



January 9, 2025

New Mexico Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Remediation Work Plan
Old Ranch Canyon 7 Federal #001
Incident Number: nMLB0432755192
API: 30-015-28011
32.4107857°N, 104.5352631°W
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Oxy USA, Inc. (Oxy), has prepared the following *Remediation Work Plan (Work Plan)* to document the site assessment activities completed to date and propose a work plan to address impacted soil identified at the Old Ranch Canyon 7 Federal #001 (Site). The purpose of the site assessment activities was to delineate the vertical and lateral extent of impacted soil resulting from an historical release of produced water at the Site. The following Work Plan proposes to excavate impacted soil within the top 1 foot to 5 feet below ground surface (bgs) of the historical release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 07, Township 22 South, Range 24 East, in Eddy County, New Mexico (32.4107857°N, 104.5352631°W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 10, 2004, there was a connection failure which resulted in the release of 290 barrels (bbls) of produced water onto and off the pad. Approximately 260 bbls of produced water was recovered via the use of vacuum trucks. Devon Energy Production Co. LP reported the release to the New Mexico Oil Conservation Division (NMOCD) on November 25, 2004 and the release was assigned Incident Number nMLB0432755192.

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 desktop review are presented on NMOCD Portal of the Form C-141, Site Assessment/Characterization submitted on October 4, 2024. Potential site receptors are identified on **Figure 2 in Appendix A**.

Depth to groundwater at the Site is less than 25 feet bgs based on the nearest groundwater well data. In 1998, a US Geological survey (USGS) permitted well (322448104322101) measured groundwater to a depth of 14 feet bgs located approximately 0.3 miles northwest of the Site and is depicted on **Figure 2 in Appendix A**. The Well Record is included in **Appendix B**.

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The closest continuously flowing or significant watercourse to the Site is a intermittent stream located approximately 551 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 underlain by unstable geology (high potential karst designation area).

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): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On October 14, 2024 and November 6, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information provided on the C-141 and visual observations. Ensolum personnel collected 9 delineation soil samples (DS01 and DS09) outside the release extent from a depth of 0.25 feet bgs, 11 pothole soil samples from 5 locations (PH01 through PH05) within the release extent from depths varying from 0.5 foot to 4 feet bgs utilizing a backhoe to assess the vertical extent of the release, and 61 confirmation composite soil samples (CS01 through CS61) within the release extent from a depth of 0.25 feet 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. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on **Figure 1 (Appendix A)**. Photographic documentation was completed during the Site visit and a Photographic Log is included in **Appendix C**.

FIELD SCREENING RESULTS

Results for the delineation soil samples (DS01 through DS09) indicated that VOCs, TPH, and/or chloride concentrations were below the Closure Criteria at depths of 0.25 feet bgs. Results for the pothole delineation soil samples [PH02 (0.5 and 4 feet bgs), PH03 (3 feet bgs), PH04 (0.5 and 4 feet bgs), and PH05 (0.5 feet bgs)] and confirmation soil samples (CS19, CS28, CS35, CS36, CS39, CS44, CS46, CS47, CS48, and CS57 through CS60 [each collected at 0.25 feet bgs]) indicated that TPH and/or chloride concentrations exceeded the Closure Criteria at depths ranging from 0.25 feet bgs to 4 feet bgs. The terminal depth sample collected from delineation pothole PH01 (1 foot bgs) and PH05 (3 feet bgs) indicated concentrations of all COCs were compliant with the Closure Criteria and successfully defined the vertical extent of impacted soil in those areas.

Once excavation activities are completed, official excavation composite floor and sidewall soil samples will be collected every 200 square feet. Samples will be placed in pre-cleaned glass jars labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The samples will be transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of BTEX, following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM-4500 Cl-B.

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PROPOSED REMEDIATION WORK PLAN

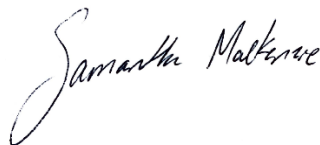
The delineation soil sampling results indicate soils containing elevated TPH and/or chloride concentrations exist across an approximate 20,481 square foot area and extends to a maximum depth of 5 feet bgs. Oxy proposes to complete the following remediation activities:

- Excavation of impacted soil to varying depths of 1 foot to 5 feet bgs based on the pothole delineation field screening soil sample results. Excavation will proceed vertically and laterally until the excavation floor and sidewall samples confirm benzene, total BTEX, TPH, and chloride concentrations are compliant with the applicable Closure Criteria.
- An estimated 1,172 cubic yards of impacted soil will be excavated. The excavated soil will be transferred to a New Mexico approved landfill facility for disposal.
- The excavation will be backfilled and recontoured to match pre-existing conditions

Oxy will proceed with the excavation and soil sampling activities and will submit a Closure Report within 90 days of the date of approval of this Work Plan by the NMOCD.

