

January 23, 2025

#### **New Mexico Oil Conservation Division**

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

Re: Remediation Workplan
Sand Dunes 28 Fed #1 SWD
Incident Number NAPP2218940420
Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA Inc. (Oxy), has prepared this *Remediation Workplan* to document assessment, delineation, and soil sampling activities performed at the Sand Dunes 28 Fed 1 SWD (Site). The purpose of the Site assessment, delineation, and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a crude oil and produced water release at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Oxy is submitting this *Remediation Workplan* to request a depth to water variance within 0.5-miles of the Site needed for closure.

# SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 28, Township 23 South, Range 31 East, in Eddy County, New Mexico (32.273598°, -103.780617°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On July 5, 2022, equipment failure on an injection flowline resulted in the release of approximately 15 barrels (bbls) of produced water spilled outside of a lined containment. A vacuum truck was dispatched to the Site to recover 1 bbl of free-standing fluids. Oxy reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on July 8, 2022. The release was assigned Incident Number NAPP2218940420.

# SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the 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). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Site receptors are identified on **Figure 4**.

Depth to groundwater at the Site is reasonably estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Society (USGS) well 321648103482101, located approximately 1.5 miles northwest of the Site. The depth to water was most recently measured on September 20, 1972 and indicated to be 139.9 feet bgs. In addition, New Mexico Office of the State Engineer documents well C-04553 POD 1, installed July 30, 2021, and located approximately 0.9 miles

Oxy USA Inc. Remediation Workplan Sand Dunes 28 Fed #1 SWD

to the west of the Site, was drilled to 106 feet and encountered no water. The associated well records are included in **Appendix A**.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 11,088 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Closure criteria is 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/kgChloride: 20,000 mg/kg

# **LINER INSPECTION ACTIVITIES**

On June 24, 2024, Ensolum arrived onsite to conduct a site assessment and liner inspection. Ensolum did not see any abnormalities or faults with the liner.

#### **DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS**

Between June 24, 2024 and July 30, 2024, Ensolum personnel conducted Site delineation activities to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven boreholes (PH01 through PH07) were advanced via backhoe within the release extent to assess for the presence or absence of impacted soil. The delineation boreholes were advanced to depths ranging from 0.5 feet to 4 feet bgs. In addition, six delineation soil samples (SS01 through SS04, DS01 and DS02) were collected around the release area, at depths ranging from 0.25 feet to 0.5 feet bgs to confirm the lateral extent of the release. Discrete soil samples were collected from each delineation pothole at depths ranging from 0.5 ft to 4 ft bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): 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 SM4500Cl-B.

#### CONFIRMATION SOIL SAMPLING AND EXCAVATION ACTIVITIES

Between October 7, 2024 and November 5, 2024, Ensolum personnel returned to the Site to complete confirmation soil sampling of the release extent. Twenty soil samples (CS01 through CS20) were collected every 200 square feet at a depth of 0.25 feet bgs to confirm compliance with the reclamation



Oxy USA Inc. Remediation Workplan Sand Dunes 28 Fed #1 SWD

requirements. Additionally, four hydrovac excavations were completed in the areas indicative of limits outside the reclamation requirements. These areas were resampled and renamed FS01 through FS07 respectively. Six soil samples (SW01 through SW06) were collected along the sidewalls of the hydrovac excavations every 200 square feet. The soil samples were field screened for VOCs and chloride. The soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 3**. Photographic documentation was completed during the Site visit and a photographic log is included as **Appendix B**.

Laboratory analytical results for soil samples PH01 through PH07, CS01 through CS03, CS05 through CS07, CS09, CS10, CS13 through CS15, CS17 through CS20, FS01 through FS07, and SW01 through SW06 collected within the release area and soil samples SS01 through SS04, DS01, and DS02 collected around the release area indicated all COC concentrations were compliant with the reclamation requirement.

# **VARIANCE REQUESTS**

# **Groundwater Variance**

Based on a desktop review of the surrounding area, there is one NMOSE permitted well (C-04553-POD1) and one USGS permitted well (well 321648103482101) with depths to groundwater greater than 100 feet bgs as shown in **Figure 4**. The Well Records for both wells can be found as Supporting Documentation in **Appendix A**. However, USGS well 321648103482101 was completed in 1972, therefore its data is greater than 25 years of age and is approximately 1.5. As well, NMOSE well C4553-POD1 is approximately 0.9 miles west of the Site, which is outside the permissible 0.5-mile radius.

Ensolum, on behalf of Oxy, would like to request a depth to groundwater Closure Criteria Variance for the Site based on the information provided above and included as Supporting Documentation in **Appendix A** to reflect groundwater greater than 100 feet as shown in Table I of 19.15.29.12 NMAC for any on-pad remediation greater than 4 feet bgs.

# PROPOSED REMEDIATION WORKPLAN

Oxy is requesting a depth to water variance which would cease the need for any further work to be completed at the site. Oxy believes the remediation activities described above are protective of human health, the environment, and groundwater. As such, Oxy respectfully requests approval of this Remediation Workplan.

If you have any questions or comments, please contact Mr. Beaux Jennings at (210) 219-8858 or <a href="mailto:bjennings@ensolum.com">bjennings@ensolum.com</a>.

Beaux Jennings

Associate Principal

Sincerely, **Ensolum**, **LLC** 

Amarka Malkarie Samantha MacKenzie

Staff Geologist

CC:

Wade Dittrich, Oxy USA Inc.

Tyson Pierce, Oxy USA Inc.

BLM



Oxy USA Inc. Remediation Workplan Sand Dunes 28 Fed #1 SWD

# Appendices:

Figure 1 Topographic Map Figure 2 Site Vicinity Map

Figure 3 Site Map

Figure 4 Closure Criteria Map Figure 5 Backfill Site Map

Table 1 Soil Sample Analytical Results

Table 2 Backfill Soil Sample Analytical Results

Appendix A Referenced Well Records

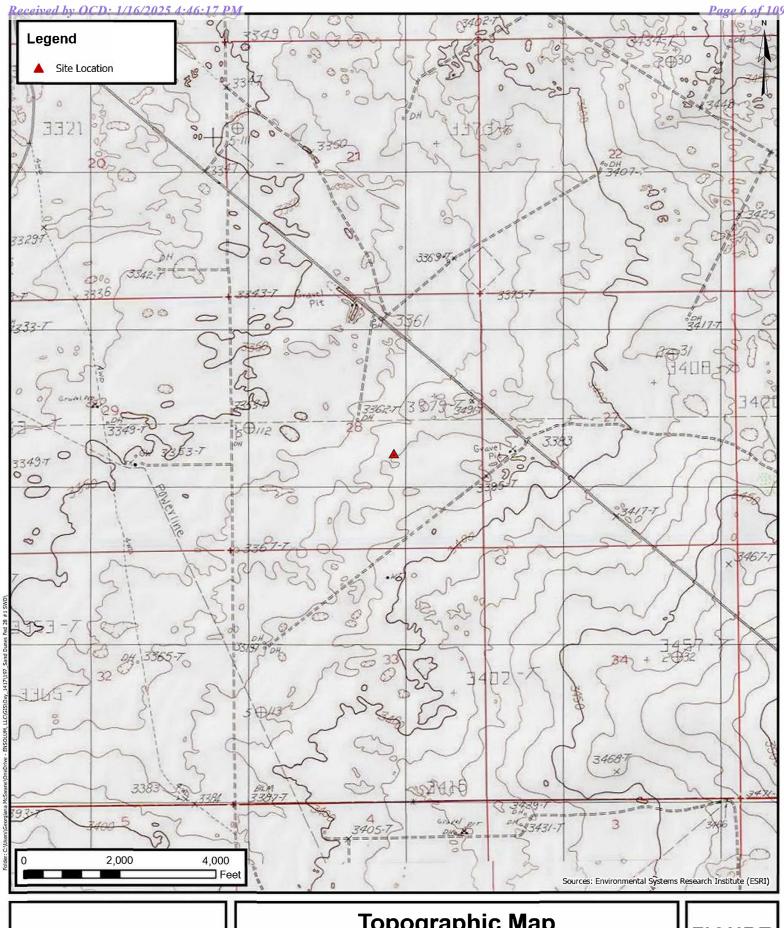
Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation





**FIGURES** 





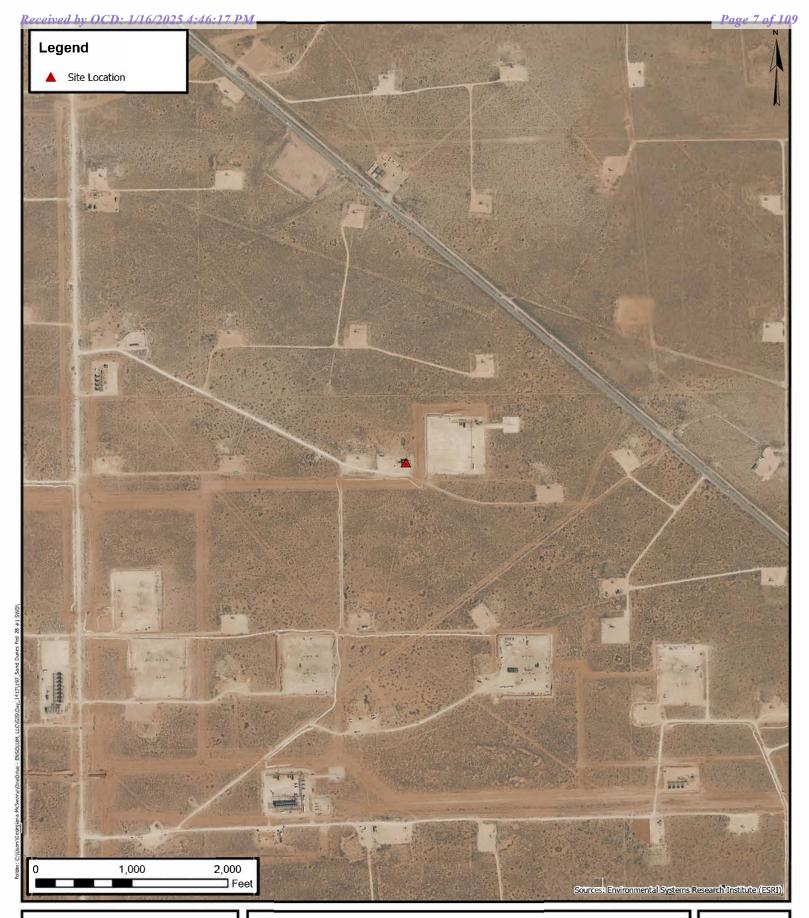
# Topographic Map Oxy USA Inc.

Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE

Released to Imaging: 1/23/2025 1:15:11 PM



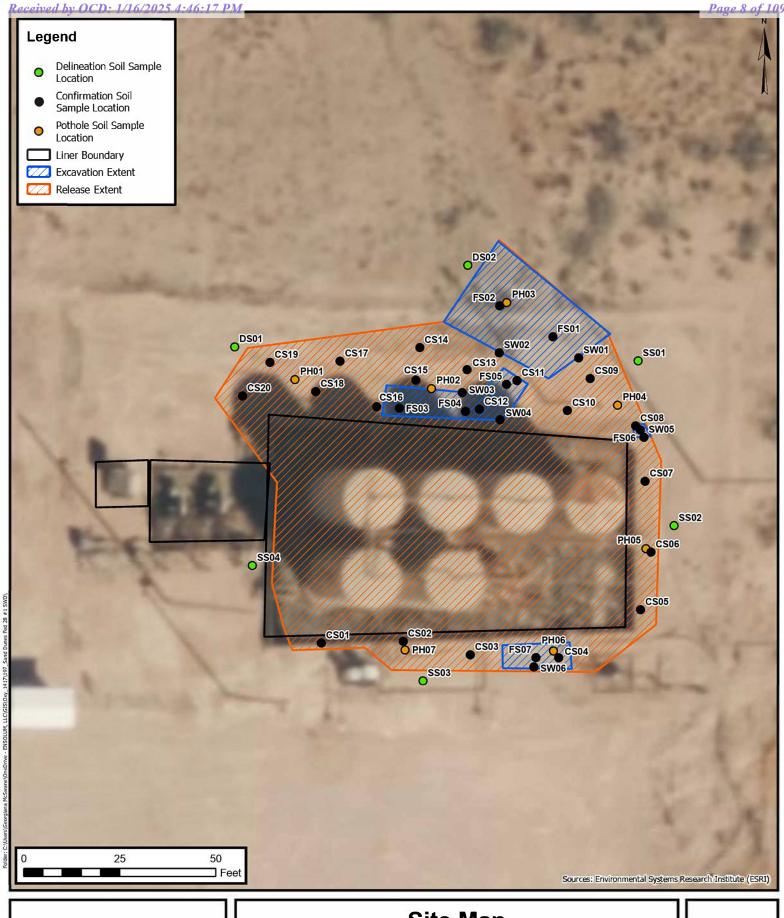


# Site Vicinity Map

Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

**FIGURE** 2





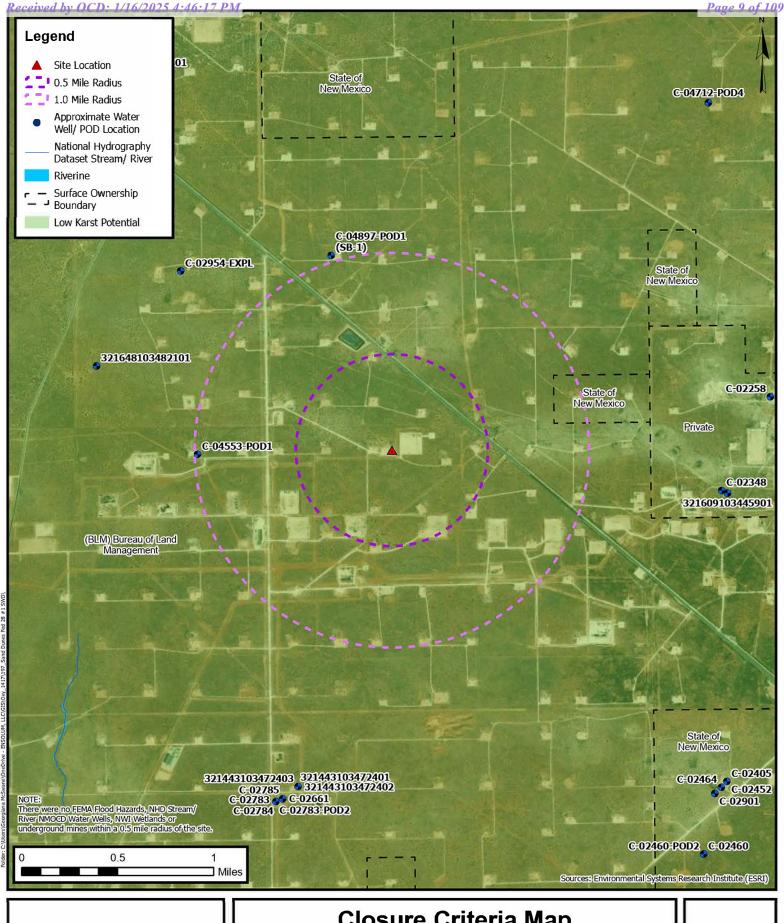
# Site Map

Oxy USA Inc.
Sand Dunes 28 Fed #1 SWD
32.273598° N, 103.780617° W
Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

FIGURE 3

Released to Imaging: 1/23/2025 1:15:11 PM





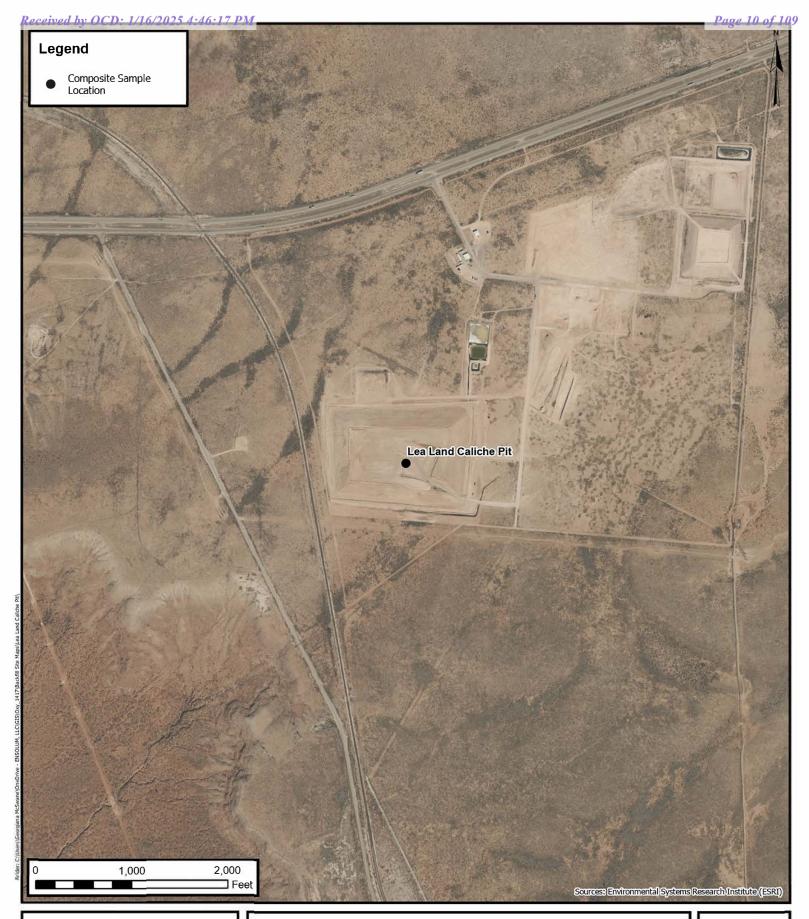
Released to Imaging: 1/23/2025 1:15:11

# **Closure Criteria Map**

Oxy USA Inc. Sand Dunes 28 Fed #1 SWD 32.273598° N, 103.780617° W Eddy County, New Mexico

PROJECT NUMBER: 03B1417215

**FIGURE** 4





# **Backfill Site Map**

Lea Land Caliche Pit 32.5232397° N, 103.7845410° W Lea County, New Mexico FIGURE 5



**TABLES** 



#### TABLE 1

# SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Federal #001 SWD Oxy USA Inc. Eddy County, New Mexico

						Project No. (							
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH ORO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH GRO+DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NMOCI	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
					Po	othole Soil Sample	Analytical Resu	ilts					
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	960
PH01	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,620
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
PH02	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	2,840
PH03	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH04	07/02/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
PH05	07/02/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,500
PH06	07/02/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	816
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,060
	07/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
PH07	07/02/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
	07/02/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
					Deli	neation Soil Sam	ole Analytical Res	sults					
SS01	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS02	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
SS03	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	07/30/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
DS01	11/05/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	11/05/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0



#### TABLE 1

# SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Federal #001 SWD Oxy USA Inc. Eddy County, New Mexico

						Project No. (	3B1417215						
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH ORO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH GRO+DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NMOCI	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
					Confi	rmation Soil Sam	ple Analytical Re	sults					
CS01	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	8,320
CS02	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.7	17.3	17.7	35.0	3,600
CS03	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.8	57.0	62.8	119.8	2,360
ÇS04	10/07/2024	0.25	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	1,660	989	1,660	2,649	3,320
CS05	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	251	147	251	398	4,560
CS06	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	12.5	<10.0	12.5	5,600
CS07	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	157	346	503	1,630
CS08	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	5,170	2,240	5,170	7,410	1,840
CS09	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	12.4	16.7	12.4	29.1	224
CS10	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	47.3	34.6	47.3	81.9	3,080
CS11	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,750	919	1,750	2,669	2,000
CS12	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	3,790	1,590	3,790	5,380	3,200
CS13	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	11.2	<10.0	11.2	11.2	224
CS14	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	6,800
CS15	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	153	70.6	153	223.6	6,960
CS16	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	6,080	2,280	6,080	8,360	5,200
CS17	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
CS18	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
CS19	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256
CS20	10/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	457	174	457	631	624

