE: Not Established
 mg/kg: milligrams per kilogram
 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



ATTACHMENT E

Laboratory Report &
Chain-of-Custody Documentation



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

November 27, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 11/22/24 14:19.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 01 0.5' (H247187-01)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 118 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 02 0.5' (H247187-02)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	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	<16.0	16.0	11/26/2024	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	11/26/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/26/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/26/2024	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.0 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 03 0.5' (H247187-03)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	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	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 122 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 04 0.5' (H247187-04)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 05 0.5' (H247187-05)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	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	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 117 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 06 0.5' (H247187-06)

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	11/26/2024	ND	2.09	105	2.00	2.46	
Toluene*	<0.050	0.050	11/26/2024	ND	2.11	106	2.00	1.35	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.04	102	2.00	1.31	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.46	108	6.00	1.92	
Total BTEX	<0.300	0.300	11/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 124 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	11/22/2024	Sampling Date:	11/22/2024
Reported:	11/27/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Alyssa Parras
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: DS 07 0.5' (H247187-07)

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	11/26/2024	ND	1.99	99.5	2.00	0.766	
Toluene*	<0.050	0.050	11/26/2024	ND	2.05	102	2.00	1.50	
Ethylbenzene*	<0.050	0.050	11/26/2024	ND	2.03	101	2.00	1.69	
Total Xylenes*	<0.150	0.150	11/26/2024	ND	6.02	100	6.00	1.60	
Total BTEX	<0.300	0.300	11/26/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/26/2024	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	11/25/2024	ND	196	98.0	200	0.148	
DRO >C10-C28*	<10.0	10.0	11/25/2024	ND	190	94.8	200	0.514	
EXT DRO >C28-C36	<10.0	10.0	11/25/2024	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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



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

December 20, 2024

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/19/24 16:48.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 01 3.5' (H247704-01)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4360	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 02 2' (H247704-02)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.5 % 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
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 02 2.5' (H247704-03)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2760	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 81.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 03 1' (H247704-04)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 89.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 03 3' (H247704-05)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4840	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 89.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 03 4' (H247704-06)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2920	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 80.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 04 1' (H247704-07)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 87.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 04 4' (H247704-08)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5160	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 86.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 05 1' (H247704-09)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1260	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 GEORGIANA MCSWANE
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	12/19/2024	Sampling Date:	12/19/2024
Reported:	12/20/2024	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Tamara Oldaker
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: PH 05 4' (H247704-10)

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	12/19/2024	ND	1.65	82.6	2.00	10.3	
Toluene*	<0.050	0.050	12/19/2024	ND	1.69	84.5	2.00	11.2	
Ethylbenzene*	<0.050	0.050	12/19/2024	ND	1.65	82.3	2.00	11.1	
Total Xylenes*	<0.150	0.150	12/19/2024	ND	4.83	80.6	6.00	11.7	
Total BTEX	<0.300	0.300	12/19/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	12/20/2024	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	12/20/2024	ND	194	96.9	200	0.962	
DRO >C10-C28*	<10.0	10.0	12/20/2024	ND	188	94.1	200	2.12	
EXT DRO >C28-C36	<10.0	10.0	12/20/2024	ND					

Surrogate: 1-Chlorooctane 80.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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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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

1082

Company Name: Ensolum, LLC
 Project Manager: Samantha Mackenzie
 Address: 601 N. Marlenfield St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 792-377-0345
 Project #: 03131417194 Project Owner: Mesa Verde WPF
 Project Name: Mesa Verde WPF
 Project Location:
 Sampler Name: Kaoru Shimada Nicholas Chris Tokas

P.O. #: Company: Oxy USA, Inc.
 Attn: Wade Dittmer-Tyson
 Address: Pirelle
 City: State: Zip:
 Phone #: 575-300-2928
 Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	BTEX 8021B	TPH 8015M	Chloride 4500Cl	Hold
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:						
<i>H27704</i>	PH01	3.51	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH02	2	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH02	2.5	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH03	1	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH03	3	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH03	3	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH03	4	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH04	4	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	PH04	4	C1	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Relinquished By: *[Signature]*
 Date: 12-19-24
 Time: 1448
 Received By: *[Signature]*
 Date: 12-19-24
 Time: 1448

Turnaround Time: **24 hours**
 Standard Rush
 Thermometer ID #115 #148
 Correction Factor -0.5C
 Bacteria (only) Sample Condition
 Cool Intact Observed Temp. °C
 Yes No
 Corrected Temp. °C

Delivered By: (Circle One) Sampler - UPS - Bus - Other:
 Observed Temp. °C: 6.6
 Corrected Temp. °C: 6.0
 Sample Condition: Cool Intact
 Checked By: (Initials)
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardnallabsnm.com