If you have any questions or comments, please contact Ms. Samantha MacKenzie at (703) 357-3545 or smackenzie@ensolum.com.

Sincerely,
Ensolum, LLC



Samantha MacKenzie
Staff Geologist



Beaux Jennings
Associate Principal

cc: Wade Dittrich, Oxy USA, Inc.
Tyson Pierce, Oxy USA, Inc.
New Mexico Bureau of Land Management

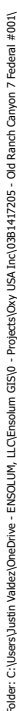
Appendices:

Appendix A Figures
Appendix B Supporting Documentation
Appendix C Photographic Log
Appendix D Table
Appendix E Laboratory Analytical Reports & Chain-of-Custody Documentation



APPENDIX A

Figures

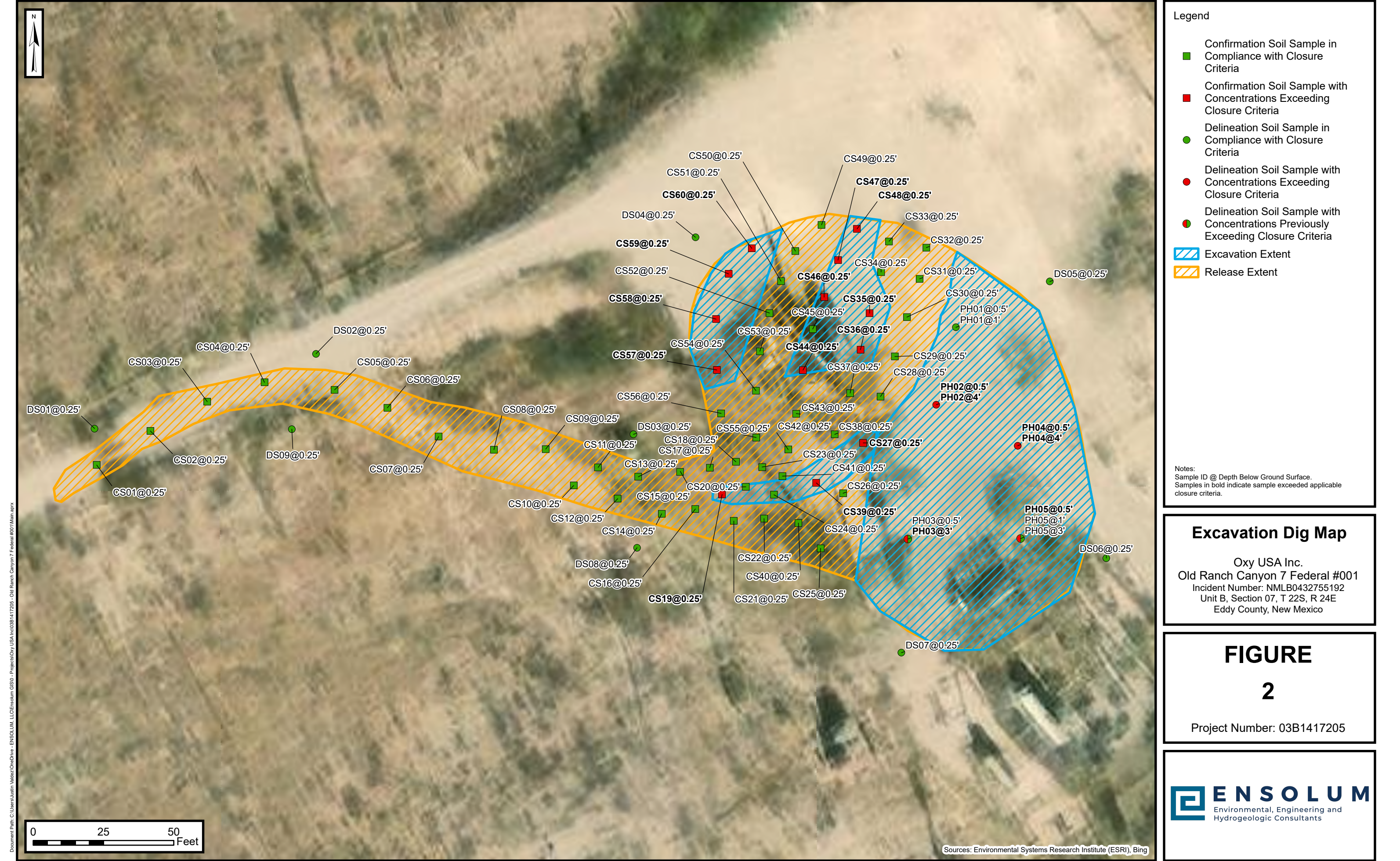


Site Receptor Map

Oxy USA Inc.
Old Ranch Canyon 7 Federal #001
Incident Number: NMLB0432755192
Unit B, Section 07, T 22S, R 24E
Eddy County, New Mexico