# ENSOLUM

#### TABLE 1

#### SOIL SAMPLE ANALYTICAL RESULTS Sand Dunes 28 Federal #001 SWD Oxy USA Inc.

Eddy County, New Mexico Project No. 03B1417215

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toulene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C <sub>6</sub> -C <sub>10</sub> (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH ORO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH GRO+DRO C <sub>6</sub> -C <sub>28</sub> (mg/kg)	TPH Total C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
NMOCI	D Table I Closure (NMAC 19.15.29)		10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
	Excavation Soil Sample Analytical Results												
FS01	07/29/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	07/29/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS03	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	764	277	764	1,041	928
FS04	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	273	104	273	377	528
FS05	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	62.2	21.5	62.2	83.7	1,410
FS06	11/05/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	24.3	<10.0	24.3	24.3	96.0
FS07	11/05/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.9	<10.0	17.9	17.9	96.0
					Excavati	on Sidewall Soil S	Sample Analytica	l Results					
SW01	07/29/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW02	07/29/2024	0-4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
SW03	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW04	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	11/05/2024	0-0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW06	11/05/2024	0-1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

#### Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics TPH: Total Petroleum Hydrocarbon Concentrations in **bold** and yellow exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

Concentrations filled in have been excavated



# TABLE 2 BACKFILL SOIL SAMPLE ANALYTICAL RESULTS

Lea Land Caliche Pit Oxy USA, Inc. Lea County, New Mexico Ensolum Project No. NA

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)		10	NE	NE	NE	50	NE	NE	NE	100	600	
Composite Background Soil Sample Analytical Result												
Lea Land Caliche Pit	09/13/2024	NA	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	98.6	<10.0	98.6	560

bgs: below ground surface mg/kg: milligrams per kilogram

NA: Not Applicable
NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records



# **BOREHOLE LOG** C-4553 POD 1

PROJECT NUMBER C-4553 POD 1 PROJECT NAME Soil Boring - DTG

**CLIENT** OXY USA, Inc

ADDRESS PO Box 4294, Houston TX 77210 LICENCE NO. WD-1035 Edd Coffey

**DRILLING DATE** 7/30/2021 TOTAL DEPTH 103 feet DIAMETER 8-3/4" **CASING** uPVC

SCREEN uPVC Manually Slotted

**COORDINATES** 32.27335 N, -103.78742

COORD SYS WGS 84

**COMPLETION** Plugged and Abandoned SURFACE ELEVATION 3357 ft MSL

**COMMENTS** South of large mesquite bush - west side of pad

LOGGED BY John Farrell P.G.

COMMENTS South of large me	squite busii - west side oi pad		Dan Dunkelburg	1
Graphic Log	Material Description	Plugging	g Diagram	Elevation (ft)
	Sand, red, dry			5
	Caliche, white, dry		10 Haliburton Hole Plug + 5 gal water/bag	- 10 - 15
	Claystone, silty, reddish orange, dry		backfill	- 20 - 25 - 30 - 35 - 40 - 45 - 50 - 65 - 70 - 75 - 80 - 85 - 90 - 100
	Termination Depth at:103 feet			F

# **ENVIRONMENTAL WELL** BH01 Env Well

PROJECT NUMBER NMOSE # C4553 Pod 1

PROJECT NAME Soil Boring

**CLIENT** OXY

ADDRESS P O Box 4294, Houston TX 77210

DRILLING DATE 07 LICENCE NO. L312-Nb4 **DRILLING COMPANY** ABC Drilling

DRILLER Mr M. Brown

DRILL RIG

**DRILLING METHOD** Augering Hollow Flight

TOTAL DEPTH 14 DIAMETER **COORDINATES** 4581.8, 6021

COORD SYS

**SURFACE ELEVATION** 45.15

**WELL TOC** A=45.2; B=45.23; C=45.17

LOGGED BY JB CHECKED BY M. Smart

 COMPLETION
 CASING uPVC
 SCREEN uPVC Factory Slotted

**COMMENTS** Near the corner of the main shed

Depth (m)	Drilling Method	PID	Samples	Sample Type	Is Analysed?	Water			II ation	Graphic Log	Material Description	Moisture	Consistency	Additional Observations	Elevation (m)
							a	M	KI K	77777	ASPHALT: Hard	1	H		<del>- 45</del>
_ _ 1 			√BH01_2-2.1 \	/ss\			\$0.50000 X	9018290182901829018290182 <u> </u>			SILTY CLAY: Silty red clay with minor organic matter, Dry, Dense	D	D	Old pipework	- - 44 - -
- 2 -		82	PBH01_2-2.1 C	733 (	1		360000 30000000000000000000000000000000	\$0.00 \$0.00 \$0.00							- 43
							96 95								<u>-</u>
- 3 - - -							25.03.05.05.05.05.05.05.05.05.05.05.05.05.05.	90 (ARC) 90							42 
<u>     4                               </u>							<b>36</b>	3486							- 41
F							5000	2000 2000 2000							
- 5			BH01_5-5.3	SS	Y	-	000	2000							- 40
-						1 T	050000 0500000	00000							_
6		6	BH01_5.8-6	ss\	1	∑		:: Doors		/////	GRAVELLY SAND: Wet, Dense	w	D	Petroleum	_ _ 39
_			BH01_6.4-6.8	SS	Y	1				O	ON WELLT SAND. WOL, BOILDS			Smell	<u>-</u>
7	AU														
_										0.0					-
8			BH01_8-8.3	SS	Y	-				0.00	SILTY CLAY: Dry, Dense	D	D		_ _ 37
_		34	BH01_8.4-8.5	(SS)	Ė						OILTT OLAT. BTy, Belise				-
_ _ 9								4		/////	SANDY GRAVEL: Dry, Dense	D	D		- - 36
											SANDT GRAVEL. DIY, Delise				-
- - 10			BH01 10 10 5	SS	Y	-									- - - 35
E			BH01_10-10.5	33	Ť	-				0.00					- 33
- - 11							///			+ 000	ODANITE: Hinkhoon the and annuite				- - 34
E										+ +	GRANITE: Highly weathered granite, Dry, Hard	D	H		_ 3 <del>4</del> _
- - 12								<u>////</u>		+ +					-
E										+ +					- 33 -
- - 13							 O	····		+ +					<u> </u>
E										+ +					- 32 -
14										+ +	T	_			24
Ė											Termination Depth at:14 m				— 31 
			l .		L					1		1	L	l	

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

Page 1 of 1

# **ENVIRONMENTAL BOREHOLE / TESTPIT TP04**

PROJECT NUMBER Sample HGC
PROJECT NAME Sample Hydrogeo & Contam

**CLIENT** Redev Pty Ltd

ADDRESS 1 Hybiscus Blvd, Alderville

DRILLING DATE 13/08/2009 1:04:00 PM DRILLING COMPANY PGCI Drilling
DRILLER John McMullan
DRILLING METHOD Excavator
TOTAL DEPTH 4

COORDINATES 4520, 6356

COORD SYS
SURFACE ELEVATION

LOGGED BY Igor Krinitskiy
CHECKED BY

# COMMENTS

Depth (m)	PID	Penetration Resistance	Samples	ls Analysed?	Graphic Log	nscs	Material Description	Additional Observations
_					\ \\\\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		TOPSOIL: PT Dark brown, moist. High Orgainc content., Saturated	
- 0.5 1 						SC	CLAYEY SAND: SC, pale greenish brown medium bedding thickness, laminated, fine to medium, poorly graded, subangular, flat and elongated clayey silty sand Calcareous little chert, some coal, moist, weak HCL reaction, weak cementation, widely fissured	iron oxide staining, no odour
- - - - 2 - -	4000		TP04_2.5	Ŷ				
2.5  	4000		11 04_2.5	'			SANDSTONE: very dark brownish gray thickly crossbedded, bioturbated, flow banded, medium grained clayey quartz sandstone, Dry, very hard, very wide fracture spacing, moderately weathered, 60 deg	iron oxide staining, slight
- 3 -	4				+ +		(Primary) bedding angle  GRANITE:	odour staining, slight
- - - 3.5 - -							Termination Depth at:3.2 m	
- - 4 -								
- - 4.5 - -								
- - - 5 - -								
_ 5.5 - -								



**National Water Information System: Web Interface** 

**USGS** Water Resources

<b>USGS Hom</b>	е
<b>Contact US</b>	GS
Search USO	S

Data Category:		Geographic Area:		
Groundwater	~	New Mexico	~	GO

#### Click to hideNews Bulletins

- Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News 🔊

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 =

• 321648103482101

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

### USGS 321648103482101 23S.31E.29.11333

Eddy County, New Mexico Latitude 32°16'48", Longitude 103°48'21" NAD27 Land-surface elevation 3,336 feet above NAVD88 The depth of the well is 220 feet below land surface.

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

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

#### **Output formats**

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

Released to Imaging: 1/23/2025 1:15:11 PM

.

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
1959-03-26		D	62610		3195.91	NGVD29	1	Z			Α
1959-03-26		D	62611		3197.57	NAVD88	1	Z			А
1959-03-26		D	72019	138.43			1	Z			А
1972-09-20			62610		3194.44	NGVD29	Р	Z			А
1972-09-20		D	62611		3196.10	NAVD88	Р	Z			А
1972-09-20		D	72019	139.90			Р	Z			А

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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	Р	Pumping
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	А	Approved for publication Processing and review completed.