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

2082

Company Name: Ensolum, LLC		P.O. #:		ANALYSIS REQUEST	
Project Manager: <u>Beau Jennings</u> <u>Georgia</u> <u>Mesquite</u>		Company: OXY USA			
Address: 601 N. Marland St. STE 400		Attn: Wade Pittman			
City: Midland State: TX Zip: 79701		Address: <u>Pyson</u>			
Phone #: (210)219-8858		City: <u>Picnie</u>			
Project #: <u>03B147194</u> Project Owner:		State: Zip:			
Project Name: <u>Mesa Verde VPT</u>		Phone #:			
Project Location:		Email:			
Sampler Name: <u>Kaoru Shimada</u> , <u>Nicholas Christakos</u>		PRESERV.:		SAMPLING	
FOR LABOR USE ONLY		MATRIX:		DATE	
Lab I.D. <u>KA1704</u>		GROUNDWATER		TIME	
Sample I.D. <u>PHOS</u>		WASTEWATER		12-19-24 1442	
Sample Depth (feet) <u>4</u>		SOIL		12-11-24 1511	
		OIL			
		SLUDGE			
		OTHER:			
		ACID/BASE:			
		ICE / COOL			
		OTHER:			
		(G)RAB OR (C)OMP.			
		# CONTAINERS			
		BTEX 8021B			
		TPH 8015M			
		Chloride 4500			
		Hold			

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Retrieved By: KAORU SHIMADA Received By: NICHOLAS CHRISTAKOS
 Date: 12-19-24 Time: 1648
 Delivered By: (Circle One) Sample - UPS - Bus - Other: Observed Temp. °C: 6.6 Corrected Temp. °C: 6.0
 Sample Condition: Cool / Affect No / Yes
 CHECKED BY: (Initials) gpc
 Turnaround Time: 24 hours Standard / Observed Temp. °C: 6.6
 Thermometer ID: #140 Correction Factor: -0.6
 Add'l Phone #: 92-12/19/24



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

December 18, 2025

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

RE: MESA VERDE WPF

Enclosed are the results of analyses for samples received by the laboratory on 12/12/25 13:16.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

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:	12/12/2025	Sampling Date:	12/12/2025
Reported:	12/18/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: OWL LANDFILL (H257718-01)

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	12/15/2025	ND	1.92	96.1	2.00	1.19	
Toluene*	<0.050	0.050	12/15/2025	ND	2.10	105	2.00	2.02	
Ethylbenzene*	<0.050	0.050	12/15/2025	ND	2.13	106	2.00	3.58	
Total Xylenes*	<0.150	0.150	12/15/2025	ND	6.54	109	6.00	3.43	
Total BTEX	<0.300	0.300	12/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 70.4-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	12/15/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2025	ND	235	118	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/15/2025	ND	218	109	200	0.222	
EXT DRO >C28-C36	<10.0	10.0	12/15/2025	ND					

Surrogate: 1-Chlorooctane 83.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 84.9 % 39.9-141

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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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Celey D. Keene

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December 18, 2025

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

RE: MESA VERDE WPF

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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,

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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:	12/12/2025	Sampling Date:	12/12/2025
Reported:	12/18/2025	Sampling Type:	Soil
Project Name:	MESA VERDE WPF	Sampling Condition:	Cool & Intact
Project Number:	03B1417194	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - LEA COUNTY, NM		

Sample ID: MEC PIT (H257719-01)

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	12/15/2025	ND	1.92	96.1	2.00	1.19	
Toluene*	<0.050	0.050	12/15/2025	ND	2.10	105	2.00	2.02	
Ethylbenzene*	<0.050	0.050	12/15/2025	ND	2.13	106	2.00	3.58	
Total Xylenes*	<0.150	0.150	12/15/2025	ND	6.54	109	6.00	3.43	
Total BTEX	<0.300	0.300	12/15/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 70.4-141

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	12/15/2025	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/15/2025	ND	235	118	200	2.41	
DRO >C10-C28*	<10.0	10.0	12/15/2025	ND	218	109	200	0.222	
EXT DRO >C28-C36	<10.0	10.0	12/15/2025	ND					

Surrogate: 1-Chlorooctane 99.4 % 52.4-130

Surrogate: 1-Chlorooctadecane 100 % 39.9-141

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Celey D. Keene, Lab Director/Quality Manager



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

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

OF

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Kelly Lowery
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 214-733-3165 Email: Klowery@ensolum.com
 Project #: 03B1417194
 Project Name: Mesa Verde WPP
 Project Location: Lea County, NM
 Sampler Name: Kaoru Shimada
 P.O. #: 4502742334
 Company: OKY
 Attn: Daniel Sparks
 Address:
 City:
 State: Zip:
 Phone #:
 Email:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (ft)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME	ANALYSIS
H85719	MECC Pit	NA	C	1	GROUNDWATER			12/11/25	1015	BTEX 8021 B
					WASTEWATER					TPH 8015 M
					SOIL					Chlorides 4500
					OIL					TDS
					SLUDGE					
					OTHER:					
					ACID/BASE:					
					ICE / COOL					
					OTHER:					