FIGURE

1





APPENDIX B

Supporting Documentation

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

ORIGINAL

30-015-28011

Release Notification and Corrective Action

n MLB0432755192

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Devon Energy Production Co. LP	Contact: Jennifer Van Curen
Address: PO Box 250; Artesia, NM 88211	Telephone No.: 505-748-0160
Facility Name: Old Ranch Canyon 7 Fed 1	Facility Type: Battery

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter B	Section 7	Township 22S	Range 24E	Feet from the 660	North/South Line North	Feet from the 1930	East/West Line East	County Eddy
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Water	Volume of Release: 290	Volume Recovered: 260
Source of Release: Victaulic connection on 6" water line	Date and Hour of Occurrence 11/10/04: 4:30 am	Date and Hour of Discovery 11/10/04: 4:30 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher	
By Whom? Joe Huber	Date and Hour: 11/10/04: 7:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

RECEIVED

NOV 17 2004

OCD-ARTESIA

If a Watercourse was Impacted, Describe Fully.*

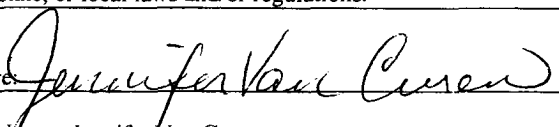
Describe Cause of Problem and Remedial Action Taken.*

Victaulic connection on 6" water line failed. Spilled 250 bbls PW inside dike with 40 bbls leaking thru dike and traveling 300' off location. Shut off flow. Vacuumed up all contained and puddled water.

Describe Area Affected and Cleanup Action Taken.*

Inspection of connection indicated pipe had been subject to movement or vibration wearing away at clamp surfaces. Plan to cement new pipe and coupling in place to prevent movement. Waiting on further clean-up recommendations from the BLM / OCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jennifer Van Curen	Approved by District Supervisor:	
Title: Production Field Tech	Approval Date:	Expiration Date:
E-mail Address: Jennifer.vancuren@dvn.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/15/04 Phone: 748-0160		

* Attach Additional Sheets If Necessary

Eddy County, New Mexico
Latitude 32°24'48", Longitude 104°32'21" NAD27
Land-surface elevation 3,966 feet above NAVD88
The depth of the well is 35 feet below land surface.
This well is completed in the Roswell Basin aquifer system (S400RSWLBS) national aquifer.
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

[Table of data](#)

[Tab-separated data](#)

[Graph of data](#)

[Reselect period](#)

Date	Time	[?] Water-level date-time accuracy	[?] Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	[?] Status	[?] Method of measurement	[?] Measuring agency	[?] Source of measurement	[?] Water-level approval status
1978-01-13		D	62610		3950.59	NGVD29	1	Z			A
1978-01-13		D	62611		3952.36	NAVD88	1	Z			A
1978-01-13		D	72019	13.64			1	Z			A
1983-01-25		D	62610		3950.81	NGVD29	1	Z			A
1983-01-25		D	62611		3952.58	NAVD88	1	Z			A
1983-01-25		D	72019	13.42			1	Z			A
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
1992-11-04		D	72019	13.30			1	S			A
1998-01-30		D	62610		3950.25	NGVD29	1	S			A
1998-01-30		D	62611		3952.02	NAVD88	1	S			A
1998-01-30		D	72019	13.98			1	S			A

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
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.