Questions or Comments
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: <u>New Mexico Water Data Maintainer</u> Page Last Modified: 2024-06-11 12:12:03 EDT

0.27 0.23 nadww01





APPENDIX B

Photographic Log



# **Photographic Log**

Oxy USA, inc.
Sand Dunes 28 Fed #1 SWD
Incident Number: NAPP2218940420





Photograph: 1

Description: Liner Inspection

View: North

Date: 6/24/2024 PI

Photograph: 2

Description: Liner Inspection

View: Southeast





Photograph: 3

Date: 7/2/2024

Photograph: 4

Date: 7/2/2024

Date: 6/24/2024

Description: Release Extent

View: East

Description: Potholing Activities

View: West



# **Photographic Log**

Oxy USA, inc.
Sand Dunes 28 Fed #1 SWD
Incident Number: NAPP2218940420





Photograph: 5 Date: 7/29/2024

Description: Excavation Activites

View: West

Photograph: 6 Date: 10/7/2024

Description: Excavation Activites

View: Southeast





Photograph: 7 Date: 11/5/2024

Description: Excavation Activites

View: South

Photograph: 8 Date: 11/5/2024

**Description: Excavation Activites** 

View: South



**APPENDIX C** 

Laboratory Analytical Reports & Chain of Custody Documentation



July 10, 2024

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/03/24 9:57.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Project Location: EDDY COUNTY, NM

# Sample ID: PH 01 0.5 (H244000-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	101	2.00	3.42	
Toluene*	<0.050	0.050	07/09/2024	ND	2.16	108	2.00	4.76	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.24	112	2.00	3.58	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.87	115	6.00	2.66	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	99.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 San

ma/ka

Reported: 07/10/2024
Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: PH 01 1 (H244000-02)

RTFY 8021R

BIEX 8021B	mg	/ <b>kg</b>	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	QM-07, QR-03
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	QM-07, QR-03
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	QM-07, QR-03
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	QM-07, QR-03
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	95.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

ma/ka

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: PH 01 2 (H244000-03)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	07/09/2024	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	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	89.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.3	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: PH 02 0.5 (H244000-04)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
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	07/09/2024	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	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	97.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: PH 02 1 (H244000-05)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	07/09/2024	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	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.6	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keine



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

# Sample ID: PH 02 2 (H244000-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
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	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: EDDY COUNTY, NM

ma/ka

# Sample ID: PH 03 0.5 (H244000-07)

RTFY 8021R

B1EX 8021B	mg	/ <b>kg</b>	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 1 (H244000-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene



# Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

ma/ka

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

# Sample ID: PH 03 2 (H244000-09)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	07/09/2024	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	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	107 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NM

mg/kg

### Sample ID: PH 04 0.5 (H244000-10)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: PH 04 2 (H244000-11)

BTEX 8021B

	9/	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported:

07/10/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

### Sample ID: PH 04 4 (H244000-12)

Project Name:

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

Project Name: SAND DUNES
Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: PH 05 0.5 (H244000-13)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
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	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

### Sample ID: PH 05 3 (H244000-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: PH 05 4 (H244000-15)

Project Name:

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported:

07/10/2024

SAND DUNES FED 28 #1 SWD

Project Number:

Project Name:

BTEX 8021B

03B1417198

mg/kg

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Shalyn Rodriguez

### Sample ID: PH 06 1 (H244000-16)

	9/	9	7						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.7	% 49.1-14	8						

Analyzed By: JH

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Reported: 07/10/2024

Project Name: SAND DUNES FED 28 #1 SWD

mg/kg

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/02/2024

Sampling Type: Soil Sampling Condition: Cool & Intact

Sample Received By: Shalyn Rodriguez

### Sample ID: PH 06 3 (H244000-17)

BTEX 8021B

DILX GOZID	11197	ng .	Allulyzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	07/09/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	94.3	94.3	100	0.663	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.0	91.0	100	0.652	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.1	% 49.1-14	8						

Analyzed By: JH

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07/02/2024

Cool & Intact

Shalyn Rodriguez

Sampling Date:

Sampling Condition:

Sample Received By:

### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024

82.4 %

49.1-148

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sample ID: PH 06 4 (H244000-18)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	91.75	% 48.2-13	4						

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Surrogate: 1-Chlorooctadecane



### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NM

mg/kg

### Sample ID: PH 07 0.5 (H244000-19)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.0	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024

Reported: 07/10/2024 Project Name: SAND DUNES FED 28

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417198

ma/ka

Project Location: EDDY COUNTY, NM

Sampling Date: 07/02/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

### Sample ID: PH 07 1 (H244000-20)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.3	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

ENSOLUM, LLC HADLIE GREEN 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/03/2024 Sampling Date: 07/02/2024

Reported: 07/10/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417198 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EDDY COUNTY, NM

mg/kg

### Sample ID: PH 07 4 (H244000-21)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/09/2024	ND	2.01	100	2.00	1.50	
Toluene*	<0.050	0.050	07/09/2024	ND	2.00	99.9	2.00	0.540	
Ethylbenzene*	<0.050	0.050	07/09/2024	ND	2.03	101	2.00	0.146	
Total Xylenes*	<0.150	0.150	07/09/2024	ND	6.00	100	6.00	0.162	
Total BTEX	<0.300	0.300	07/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/09/2024	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/09/2024	ND	95.7	95.7	100	0.272	
DRO >C10-C28*	<10.0	10.0	07/09/2024	ND	91.8	91.8	100	0.490	
EXT DRO >C28-C36	<10.0	10.0	07/09/2024	ND					
Surrogate: 1-Chlorooctane	68.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.4	% 49.1-14	8						

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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. 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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Celeg D. Freene

Relinquished By:

hour

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

Observed Temp. Corrected Tem

Sample Condition
Cool Intact
Pes Pes
No No

CHECKED BY: (Initials)

Turnaround Time:

RP 7 3 24.

Standard

Thermometer ID #113 #140

Corrected Temp. °C Observed Temp. °C Grade Smy soid

is worker 105 sed. cared

TABLE

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hypen a Eusplum, Com

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

Time:

Received By:

Received By

Relinquished By:

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	solum, LLC			BILL T	70		ANALYSIS REQUEST	
Project Manager:	Hadjo Green	5						
Address: 601 N Marienfeld Street, Suite 400	enfeld Street, Sui	e 400		120 1/XO	Pri			
City: Midland		State: TX	Zip: 79701	Attn: was	Dittrach			
Phone #: 472-	-557-8895	Fax #:		Address:				
Project #: 038	(417/a8	Project Owner:		City:				
Project Name: \	and pures F	1#82 May 28 #1	#1 SWD	State: Zip:				
Project Location:	Eddy County, NM	MM		#		70		Water State of the
Sampler Name:	NKD			Fax #		-50		
EOB LAB LISE ONLY	SOURCE CONTRACTOR OF THE PROPERTY OF THE PROPE		MATOIV	ECEDIA	CAMPINO	4		
		all all of the second of the s	R			e5		at week and the second
Lab I.D. S	Sample I.D.	Depth (feet)	RAB OR (C)(CONTAINERS OUNDWATE ASTEWATER IL D)	HER: ID/BASE: I/COOL HER:	RTEV	TPH Chiowd		
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P	HO	_	\(\rac{1}{2}\)	X TAC	( of )	×>		
W	104	2		X 7h	X 2012	X		
	CHO2	5,0	<u>∧</u>	x 7/2/	X 5101 PG	X		
St.	LOH (		> - ×	X 7/2	124 1020 X	7		
6	7402	30		x Thi	X 924 ) m	X -		
7 2	2040	8,0	○		-	×-		
80	403		\(\)	x 7/7/	X 259 th	X X X		
3	CQH93	12-	C - X	x 76/20	7	< <		
10	) FSF	5.0	C - X	× 7/2/2	00	× >		
PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal b	ges. Cardinal's liability and clie for negligence and any other c e liable for incidental or conseq	it's exclusive remedy for any ause whatsoever shall be dec uental damages, including wi	PLEASE NOTE: Liability and Damages. Cardina'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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.	r tort, shall be limited to the amoun received by Cardinal within 30 days ss of use, or loss of profits incurred	t paid by the client for the after completion of the applic by client, its subsidiaries.		-	
service. In no event shall Cardinal b	e liable for incidental of conseq	uental damages, including w	rthout limitation, business interruptions, Ic	ss of use, or loss of profits incurred	by client, its subsidiaries,			

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Bacteria (only) Sample Condition
Cool Intact Observed Temp.

| Yes | Yes | No Corrected Temp.

### oratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	ium, LLC					BILL	L 70				NA	SISA IVNV	מכט	RECHEST		The second second second		
Project Manager:	Hodile Green				P.O. #:			_			-		- 1	- 0		1	_	
Address: 601 N Marienfeld Street, Suite 400	feld Street, Suit	e 400			BX	X2014,	A, Inc							Professional State of				
City: Midland		State: TX	Zip: 79701	9701	Attac		de DILAMOLA	5								-		
Phone #: 432-5	57-8895	Fax #:			Address:													
Project #: 07 p (4)	7 (98	Project Owner:			City:					-						Marine Cont		
Project Name: 'Yourd	Junes Fed	28 # Sw	0		State:	Z	Zip:											
Project Location: [c	Edot Court NM	NN			Phone #					)								
Sampler Name: N	NKD				Fax #:					500	-							
FOR LAB USE ONLY		SAPULKE SISS		MATRIX	PRE	PRESERV.	SAMPLING			4								
	(Mahadala Instrumenta		And the Real Property lies							25	***************************************			***********				
Lab I.D. Sar	Sample I.D.	Depth (feet)	OR (C)	IDWATER	ASE:			<b>b</b> /	Maria and American States of the States of t	onde	Water Control							
00004489					OTHER	CE / CC	DATE	RT	TP	Che			***************************************					
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	105	100	) /	. ~.		2	# 12/2/	X	~	×						tok	5260 anst	S,
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S X	450	9	 50			1~1	000	NO X	X	X								
3	193		7/	<b>*</b>		12	10	7	<	×	+							
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	Cardinal's liability and client	's exclusive remedy for any	claim arising	g whether based in contract	or tort, shall be	limited to the	amount paid by the cli	client for the	×	_	THE REAL PROPERTY.							
service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of teach of loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal reparties or whether such slam is besent up on loss of profits incurred by client, its subsidiaries,	lated to the performance of	ental damages, including wi	emed warver ithout limitati dinal regard	warved unless made in writing and received by Cardinal within 30 days after completion of the tlimitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiarie regardless of whether such claim is besend upon sense the thints incurred.	received by Coss of use, or lo	ardinal within	30 days after completing after completing after complete the complete	on of the applic bsidiaries,	able									
Relinquisned By:		2	Received By:	ed By:			Verba	Verbal Result:	☐ Yes	No M	Add'I	Add'l Phone #:						
Mary and		10957	9	Modelan	2	les !	2	NYMEROCK SIMM ( SIM	1872	Slum (Oh	W CALCE LIN	an auure	ď.					
nelliquistied by:		Date:	Received By:	ed By:	•	0	REMA	REMARKS: SOM	される	bus 14, 1	14, 15, 19, 20	10.		The te	ord world tossay	Sad		
Delivered By: (Circle One)		4					200		Samples	U	3	7 6	M-50.1		10:24	Manago natas		
Sampler - LIBS - Bus On		Sierved In	·-	Cool Intact		(Initials)		Turnaround Time:		Standard Rush	B	Bacteria (on Cool Intact	y) s	Bacteria (only) Sample Condition	Observed Temp °C			
FURM-000 R 3.2 10/0/12		Corrected lemp.		Ves 1 Yes No No	×	K	Thermo	Correction Factor 10.5°C	418 0.5°C	世る		Yes Yes	o s	Corrected	Corrected Temp. °C			
TO A THE SHALL STATE TO THE ACTION OF THE SHALL		+ Cardinal cannot	not ac	and market abou					DESCRIPTION OF THE PERSON NAMED AND ADDRESS OF THE PERSON NAME		The state of the s		-	00110000	Tomp. O			

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Page 25 of 26

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	Ensolum, LLC		BII I TO		
Project Manager:	(tadie Green				ANALISIS REQUESI
Address: 601 N N	Address: 601 N Marienfeld Street, Suite 400	te 400	のアンダーたへ		
City: Midland		State: TX Zip: 79701	Attn: wade pitteden	754	
Phone #: 472	432-557- 8895	Fax #:	Address:		
Project #: 07 B (417 [98		Project Owner:	City:		
Project Name: 50nd	and Dunes Fed	PS #82	State: Zip:		
Project Location:	Eddy (burty	NIM	#		
Sampler Name:	NKD		Fax #:	00	
FOR LAB USE ONLY		MATRIX			
		RS TER ER		Χ.	
Hayyyoo	Sample I.D.	(G)RAB OR ( # CONTAINE GROUNDWA WASTEWATE SOIL DIL	SLUDGE  OTHER:  ACID/BASE:  CE/COOL  OTHER:	BTE: TPH (htex)	
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	107	TIKA -			
		1724			
DI FACE NOTE: I is with and D.	Proposition II II III III				
analyses, All claims including th service. In no event shall Cardin affiliates or successors arising or	analyses. All claims including those for negligence and any other of service. In no event shall Cardinal be liable for incidental or consequentiates or successors arising out of or related to the performance	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed valved unless made in witing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental 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.	unce, or unit, small be limited to the amount paid to g and received by Gardinal within 30 days after or part of the state of the part of the state of the part of the state o	y the citent for the ompletion of the applicable nt, its aubsidiaries, or otherwise.	
Men fun	hur	Time 957 Slow	Manch !	ult: ☐ Yes ☐ No are emailed. Please prov NG CUSDUM, (1914)	Add'I Phone #: ide Email address:
Nelliquisited by.		Time: Received By:	9	REMARKS:	
Delivered By: (Circle One)		Observed Temp. °C 2.4 Sample Condition	CHECKED BY:	Turnaround Time: Standard	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:		Corrected Temp. °C TYes Tes	(Initials)	Street, or other Designation,	☐ Cool Intact Observed Temp. °C
FURMI-000 K 3.Z	12/10/0/12	NO		Correction Factor 0.5 C T 1	│ Nc │ No Corrected Temp, °C

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Thermometer ID #113 + 140

Corrected Temp. °C



August 01, 2024

**BEAUX JENNINGS** 

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/29/24 16:31.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Celey D. Keene

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



### Analytical Results For:

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

 Received:
 07/29/2024
 Sam

 Reported:
 08/01/2024
 Sam

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: FS 01 4 (H244505-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	189	94.5	200	3.63	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	178	88.9	200	7.58	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	112 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Freene



### Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

Project Name: SAND DUNES FED 28 #1 SWD

ma/ka

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM

Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: FS 02 4 (H244505-02)

RTFY 8021R

B1EX 8021B	mg/	кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	204	102	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	195	97.3	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	114 %	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



### Analytical Results For:

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

Received: 07/29/2024 Reported: 08/01/2024

SAND DUNES FED 28 #1 SWD

Project Name: Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: SW 01 0-4 (H244505-03)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	204	102	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	195	97.3	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

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

Received: 07/29/2024 Reported:

08/01/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417198

Project Location: EDDY COUNTY, NM Sampling Date: 07/29/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: SW 02 0-4 (H244505-04)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/30/2024	ND	1.92	96.0	2.00	6.92	
Toluene*	<0.050	0.050	07/30/2024	ND	2.02	101	2.00	6.41	
Ethylbenzene*	<0.050	0.050	07/30/2024	ND	2.10	105	2.00	6.15	
Total Xylenes*	<0.150	0.150	07/30/2024	ND	6.46	108	6.00	5.87	
Total BTEX	<0.300	0.300	07/30/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	07/30/2024	ND	448	112	400	3.51	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/30/2024	ND	204	102	200	4.71	
DRO >C10-C28*	<10.0	10.0	07/30/2024	ND	195	97.3	200	0.823	
EXT DRO >C28-C36	<10.0	10.0	07/30/2024	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100 9	% 49.1-14	8						

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below  $6^{\circ}\text{C}$ 

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

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Celey D. Keine



### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

	Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Relinquished By:	Topics	Relinquished By:	affiliates or successors arising o	All claims including those for re in no event shall Cardinal be lie	PLEASE NOTE: ListNity and Dany				Ω	u	2		SWITCH SWITCH	Lab I.D.	FOR USE ONLY	Sampler Name: Kaoru Shimada	Project Location:	Project Name:	Project #: 1738	Phone #: (210)219-8858	0	Address: 601 N.	Project Manager: Beaux Jennings	Company Name: Ensolum, LLC
				Shimada		ales or successors arising out of or related to the performance of se	egilgence and any other cause whatso ble for incidental or consequental dan	ods. Cardnal's liability and client's explos				SW02	SUDI	F502	1052	42/06/4	Sample I.D.		oru Shimada	32. 273598	and Dunes :	11 3614 11	9-8858	State: TX	601 N. Marienfeld St. STE 400	Beaux Jennings	Ensolum, LLC
0,00	Observed Temp. °C Corrected Temp. °C	Time:		Time:		services hereunder by Cardinal, regardless of whether such claim	sever shall be deemed waived unles rages, including without limitation, b	to semody for any claim arising whether				10-4	10-4	+	H		Sample Depth (feet)			-103.7866	28 Federal	Project Owner:	Email:bje	Zip: 79701			LC ,
O O O O O O O O O O O O O O O O O O O	Sample Condition Cool Intact		Received By:	000	Received By:	ardiess of whether such claim is based up	All claims including those for negligence and any other cause whatsower shall be determed waived unless made in willing and received [Cardinal with 3 days after completion of the age. In no event shall Cardinal the liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by clerk, its suisidates	hand in contract or tool shall be limited to the						7 7	X	(G)RAB (G)RAB (G) # CONTA GROUND WASTEW SOIL OIL	INERS	P. MATRIX		6	two loat		Email:bjennings@ensolum.com				
7	on CHECKED BY: (Initials)		8	P		ise, or loss or profits incurred by chem, its subsidiaries, is based upon any of life above stated reasons or otherwise.	All claims including those for negliginnos and any other cause whatsoever shall be deemed waived unless made in writing and neceived. Cucrides within 36 days after completion of the applicable service, in no event shall Cardinal be listed for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by cleint, its subsidiaries,	secured node for the completion						7	R-12-5	OTHER: ACID/BAS ICE / COO OTHER:		PRESERV. SAN	Email:	Phone #:	) State: Zip:	City:	Address:	Attn: Wade Dittrich	Company: OXY USA	P.O. #:	BILL TO
nometer ID action Factor			REMARKS: Paykey/AFE/NonAFE:	All Results are emailed. Ple bjennings@ensolum.com, Re	Verbal Result:	86.	ble service.					1152	1513	1149	18411 16	TIME		SAMPLING									
45°C	Standard		ykey/AFI	emailed.	□ Yes			H	Н	+	Н	X	X	X	X	BTE	X 80	2	IB								
OVIEW			/NonAF	Please				L	H	+		χ.	8.	×	7	TPI	H 80	15	M								
d emp. c	Bacteria (only) Sample Condition		m	provide Email ad	X No Add'l Phone #:					+		8	*	8	9	Ch	lorid	e 4	45	00	)						ANALYSI
□Yes□ Yes	ndition		- 1-	1	d'I Phone #:					+																	ANALYSIS REQUEST
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 7 of 7