12-12-25

NEE SK 12-11-2025

12

0402401K

RELINQUISHED BY: [Signature]
 RECEIVED BY: [Signature]
 DATE: 12-12-25
 TIME: 1316

DELIVERED BY: (Circle One)
 Sampler - UPS - Bus - Other:

Observed Temp. °C: 0.5
 Corrected Temp. °C: 0.8

Sample Condition:
 Cool Intact
 Other

CHECKED BY: [Signature]

REMARKS: Paykey/AFE/NonAFE:
 Vertical Result: Yes No
 All Results are emailed. Please provide Email address: klowery@ensolum.com, kshimada@ensolum.com
 Add'l Phone #:
 Turnaround Time: Standard Bacteria (only) Sample Condition
 Rush Cool Intact Observed Temp. °C
 Thermometer ID #1133 #140
 Correction Factor #0.3
 Yes No
 Yes No
 Corrected Temp. °C

FORM-006 R.3.2 10/07/21

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



ATTACHMENT F

C-141 Documentation



District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OXY USA INC.	OGRID	16696
Contact Name	WADE DITTRICH	Contact Telephone	(575) 390-2828
Contact email	WADE_DITTRICH@OXY.COM	Incident # (assigned by OCD)	
Contact mailing address	PO BOX 4294; HOUSTON, TX 77210		

Location of Release Source

Latitude N 32.21428 Longitude W 103.66918
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	MESA VERDDE	Site Type	WATER POLISHING FACILITY
Date Release Discovered	6/3/2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
L	15	24S	32E	LEA COUNTY, NM

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 100 bbls	Volume Recovered (bbls) 75 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

12" STEEL PW LINE CORRODED

Form C-141

State of New Mexico
Oil Conservation Division


Page 2

Incident ID	nAPP2217848858
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release was over 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? yes, by email to OCD email address by Wade Dittrich on June 6, 2022	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
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.
Printed Name: <u>Wade Dittrich</u> Title: <u>Environmental Coordinator</u> Signature: <u></u> Date: <u>6-28-22</u> email: <u>wade_dittrich@oxy.com</u> Telephone: <u>(575) 390-2828</u>
<u>OCD Only</u> Received by: <u>Jocelyn Harimon</u> Date: <u>06/28/2022</u>

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 415915

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2217848858
Incident Name	NAPP2217848858 MESA VERDE WATER POLISHING FACILITY @ 30-025-42947
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-42947] MCCLOY SWD #002

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MESA VERDE WATER POLISHING FACILITY
Date Release Discovered	06/03/2022
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 100 BBL Recovered: 75 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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: 12/30/2024
--	---

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QUESTIONS, Page 3

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	4840
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	0
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	02/28/2025
On what date will (or was) the remediation complete(d)	02/28/2025
What is the estimated surface area (in square feet) that will be reclaimed	4500
What is the estimated volume (in cubic yards) that will be reclaimed	667
What is the estimated surface area (in square feet) that will be remediated	4500
What is the estimated volume (in cubic yards) that will be remediated	667

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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Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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 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: 12/30/2024
--	---

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

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QUESTIONS, Page 5

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 415915

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	411971
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/20/2024
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	28300

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	No
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CONDITIONS

Action 415915

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 415915
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Approved.	1/2/2025

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QUESTIONS

Action 566468

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2217848858
Incident Name	NAPP2217848858 MESA VERDE WATER POLISHING FACILITY @ 30-025-42947
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-42947] MCCLOY SWD #002

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	MESA VERDE WATER POLISHING FACILITY
Date Release Discovered	06/03/2022
Surface Owner	Private

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water 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	
<i>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.</i>	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Flow Line - Production Produced Water Released: 100 BBL Recovered: 75 BBL Lost: 25 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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.
<i>With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.</i>	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 03/25/2026
--	---

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QUESTIONS, Page 3

Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
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 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	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
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

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

Chloride (EPA 300.0 or SM4500 Cl B)	19400
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	31.7
GRO+DRO (EPA SW-846 Method 8015M)	21.5
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	11/22/2024
On what date will (or did) the final sampling or liner inspection occur	11/05/2025
On what date will (or was) the remediation complete(d)	11/05/2025
What is the estimated surface area (in square feet) that will be reclaimed	4500
What is the estimated volume (in cubic yards) that will be reclaimed	667
What is the estimated surface area (in square feet) that will be remediated	4500
What is the estimated volume (in cubic yards) that will be remediated	667

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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QUESTIONS, Page 4

Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)

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

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	fEEM0112342028 LEA LAND LANDFILL
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	No
OR is the off-site disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No

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 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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 03/25/2026
--	--

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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Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
<i>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.</i>	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	522515
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2025
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	200

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	28306
What was the total volume (cubic yards) remediated	2656
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	28306
What was the total volume (in cubic yards) reclaimed	2656
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: Ensolum Company Email: Oxy_Midland@ensolum.com Date: 03/25/2026
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Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

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

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

QUESTIONS, Page 7

Action 566468

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

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	No

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CONDITIONS

Action 566468

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 566468
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/11/2026