APPENDIX C

Photographic Log

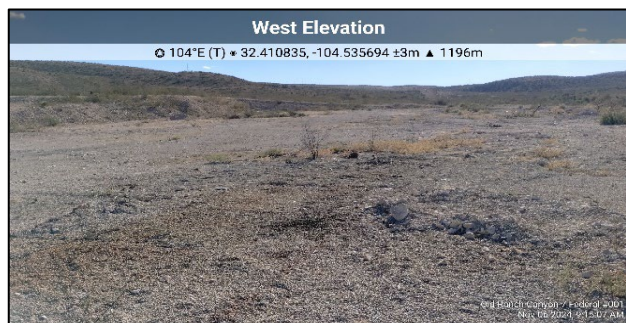


Photographic Log

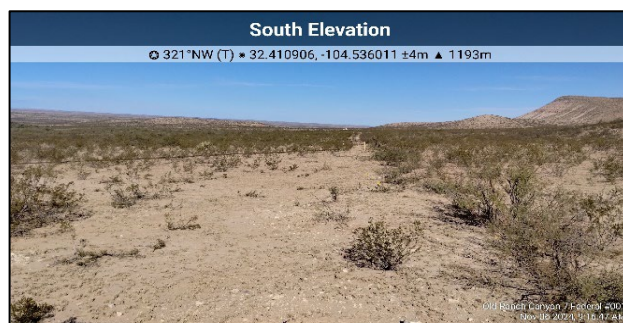
Oxy USA, Inc

Old Ranch Canyon 7 Federal #001

Incident Number NMLB0432755192



Photograph: 1 Date: 11/6/2022
Description: Soil staining in release footprint
View: West



Photograph: 2 Date: 11/6/2024
Description: Soil staining in release footprint
View: South



Photograph: 3 Date: 11/6/2024
Description: Pothole activities
View: West



Photograph: 4 Date: 11/6/2022
Description: Backfilling activities
View: North



APPENDIX D

Table

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
Delineation Soil Sample Analytical Results												
DS01	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS02	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
DS03	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS04	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
DS05	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS06	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
DS07	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
DS08	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
DS09	11/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
Pothole Soil Sample Analytical Results												
PH01	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
	11/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
PH02	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	896
	11/06/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	672
PH03	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
	11/06/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,020
PH04	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	33,200
	11/06/2024	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,920
PH05	11/06/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,570
	11/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	464
	11/06/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
Confirmation Soil Sample Analytical Results												
CS01	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
CS02	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS03	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS04	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS05	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS06	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS07	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS08	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS09	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS10	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS11	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS12	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0


TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
CS13	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS14	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS15	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS16	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS17	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS18	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS19	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	17.5	91.5	109	<16.0
CS20	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	36.8	36.8	<16.0
CS21	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS22	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS23	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS24	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	56.3	40.2	96.5	32.0
CS25	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS26	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	288
CS27	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
CS28	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	416
CS29	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	432
CS30	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	352
CS31	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
CS32	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
CS33	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	368
CS34	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
CS35	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,200
CS36	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	108	351	459	32.0
CS37	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	18.0	18.0	16.0
CS38	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	544
CS39	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	28.9	130	159	784
CS40	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS41	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS42	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS43	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	14.3	14.3	144

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Old Ranch Canyon 7 Federal #001
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417205

Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO C ₆ -C ₁₂ (mg/kg)	TPH DRO >C ₁₂ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₅ (mg/kg)	TPH Total C ₆ -C ₃₅ (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	100	600
CS44	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	160	555	715	16.0
CS45	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	41.0	41.0	16.0
CS46	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	15.9	53.0	68.9	3,600
CS47	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,000
CS48	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	266	230	496	160
CS49	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS50	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS51	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
CS52	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	19.6	31.4	51.0	32.0
CS53	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	44.9	22.0	66.9	48.0
CS54	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
CS55	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	33.9	27.7	61.6	<16.0
CS56	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
CS57	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	78.4	48.2	127	32.0
CS58	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	314	178	492	<16.0
CS59	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	363	179	542	64.0
CS60	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	822	266	1,088	288
CS61	10/14/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0

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

 represents samples that have been excavated

bgs: below ground surface

mg/kg: milligrams per kilogram

NE: Not Established

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbons



APPENDIX E

Laboratory Analytical Reports & Chain-of-Custody Documentation



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

October 21, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OLD CANYON RANCH 7 FEDERAL #001