October 11, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/07/24 13:15.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Name: SAND DUNES
Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: CS 01 0.25 (H246080-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8320	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	<10.0	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	69.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.3	% 49.1-14	8						

A ..... I ..... . J D. ... 711

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: CS 02 0.25 (H246080-02)

Project Number:

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3600	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	17.7	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	17.3	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Celey D. Keene



Sampling Condition:

Sample Received By:

10/07/2024

Cool & Intact

Alyssa Parras

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date:

mg/kg

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 03 0.25 (H246080-03)

BTEX 8021B

DRO >C10-C28\*

**EXT DRO > C28 - C36** 

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2260	16.0	10/07/2024	ND	400	100	400	2.02	
	2360	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	236U mg/			ND d By: MS	400	100	400	3.92	
TPH 8015M  Analyte					400 BS	% Recovery	True Value QC	RPD	Qualifier

ND

ND

205

103

200

1.52

10/07/2024

10/07/2024

Analyzed By: JH

Surrogate: 1-Chlorooctane 91.0 % 48.2-134
Surrogate: 1-Chlorooctadecane 92.8 % 49.1-148

62.8

57.0

10.0

10.0

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Celey D. Keine



Sampling Condition:

Sample Received By:

10/07/2024

Cool & Intact

Alyssa Parras

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD

03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sample ID: CS 04 0.25 (H246080-04)

Project Number:

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	1660	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	989	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	'8						

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Celey & Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported:

10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Alyssa Parras

### Sample ID: CS 05 0.25 (H246080-05)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/07/2024	ND	2.05	102	2.00	2.15	
Toluene*	<0.050	0.050	10/07/2024	ND	2.06	103	2.00	2.04	
Ethylbenzene*	<0.050	0.050	10/07/2024	ND	2.12	106	2.00	2.98	
Total Xylenes*	<0.150	0.150	10/07/2024	ND	6.22	104	6.00	3.48	
Total BTEX	<0.300	0.300	10/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	10/07/2024	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	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	251	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	147	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.6	% 49.1-14	8						

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\*=Accredited Analyte

Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported:

10/11/2024

Sampling Date: Sampling Type: 10/07/2024

Project Name:

SAND DUNES FED 28 #1 SWD

Sampling Condition:

Soil Cool & Intact

Project Number:

03B1417197

Sample Received By:

Alyssa Parras

Project Location:

OXY - EDDY COUNTY, NM

### Sample ID: CS 06 0.25 (H246080-06)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	<10.0	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	12.5	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	18						

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Celey D. Keine



Cool & Intact

Alyssa Parras

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

 10/07/2024
 Sampling Date:
 10/07/2024

 10/11/2024
 Sampling Type:
 Soil

Sampling Condition:

Sample Received By:

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

95.5 %

49.1-148

Sample ID: CS 07 0.25 (H246080-07)

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	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1630	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	346	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	157	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						

### Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

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Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported:

10/11/2024

Sampling Date: Sampling Type: 10/07/2024

Project Name:

SAND DUNES FED 28 #1 SWD

Sampling Condition:

Soil Cool & Intact

Project Number:

03B1417197

Sample Received By:

Alyssa Parras

Project Location:

OXY - EDDY COUNTY, NM

### Sample ID: CS 08 0.25 (H246080-08)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1840	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	5170	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	2240	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	84.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	146 9	% 49.1-14	8						

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\*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

### Sample ID: CS 09 0.25 (H246080-09)

Project Name:

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/07/2024	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	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	12.4	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	16.7	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.6	% 49.1-14	8						

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\*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date: 10/07/2024

Reported: Sampling Type: Soil 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Project Number: 03B1417197 Sample Received By: Alyssa Parras

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: CS 10 0.25 (H246080-10)

BTEX 8021B	mg/kg		Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3080	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	47.3	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	34.6	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported:

10/11/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

Sample ID: CS 11 0.25 (H246080-11)

Project Name:

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/07/2024	ND	211	106	200	1.34	
DRO >C10-C28*	1750	10.0	10/07/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	919	10.0	10/07/2024	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celeg D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: CS 12 0.25 (H246080-12)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	< 0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3200	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	211	106	200	1.34	
DRO >C10-C28*	3790	10.0	10/08/2024	ND	205	103	200	1.52	
EXT DRO >C28-C36	1590	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	102 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125 9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: CS 13 0.25 (H246080-13)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/07/2024	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	11.2	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	90.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.0	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: CS 14 0.25 (H246080-14)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6800	16.0	10/08/2024	ND	400	100	400	11.3	QM-07
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 49.1-14	8						

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Celey D. Keene



Sample Received By:

10/07/2024

Alyssa Parras

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact

Project Name: SAND DUNES FED 28 #1 SWD Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: CS 15 0.25 (H246080-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6960	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	153	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	70.6	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.4	% 49.1-14	8						

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Celey & Keens



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

10/11/2024

236 %

49.1-148

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Alyssa Parras

Sample ID: CS 16 0.25 (H246080-16)

BTEX 8021B

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC Benzene* <0.050 0.050 10/08/2024 ND 2.15 108 2.00 Toluene* <0.050 0.050 10/08/2024 ND 2.07 103 2.00 Ethylbenzene* <0.050 0.050 10/08/2024 ND 2.09 105 2.00 Total Xylenes* <0.150 0.150 10/08/2024 ND 6.25 104 6.00 Total BTEX <0.300 0.300 10/08/2024 ND	RPD 0.419 0.0860 0.0121 0.119	Qualifier
Toluene* <0.050 0.050 10/08/2024 ND 2.07 103 2.00  Ethylbenzene* <0.050 0.050 10/08/2024 ND 2.09 105 2.00  Total Xylenes* <0.150 0.150 10/08/2024 ND 6.25 104 6.00  Total BTEX <0.300 0.300 10/08/2024 ND	0.0860 0.0121	
Ethylbenzene* <0.050 0.050 10/08/2024 ND 2.09 105 2.00  Total Xylenes* <0.150 0.150 10/08/2024 ND 6.25 104 6.00  Total BTEX <0.300 0.300 10/08/2024 ND	0.0121	
Total Xylenes* <0.150 0.150 10/08/2024 ND 6.25 104 6.00  Total BTEX <0.300 0.300 10/08/2024 ND		
Total BTEX <0.300 0.300 10/08/2024 ND	0.119	
Surrogata: A Bromofluovohanzana (PID 00.0% 71.5.134		
Surrogute. 4-Dromojiuorovenzene (11D 99.9 /0 /1.J-134		
Chloride, SM4500Cl-B mg/kg Analyzed By: HM		
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	RPD	Qualifier
<b>Chloride 5200</b> 16.0 10/08/2024 ND 400 100 400	11.3	
TPH 8015M mg/kg Analyzed By: MS		S-06
Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC	RPD	Qualifier
GRO C6-C10* <50.0 50.0 10/09/2024 ND 188 94.0 200	0.679	
GRO C6-C10* <50.0 50.0 10/09/2024 ND 188 94.0 200 <b>DRO &gt;C10-C28* 6080</b> 50.0 10/09/2024 ND 175 87.5 200	0.679 3.74	
, , , , , , , , , , , , , , , , , , ,		

Analyzed By: JH

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene

Surrogate: 1-Chlorooctadecane



Sample Received By:

10/07/2024

Alyssa Parras

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date:

Reported: 10/11/2024 Sampling Type: Soil
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: CS 17 0.25 (H246080-17)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	108 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.9	% 49.1-14	8						

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date: 10/07/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Alyssa Parras

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: CS 18 0.25 (H246080-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	< 0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	99.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Sampling Date: 10/07/2024

Reported: 10/11/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Alyssa Parras

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: CS 19 0.25 (H246080-19)

RTFY 8021R

B1EX 8021B	mg/	ky .	Allalyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	<10.0	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	<10.0	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	105 %	26 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 10/07/2024 Reported: 10/11/2024

SAND DUNES FED 28 #1 SWD

Project Name: Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 10/07/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Alyssa Parras

### Sample ID: CS 20 0.25 (H246080-20)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2024	ND	2.15	108	2.00	0.419	
Toluene*	<0.050	0.050	10/08/2024	ND	2.07	103	2.00	0.0860	
Ethylbenzene*	<0.050	0.050	10/08/2024	ND	2.09	105	2.00	0.0121	
Total Xylenes*	<0.150	0.150	10/08/2024	ND	6.25	104	6.00	0.119	
Total BTEX	<0.300	0.300	10/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/08/2024	ND	400	100	400	11.3	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/08/2024	ND	188	94.0	200	0.679	
DRO >C10-C28*	457	10.0	10/08/2024	ND	175	87.5	200	3.74	
EXT DRO >C28-C36	174	10.0	10/08/2024	ND					
Surrogate: 1-Chlorooctane	98.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or S-06 matrix interference's. QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values. QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. 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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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