Enclosed are the results of analyses for samples received by the laboratory on 10/15/24 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 01 0.25' (H246256-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 88.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.6 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 02 0.25' (H246256-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 03 0.25' (H246256-03)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 04 0.25' (H246256-04)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 05 0.25' (H246256-05)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 06 0.25' (H246256-06)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 07 0.25' (H246256-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 08 0.25' (H246256-08)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 09 0.25' (H246256-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 72.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 57.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 10 0.25' (H246256-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 93.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.0 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 11 0.25' (H246256-11)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	192	96.1	200	2.34	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.46	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 77.3 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 12 0.25' (H246256-12)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.5 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 13 0.25' (H246256-13)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 14 0.25' (H246256-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.7 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 15 0.25' (H246256-15)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 16 0.25' (H246256-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 93.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 17 0.25' (H246256-17)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 18 0.25' (H246256-18)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84	
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 19 0.25' (H246256-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	17.5	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	91.5	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 20 0.25' (H246256-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.05	102	2.00	4.84		
Toluene*	<0.050	0.050	10/17/2024	ND	2.13	106	2.00	4.45		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	5.11		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.54	109	6.00	5.94		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	36.8	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 77.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 21 0.25' (H246256-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 97.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 22 0.25' (H246256-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 68.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 23 0.25' (H246256-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 82.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 24 0.25' (H246256-24)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	56.3	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	40.2	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 85.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 25 0.25' (H246256-25)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 86.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 26 0.25' (H246256-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 27 0.25' (H246256-27)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 28 0.25' (H246256-28)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 29 0.25' (H246256-29)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 77.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 30 0.25' (H246256-30)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 31 0.25' (H246256-31)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/17/2024	ND	205	103	200	5.00	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	208	104	200	6.40	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 32 0.25' (H246256-32)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 74.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 33 0.25' (H246256-33)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	10/16/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 34 0.25' (H246256-34)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	10/16/2024	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 84.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 35 0.25' (H246256-35)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1200	16.0	10/16/2024	ND	400	100	400	3.92	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 36 0.25' (H246256-36)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	108	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	351	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 37 0.25' (H246256-37)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	18.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 38 0.25' (H246256-38)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 100 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 39 0.25' (H246256-39)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74	
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	28.9	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	130	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 90.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 40 0.25' (H246256-40)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.20	110	2.00	3.74		
Toluene*	<0.050	0.050	10/17/2024	ND	2.08	104	2.00	6.30		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.09	104	2.00	8.68		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.21	104	6.00	8.92		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 96.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 41 0.25' (H246256-41)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 99.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 42 0.25' (H246256-42)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 72.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 43 0.25' (H246256-43)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	14.3	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.6 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 44 0.25' (H246256-44)

BTX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	160	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	555	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.4 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 45 0.25' (H246256-45)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	41.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 46 0.25' (H246256-46)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	15.9	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	53.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 103 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 47 0.25' (H246256-47)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4000	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 97.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 48 0.25' (H246256-48)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	266	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	230	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 49 0.25' (H246256-49)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 77.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 50 0.25' (H246256-50)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/17/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 77.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 69.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 51 0.25' (H246256-51)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	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	10/17/2024	ND	229	114	200	2.86	
DRO >C10-C28*	<10.0	10.0	10/17/2024	ND	207	104	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	10/17/2024	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 52 0.25' (H246256-52)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2024	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	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	19.6	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	31.4	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 53 0.25' (H246256-53)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/16/2024	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	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	44.9	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	22.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 83.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 73.9 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 54 0.25' (H246256-54)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	10/16/2024	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	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 55 0.25' (H246256-55)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	33.9	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	27.7	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.7 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 56 0.25' (H246256-56)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/16/2024	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.0 % 49.1-148

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Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 57 0.25' (H246256-57)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEX	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	78.4	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	48.2	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 65.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 58 0.25' (H246256-58)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEx	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	314	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	178	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 59 0.25' (H246256-59)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76		
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94		
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2		
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9		
Total BTEx	<0.300	0.300	10/17/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	363	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	179	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 60 0.25' (H246256-60)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.07	103	2.00	3.76	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	8.94	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.29	114	2.00	12.2	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.91	115	6.00	13.9	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	822	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	266	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 93.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 10/15/2024
 Reported: 10/21/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY

Sampling Date: 10/14/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: CS 61 0.25' (H246256-61)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/17/2024	ND	2.11	106	2.00	3.19	
Toluene*	<0.050	0.050	10/17/2024	ND	2.16	108	2.00	3.17	
Ethylbenzene*	<0.050	0.050	10/17/2024	ND	2.18	109	2.00	3.45	
Total Xylenes*	<0.150	0.150	10/17/2024	ND	6.49	108	6.00	3.46	
Total BTEX	<0.300	0.300	10/17/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	10/16/2024	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/16/2024	ND	182	90.8	200	0.143	
DRO >C10-C28*	<10.0	10.0	10/16/2024	ND	190	94.8	200	1.06	
EXT DRO >C28-C36	<10.0	10.0	10/16/2024	ND					

Surrogate: 1-Chlorooctane 92.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

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

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

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST														
Project Manager: Samantha MacKenzie				P.O. #:																		
Address: 601 N. Marienfeld St. STE 400				Company: Oxy USA, Inc.																		
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich																		
Phone #: 703-357-3545 Fax #:				Address:																		
Project #: 03B1417205 Project Owner:				City:																		
Project Name: Old Canyon Ranch 7 Federal #001				State: Zip:																		
Project Location:				Phone #: 575-390-2828																		
Sampler Name: Kaoru Shimada				Fax #:																		
FOR LAB USE ONLY																						
Lab I.D.	Sample I.D.	Sample Depth (feet)	(GRAB OR (C)OMP. # CONTAINERS	MATRIX				PRESERV.	SAMPLING													
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:												
H346256																						
1	CS 01	0.25	C 1			✓					✓		10-14-2024	1307								
2	CS 02													1308								
3	CS 03													1309								
4	CS 04													1310								
5	CS 05													1311								
6	CS 06													1314								
7	CS 07													1314								
8	CS 08													1315								
9	CS 09													1316								
10	CS 10													1316								
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Relinquished By: Kaoru Shimada				Date: 10-15-24 Time: 1345				Received By: [Signature]				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:										
Relinquished By:				Date: Time:				Received By:				All Results are emailed. Please provide Email address: smackenzie@ensolum.com										
Delivered By: (Circle One)				Observed Temp. °C -1.3 Corrected Temp. °C -1.9				Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No				CHECKED BY: (Initials) [Signature]										
Sampler - UPS - Bus - Other:				Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>				Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No				Observed Temp. °C Corrected Temp. °C										
Thermometer ID #113 #140				Correction Factor 0.5°C -0.6°C																		

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC Project Manager: Samantha MacKenzie Address: 601 N. Marienfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 703-357-3545 Fax #: Project #: 03B1417205 Project Owner: Project Name: Old Canyon Ranch 7 Federal #001 Project Location: Sampler Name: Kaoru Shimada				BILL TO P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:		ANALYSIS REQUEST																
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		BTEX 8021B TPH 8015M Chloride 4500Cl Hold												
Lab I.D. H246256	Sample I.D. CS 11 CS 12 CS 13 CS 14 CS 15 CS 16 CS 17 CS 18 CS 19 CS 20	Sample Depth (feet) 0.25	(G)RAB OR (C)OMP. C	# CONTAINERS 1	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE 10-14-2024	TIME 1318 1319 1322 1324 1325 1326 1328 1327 1329 1330	BTEX 8021B ✓	TPH 8015M ✓	Chloride 4500Cl ✓	Hold										

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Relinquished By: Kaoru Shimada	Date: 10-15-24 Time: 1345	Received By: 	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: smackenzie@ensolum.com
Relinquished By:	Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -1.3 Corrected Temp. °C -1.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) J.O.
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>		Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	
Thermometer ID #113 #140 Correction Factor 0.50 -0.60		Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC				BILL TO				ANALYSIS REQUEST											
Project Manager: Samantha MacKenzie				P.O. #:				<div style="display: flex; justify-content: space-around;"> <div>BTEX 8021B</div> <div>TPH 8015M</div> <div>Chloride 4500Cl</div> <div>Hold</div> </div>											
Address: 601 N. Marienfeld St. STE 400				Company: Oxy USA, Inc.															
City: Midland State: TX Zip: 79701				Attn: Wade Dittrich															
Phone #: 703-357-3545 Fax #:				Address:															
Project #: 03B1417205 Project Owner:				City:															
Project Name: Old Canyon Ranch 7 Federal #001				State: Zip:															
Project Location:				Phone #: 575-390-2828															
Sampler Name: Kaoru Shimada				Fax #:															
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.		SAMPLING							
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME				
4246256																			
21	CS 21	0.25	C	1			✓					✓		10-14-2024	1331				
22	CS 22														1332				
23	CS 23														1332				
24	CS 24														1334				
25	CS 25														1342				
26	CS 26														1343				
27	CS 27														1344				
28	CS 28														1345				
29	CS 29														1347				
30	CS 30														1349				