## CARDINAL Laboratories 101 East Marland, Hobbs, NM 882

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

Company Name:								
	Samantha MacKan		BILL	L 70		ANALYSIS RE	REQUEST	- 1
Address: 601 N. Ma	601 N. Marienfeld St. STF 400	00	P.O. #:					$\dashv$
<u>o</u> .		TY TY	any:	Oxy USA, Inc.	_			
Phone #: 703-357-3545	45	rip.	Address: wade Dimicil					
Project #: () \$ 13/4/	7/97	Project Owner:	City:		_			
Project Name: Synt	Dunes	Feel 28#1 Sh		Zip:				
Project Location:			#	575-390-2828				
Sampler Name:	Kaoru Shimada	a	Fax #:					
FOR LAB USE ONLY			MATRIX PRESERV.	SAMPLING	CI			
					1			
Lab I.D. Sa	Sample I.D.	Sample Depth (feet)  B)RAB OR (C)OM CONTAINERS ROUNDWATER ASTEWATER DIL	LUDGE THER: CID/BASE: E / COOL THER:		TPH 8015M Chloride 450	Hold		
	105	_	5	0-7-24 1012 X	X			+
Ne	00	7	3	7 1101 7	7			
	250			1019				
1	37			1011-8				
	7000			101847				
	H 0 0			1042				
8	80 5			1040				
2	509			10009				
PLEASE NOTE: Liability and Damagos	S CO	0.25 Cr X	X IV	724 1036 X	8			
analyses. All claims including those for n service. In no event shall Cardinal be liab	regligence and any other caus	analyses. All claims including those for negligence and any other cause whatesoever shall be deemed waived unless made in witting and received by Cardinal be limited to the amount paid by the client for the sanction. In no event shall cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client its substitutions of the profits incurred by client its substitutions.	d in contract or tort, shall be limited to the a in writing and received by Cardinal within 3 terruptions, loss of use, or loss of profits in	amount paid by the client for the 10 days after completion of the applic curred by client, its substitutions.	able			1
Relinquished By:	paroce to the behavioring lice of S	Date: Received By:	such claim is based upon any of the above	e stated reasons or otherwise.  Verbal Result:	□ Yes 🛪			1
C SWIMA	8	Time:	}	All Results are emailed. Pleasmackenzie@ensolum.com	mailed. Please	All Results are emailed. Please provide Email address: smackenzie@ensolum.com		
Kelinquished Bÿ:				REMARKS:				
		Time:						
Delivered By: (Circle One)		Ċ,	ition CH	3Y: Turnaround Time:		Ø	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:			il Yes Lives (initials)	Thermometer ID #113	H13-140		Observed Temp. °C	
FORM-000 K 3.2 TUN	17110	not account.		Concentration of the Concentra	00-0000	LI NG LI NO	Corrected Temp. °C	

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

ŀ										
	.C		BILL TO				Α	ANALYSIS RE	REQUEST	
Project Manager: Samantha MacKenzie	lacKenzie	P.O. #:				$ \bot $	$\dashv$			
Address: 601 N. Marienfeld St. STE 400	. STE 400	Company:	: Oxy USA, Inc.							
City: Midland	State: TX Zip: 79701	Attn:	Wade Dittrich					_		_
Phone #: 703-357-3545	Fax #:	Address:								
Project #: 038/4/7/97	Project Owner:	City:								
Project Name: Sime Dunos	or Fed 28 #1 Sh	State:	Zip:							
Project Location:		Phone #:	575-390-2828							
Sampler Name: Kaoru	Kaoru Shimada	Fax #:								
FOR LAB USE ONLY		MATRIX PRESERV	RV. SAMPLING	G		CI				
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER	SOIL OIL SLUDGE OTHER:	DATE	BTEX 8021B	TPH 8015M	Chloride 4500	Hold			
1153	-	*	10-721	× 92.0	×	$\times$	+			
(5)	1 2 2	7	7	0351	7.	7				
10 (5) 5				750	_		-			
				08/			+			
4150				037			-			
-				750						
19 5518			17	920			-			
CS (2)	0.25 41	*	10-77× 10	10 23 X	X	X				
ralyses. All claims including those for negligence and any other ralyses. All claims including those for negligence and any other ervice. In no event shall Cardinal be liable for incidental or cones filiates or successors arising out of or related to the performance.	The process of the control of the process and the process of the p	based in contract or tort, shall be limit ade in writing and received by Cardin ss interruptions, loss of use, or loss of the such claim is based upon any of	ted to the amount paid by the half within 30 days after comp of profits incurred by client, it is the above stated reasons of the above stated	by the client for the completion of the applicable ent, its subsidiaries,	c					L
Kelinquisned By:	Date: Received By:		_	sult:	CO	No No	Adc	No Add'I Phone #:		
Relinquished By:	Date: Received By:		RE	smackenzie@ensolum.	-	com				
	Time:									
Delivered By: (Circle One)		S	CHECKED BY: Turr (Initials)	Turnaround Time:	Z S	Standard Rush		Bacteria (only)	Bacteria (only) Sample Condition	
Sampler - UPS - Bus - Other:	Corrected Temp. °C 3-8	5 W		Thermometer ID #113 #	##	2		Yes Yes	Observed Temp. °C	



November 12, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: SAND DUNES FED 28 #1 SWD

Enclosed are the results of analyses for samples received by the laboratory on 11/06/24 15:35.

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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: FS 03 0.5' (H246776-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	1.67	83.7	2.00	21.5	
Toluene*	<0.050	0.050	11/09/2024	ND	1.75	87.3	2.00	17.0	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	1.89	94.6	2.00	13.4	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	5.69	94.9	6.00	13.4	
Total BTEX	<0.300	0.300	11/09/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	764	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	277	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

A ..... I ..... . J D. ... 711

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Celey D. Keine



### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 04 0.5' (H246776-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	6 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	11/08/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	273	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	104	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	118 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03B1417197 Sample Received By:

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: FS 05 0.5' (H246776-03)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1410	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	62.2	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	21.5	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	123 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132 9	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

ma/ka

### Sample ID: FS 06 0.5' (H246776-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	24.3	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Reported: 11/12/2024

Project Name: SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker

### Sample ID: FS 07 1' (H246776-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	17.9	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03B1417197 Sample Received By:

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: SW 03 0-0.5' (H246776-06)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	125 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133 9	% 49.1-14	8						

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Sample Received By:

11/05/2024

Tamara Oldaker

### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date:

Reported: 11/12/2024 Sampling Type: Soil
Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact

Project Name: SAND DUNES FED 28 #1 SWD
Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: SW 04 0-0.5' (H246776-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact Sample Received By: Project Number: 03B1417197 Tamara Oldaker

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: SW 05 0-0.5' (H246776-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	122	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Reported: 11/12/2024

SAND DUNES FED 28 #1 SWD

Project Number: 03B1417197

Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 11/05/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

### Sample ID: SW 06 0-1' (H246776-09)

Project Name:

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Applyzod By: 14

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: DS 01 0.25' (H246776-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	201	100	200	0.524	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	188	93.8	200	0.0245	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					
Surrogate: 1-Chlorooctane	119	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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### Analytical Results For:

ENSOLUM, LLC SAMANTHA MACKENZIE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 11/06/2024 Sampling Date: 11/05/2024

Reported: 11/12/2024 Sampling Type: Soil

Project Name: SAND DUNES FED 28 #1 SWD Sampling Condition: Cool & Intact
Project Number: 03B1417197 Sample Received By: Tamara Oldaker

Applyzod By: 14

Project Location: OXY - EDDY COUNTY, NM

### Sample ID: DS 02 0.25' (H246776-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	6.50	
Toluene*	<0.050	0.050	11/08/2024	ND	2.21	110	2.00	5.57	
Ethylbenzene*	<0.050	0.050	11/08/2024	ND	2.29	115	2.00	5.71	
Total Xylenes*	<0.150	0.150	11/08/2024	ND	6.78	113	6.00	5.76	
Total BTEX	<0.300	0.300	11/08/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/08/2024	ND	384	96.0	400	4.08	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	217	109	200	4.43	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	187	93.7	200	5.05	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

QR-04 The RPD for the BS/BSD was outside of historical limits.

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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## **CARDINAL** Laboratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

P.O. #:    ONY   VA INC     ATTV   Value   1/44/Un     Address:   City:   State: Zip:   Phone #     Fax #:   Fax #:   Fax #:   Phone #     Fax #:   IMB   ON	Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO		AN	ANALYSIS REQUEST	
Marienfield Street, Suite 400   SN, VSA, DAC   State: TX   Zip: 79701   ATTW: Void® (N+9/4)4   ATTW: Void® (N+9/	Project Manage	Samontry	(lænzve						
Sample I.D.   Geet   Superior   Animal   Anima	Address: 601 N	Marienfeld Street, Su	ite 400		usa,	. '			
Sample I.D.   Control Owner:   City:   State:   Zip:   State:   Zip:	City: Midland		State: TX	Zip: 79701	wade	HARICA			
Sample I.D.    Continued   County   Cou	J	3-357-	Fax #:		Address:				
State:   Zip:		Lb1 LH18	Project Owner		City:				
Sample I.D.   Depth   O   R   Ex   Ex   Ex   Ex   Ex   Ex   Ex	Project Name: 2	I pund Fed	PMS 1#82						
Sample I.D.    Cheet)   Depth   One   Depth	Project Location	Eday (ourse,	NM		#		D		
Sample I.D.    Cheety   Depth   Our   Cheety   Our   Our	Sampler Name:	Noah Duker			Fax #:		50		
Sample I.D.   Cleen   Committee   Committe	FOR LAB USE ONLY		24			12			
Sample I.D.  (Feet)  Received By:  Received			Denth	RS					
# 6 3 6 6 7 2 0 DATE IMME    Columbia   Colu	Lab I.D.	Sample I.D.	(feet)	CONTAINE ROUNDWA ASTEWAT DIL IL LUDGE	CID/BASE: E / COOL THER :		Chle		
Formation   Colored Temp. "C	1,000	803	0,5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	XI	(100 X	×		
Cool	l.	404	0.5	C ( X	X 11/5/24	IIIS X	X		
Color   Consecuted Temps. *C   Color   Market   Cool   Mac	CU	F705	0.5	C	+2/5/N X	X SPI	×		
SWO + Color   X   X   X   X   X   X   X   X   X	4	7506	0.5'	× -	X 11/5/24	X	X		
SWO+  O-0-5- C I X I W/5/24 1265 X X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X I W/5/24 1265 X X  SWO+  O-0-5- C I X X X X X  SWO+  O-0-5- C I X X X X X  SWO+  O-0-5- C I X X X X X X  SWO+  O-0-5- C I X X X X X X  SWO+  O-0-5- C I X X X X X X  SWO+ C I X X X X X  SW	S	- 1	1	<i>C X</i>	X (1/5/12+	(HOO X)	X		
SWOY  Collection	e		0-05	×	√ W2/2/v	(los \$	~		
Stude S	7	+cm2	5.0-0	× ×	X WS/DY	7 (205)	X		
Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the applicable of incidental or consequental damages, including whether such claims to based upon any of the above stated reasons or otherwise.  Time:    Contract of the performance of services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise.	×	50005	5,0-0	X	X 11/5/2	X St	×		
Date:    Cool   Mark	9	3000	0-11	C. 1 X	X 11/5/24	1 Son)	X		
Date:    Cool Infract   No   No   No   No   No   No   No   No	10	1050	0,25	6 / X	X 11/5/24	X SHSO	^ X		
gould of related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons of otherwise.    Carried Date:	PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car	Damages. Cardinal's liability and cli those for negligence and any other dinal be liable for incidental or conse	ent's exclusive remedy for an cause whatsoever shall be do quental damages, including v	r claim arising whether based in contract or termed waived unless made in writing and re without limitation, business interruptions, los	tort, shall be limited to the amount paid eceived by Cardinal within 30 days after so of use, or loss of profits incurred by c	by the client for the completion of the applicable lent, its subsidiaries,			
Time:    Date:   Received By:	Relinquished By			Received/By:	2	Verbal Result:	(0)	I'l Phone #:	
Time:    Coll   Miles   Received By:   Remarks:   Remar	Made	Dunk	Time: 35	Milliaka a	Make	Smackenziale C	5.7	illall audiess.	
Observed Temps. °C All Sample Condition CHECKED BY: Turnaround Time: Standard Machine Cool Infact Corrected Temps. °C All Cool Machine Cool Infact Cool Machine Coo	Relinquished By		Date:	Received By:		REMARKS:			
Corrected Temp. °C A// Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) Standard Cool Infact (Initials)  Corrected Temp. °C Z/S  No No No No CHECKED BY: Turnaround Time: Standard Rush Cool Infact (Initials)  Thermometer ID #113 #/40  Correction Fector -0.3°C - 1/16/24 No No No			Time:						
Corrected Temp. °C 3/S   Ares Tyes   Thermometer ID #113 #/44   Ares   A	Delivered By: (Cir		served Temp. °C	_		Turnaround Time:		y) s	
	Sampler - UPS - E		rrected Temp. °C	2	1000	Thermometer ID #113	c +/40 116/24	0 0	L