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Relinquished By: Kaoru Shimada	Date: 10-15-24	Received By: [Signature]	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	All Results are emailed. Please provide Email address:	
	Time: 1345		smackenzie@ensolum.com	
Delivered By: (Circle One)	Observed Temp. °C: -1.3	Sample Condition: Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	REMARKS:	
Sampler - UPS - Bus - Other:	Corrected Temp. °C: -1.9	Checked By: (Initials) [Signature]		
		Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Bacteria (only) Sample Condition	
		Thermometer ID #118 #140	Cool Intact Observed Temp. °C	
		Correction Factor -0.5°C -0.6°C	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: Samantha MacKenzie Address: 601 N. Marienfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 703-357-3545 Fax #: Project #: 03B1417205 Project Owner: Project Name: Old Canyon Ranch 7 Federal #001 Project Location: Sampler Name: Kaoru Shimada				BILL TO P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:		ANALYSIS REQUEST																
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		BTEX 8021B TPH 8015M Chloride 4500Cl Hold												
Lab I.D. H246256	Sample I.D. CS 41 CS 42 CS 43 CS 44 CS 45 CS 46 CS 47 CS 48 CS 49 CS 50	Sample Depth (feet) 0.25	(G)RAB OR (C)OMP. C	# CONTAINERS 1	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE 10-14-2024	TIME 1407 1408 1409 1410 1411 1413 1414 1416 1425 1427	BTEX 8021B ✓	TPH 8015M ✓	Chloride 4500Cl ✓	Hold										

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345	Received By: [Signature] Date: Time:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: smackenzie@ensolum.com
Relinquished By:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -1.3 Corrected Temp. °C -1.9	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #113 #140 Correction Factor 0.5°C -0.6°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C	CHECKED BY: (Initials) [Signature]

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: Samantha MacKenzie Address: 601 N. Marienfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 703-357-3545 Fax #: Project #: 03B1417205 Project Owner: Project Name: Old Canyon Ranch 7 Federal #001 Project Location: Sampler Name: Kaoru Shimada				BILL TO P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:		ANALYSIS REQUEST																
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		BTEX 8021B TPH 8015M Chloride 4500CI Hold												
Lab I.D. H246256	Sample I.D. CS 51 CS 52 CS 53 CS 54 CS 55 CS 56 CS 57 CS 58 CS 59 CS 60	Sample Depth (feet) 0.25	(G)RAB OR (C)OMP. C	# CONTAINERS 1	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:	ACID/BASE: ICE / COOL OTHER:	DATE 10-14-2024	TIME 1428 1430 1431 1433 1435 1437 1438 1440 1441 1445	BTEX 8021B ✓	TPH 8015M ✓	Chloride 4500CI ✓	Hold										

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Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345	Received By: [Signature] Date: Time:	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: smackenzie@ensolum.com
Relinquished By: [Signature] Date: Time:	Received By: [Signature] Date: Time:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C -1.3 Corrected Temp. °C -1.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Thermometer ID #440 #140 Correction Factor 0.5°C -0.6°C	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No	Corrected Temp. °C

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC Project Manager: Samantha MacKenzie Address: 601 N. Marienfeld St. STE 400 City: Midland State: TX Zip: 79701 Phone #: 703-357-3545 Fax #: Project #: 03B1417205 Project Owner: Project Name: Old Canyon Ranch 7 Federal #001 Project Location: Sampler Name: Kaoru Shimada				BILL TO P.O. #: Company: Oxy USA, Inc. Attn: Wade Dittrich Address: City: State: Zip: Phone #: 575-390-2828 Fax #:		ANALYSIS REQUEST															
FOR LAB USE ONLY				MATRIX GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		PRESERV. ACID/BASE: ICE / COOL OTHER:		SAMPLING DATE TIME		BTEX 8021B TPH 8015M Chloride 4500CI Hold											
Lab I.D. H246256 61	Sample I.D. CS 61	Sample Depth (feet) 0.25	(G)RAB OR (C)OMP. C	# CONTAINERS 1	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:		ACID/BASE: ICE / COOL OTHER:		DATE 10-14-2024	TIME 1447	BTEX 8021B TPH 8015M Chloride 4500CI Hold										
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.												SK 14 2024									

Relinquished By: Kaoru Shimada Date: 10-15-24 Time: 1345		Received By: [Signature] Date: Time:		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: All Results are emailed. Please provide Email address: smackenzie@ensolum.com	
Relinquished By: [Signature] Date: Time:		Received By: [Signature] Date: Time:		REMARKS:	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C -1.3 Corrected Temp. °C -1.9	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) [Signature]	Turnaround Time: Standard <input checked="" type="checkbox"/> Bacteria (only) <input type="checkbox"/> Thermometer ID #113 #140 Cool Intact <input type="checkbox"/> Correction Factor 0.5°C -0.6°C Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C