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

Observed Temp.

CU

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC		BILL TO	AN	ANALYSIS REQUEST
Project Manager: S& Welltag M	Mackenzie	P.O. #:		
5	lite 400	77 MSN 440		
City: Midland	State: TX Zip: 79701	Attai wade D. Howh	7,	
Phone #: 703-357-3548	Fax #:	Address:		
Project #: 038/4/7/97	Project Owner:	City:		
Project Name: Jand Rung Felt	EMS 1#82 +	State: Zip:		
Project Location: Eddy (ounty	MM	Phone #		
Sampler Name: Noun Juker	No	Fax #:	00	
	MATRIX	PRESERV SAMPLING	_	
FOR THE USE ONL!			21	
Lab I.D. Sample I.D.	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER:	BTEX STOR TPH SOIS (4/audes	
11 1992	_	880 +245/11	XXX	
W 3to	/			
2				
	1			
		/		
		/		
PLEASE NOTE: Liability and Damages. Cardinal's liability and clivanalyses. All claims including those for negligence and any other service. In no event shall Cardinal be liable for incidental or conse	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 causes whatsoerer is table be deemed waked unless made in witing 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 uses, or loss of profise incurred by Cardinal set.	tort, shall be limited to the amount paid by the eceived by Cardinal within 30 days after compless of use. or loss of profits incurred by client, its	client for the stone of the applicable subsidiaries.	
affiliates or successors arising out of or related to the performance	filliates 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 resons or otherwise.	based upon any of the above stated reasons or		
Relinquished By:	Date: Received By:	All R	ılt: □ Yes ☑ No are emailed. Please provi	Add'I Phone #: de Email address:
Relinquished By:	Date: Received By:	Lillian SW	Smalkenzie Ben Dium lom	
	Time:			

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

CHECKED BY: (Initials)

Turnaround Time:

Bacteria (only) Sample Condition Cool Intact Observed Temp. °C

Corrected Temp. °C

2

Page 15 of 15



September 19, 2024

**BEAUX JENNINGS** 

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: LEA LAND CALICHE PIT

Enclosed are the results of analyses for samples received by the laboratory on 09/16/24 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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



### Analytical Results For:

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

Received: 09/16/2024 Sampling Date: 09/13/2024
Reported: 09/19/2024 Sampling Type: Soil

Project Name: LEA LAND CALICHE PIT Sampling Condition: Cool & Intact
Project Number: 03B1417160 Sample Received By: Tamara Oldaker

Project Location: OXY

### Sample ID: LEA LAND CALICHE PIT 0.5' (H245619-01)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/17/2024	ND	2.04	102	2.00	2.40	
Toluene*	<0.050	0.050	09/17/2024	ND	1.91	95.7	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/17/2024	ND	1.93	96.4	2.00	2.47	
Total Xylenes*	<0.150	0.150	09/17/2024	ND	5.72	95.4	6.00	2.68	
Total BTEX	<0.300	0.300	09/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	09/17/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	09/17/2024	ND	204	102	200	0.238	
DRO >C10-C28*	98.6	10.0	09/17/2024	ND	202	101	200	5.70	
EXT DRO >C28-C36	<10.0	10.0	09/17/2024	ND					
Surrogate: 1-Chlorooctane	70.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.3	% 49.1-14	8						

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Celey D. Keine



### **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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## Laboratories

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC City: Midland Sampler Name: Kaoru Shimada Project #: 0381417160 Phone #: (210)219-8858 Delivered By: (Circle One)
Sampler - UPS - Bus - Other Address: 601 N. Marienfeld St. STE 400 Relinquished By: Project Location: Project Manager: Beaux Jennings Relinquished By: Lab I.D. Project Name: Kapry 637 Sample I.D. himada Land State: TX aliche P. Project Owner: Zip: Observed Temp. °C Corrected Temp. °C Caliche Dage 16.24 Time:/400 Sample Depth (feet) 79701 Email:bjennings@ensolum.com (G)RAB OR (C)OMP Received By: # CONTAINERS GROUNDWATER Sample Condi WASTEWATER MATRIX SOIL OIL SLUDGE P.O. #: OTHER State: Phone #: City: Attn: Wade Dittrich Address: Company: OXY USA CHECKED BY: (Initials) ACID/BASE BILL TO OTHER Zip: DATE SAMPLING bennings@ensolum.com, klowery@ensolum.com Verbal Result: ☐ Yes ☒ No Add'i Phone # All Results are emailed. Please provide Email address: REMARKS: Paykey/AFE/NonAFE: 1041 -0.60 Te BTEX 8021B Cool Intact X **TPH 8015M** × Chloride 4500 ANALYSIS REQUEST Hold No No

Page 4 of 4

Sante Fe Main Office Phone: (505) 476-3441 General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS

Action 421827

### **QUESTIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2218940420
Incident Name	NAPP2218940420 SAND DUNES 28 FED 1 SWD @ 30-015-26194
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-26194] SAND DUNES 28 FEDERAL #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAND DUNES 28 FED 1 SWD
Date Release Discovered	07/05/2022
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
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	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure   Flow Line - Injection   Produced Water   Released: 15 BBL   Recovered: 1 BBL   Lost: 14 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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General Information Phone: (505) 629-6116

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

QUESTIONS, Page 2

Action 421827

QUESTIONS (continued)
-----------------------

Q02011	One (continued)	
Operator: OXY USA INC	OGRID: 16696	
P.O. Box 4294	Action Number:	
Houston, TX 772104294	421827	
	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	No	
Reasons why this would be considered a submission for a notification of a major release	Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	e. gas only) are to be submitted on the C-129 form.	
Initial Response		
	of the horaced that would expedit in injury	
The responsible party must undertake the following actions immediately unless they could create a s  The source of the release has been stopped		
The impacted area has been secured to protect human health and the	True	
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.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/16/2025	

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116 Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS, Page 3

Action 421827

### **QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	nd 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)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Between 1 and 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided to	the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination	n associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in mi	illigrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	8320	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	8360	
GRO+DRO (EPA SW-846 Method 8015M)	6080	
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	06/24/2024	
On what date will (or did) the final sampling or liner inspection occur	11/05/2024	
On what date will (or was) the remediation complete(d)	11/05/2024	
What is the estimated surface area (in square feet) that will be reclaimed	9146	
What is the estimated volume (in cubic yards) that will be reclaimed	6	
What is the estimated surface area (in square feet) that will be remediated	9146	
What is the estimated volume (in cubic yards) that will be remediated	6	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		

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

Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory <a href="https://www.emnrd.nm.gov/ocd/contact-us">https://www.emnrd.nm.gov/ocd/contact-us</a>

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

QUESTIONS, Page 4

Action 421827

**QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	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)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
D- 0.1-1-1- D- 140 45 00 44 NIAO	

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.

Name: Wade Dittrich
Title: Environmental Coordinator
Email: wade\_dittrich@oxy.com
Date: 01/16/2025

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.

Released to Imaging: 1/23/2025 1:15:11 PM

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

QUESTIONS, Page 5

Action 421827

**QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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Phone: (505) 629-6116

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

QUESTIONS, Page 6

Action 421827

**QUESTIONS** (continued)

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	397617
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	11/05/2024
What was the (estimated) number of samples that were to be gathered	6
What was the sampling surface area in square feet	9145

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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Phone: (505) 629-6116

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

CONDITIONS

Action 421827

### **CONDITIONS**

Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	421827
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### CONDITIONS

Created By		Condition Date
crystal.walk	Remediation Plan and variance request approved.	1/23/2025