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



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

November 12, 2024

SAMANTHA MACKENZIE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: OLD CANYON RANCH 7 FEDERAL #001

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 01 0.25' (H246775-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	ND	2.19	109	2.00	10.6	
Toluene*	<0.050	0.050	11/09/2024	ND	2.17	109	2.00	10.1	
Ethylbenzene*	<0.050	0.050	11/09/2024	ND	2.29	114	2.00	9.85	
Total Xylenes*	<0.150	0.150	11/09/2024	ND	6.89	115	6.00	10.1	
Total BTEX	<0.300	0.300	11/09/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 02 0.25' (H246775-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	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) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/08/2024	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	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 98.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 03 0.25' (H246775-03)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/09/2024	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) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 04 0.25' (H246775-04)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	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) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 05 0.25' (H246775-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	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) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 06 0.25' (H246775-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	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) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 98.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 07 0.25' (H246775-07)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/09/2024	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) 98.5 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 08 0.25' (H246775-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: DS 09 0.25' (H246775-09)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 106 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/07/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/07/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/07/2024	ND					

Surrogate: 1-Chlorooctane 100 % 48.2-134

Surrogate: 1-Chlorooctadecane 110 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01 0.5' (H246775-10)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	11/08/2024	ND	190	95.2	200	1.16	
DRO >C10-C28*	<10.0	10.0	11/08/2024	ND	189	94.7	200	1.37	
EXT DRO >C28-C36	<10.0	10.0	11/08/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 01 1' (H246775-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 96.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02 0.5' (H246775-12)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 104 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	896	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 02 4' (H246775-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	672	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 111 % 48.2-134

Surrogate: 1-Chlorooctadecane 116 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 0.5' (H246775-14)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/08/2024	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 99.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 102 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 03 3' (H246775-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 110 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1020	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 113 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 04 0.5' (H246775-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	33200	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 04 4' (H246775-17)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1920	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 0.5' (H246775-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1570	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 115 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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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: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 1' (H246775-19)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	464	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 118 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 11/06/2024
 Reported: 11/12/2024
 Project Name: OLD CANYON RANCH 7 FEDERAL #001
 Project Number: 03B1417205
 Project Location: OXY - EDDY CO., NM

Sampling Date: 11/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: PH 05 3' (H246775-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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) 98.8 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	432	16.0	11/08/2024	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 99.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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Relinquished By: <i>Mum Huss</i>		Date: <i>11-6-24</i> Time: <i>1535</i>	Received By: <i>Mum Huss</i>	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No All Results are emailed. Please provide Email address: <i>Smackenzup@proton.com</i>
Relinquished By:		Date: Time:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C <i>4.1</i> Corrected Temp. °C <i>3.5</i>	Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) <i>JS</i>	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/> Bacteria (only) Sample Condition Cool Intact Observed Temp. °C <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No Thermometer ID <i>#113-#140</i> Correction Factor <i>-0.5°C</i> <i>to 11/6/24</i> Corrected Temp. °C

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



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

Company Name: Ensolum, LLC				BILL TO										ANALYSIS REQUEST											
Project Manager: <i>Somatha Mackenzie</i>				P.O. #:																					
Address: 601 N Marienfeld Street, Suite 400				<i>OKY, USA, Inc.</i>																					
City: Midland		State: TX		Zip: 79701		<i>Attn: Wade Pittman</i>																			
Phone #: <i>703-357-3945</i>		Fax #:		Address:																					
Project #: <i>078147205</i>		Project Owner:		City:																					
Project Name: <i>Old Road Canyon 7 Federal Pool</i>				State: Zip:																					
Project Location: <i>Eddy County, NM</i>				Phone #																					
Sampler Name: <i>Noah Duker</i>				Fax #:																					
FOR LAB USE ONLY				MATRIX				PRESERV.		SAMPLING															
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:											ICE / COOL	OTHER :	DATE	TIME
<i>H246005</i>																									
<i>11</i>	<i>P401</i>	<i>1'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1530</i>	<i>X</i>									
<i>12</i>	<i>P402</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>0935</i>	<i>X</i>									
<i>13</i>	<i>P402</i>	<i>4'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1156</i>	<i>X</i>									
<i>14</i>	<i>P403</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>0940</i>	<i>X</i>									
<i>15</i>	<i>P403</i>	<i>3'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1205</i>	<i>X</i>									
<i>16</i>	<i>P404</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>0945</i>	<i>X</i>									
<i>17</i>	<i>P404</i>	<i>4'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1245</i>	<i>X</i>									
<i>18</i>	<i>P405</i>	<i>0.5'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>0950</i>	<i>X</i>									
<i>19</i>	<i>P405</i>	<i>1'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1250</i>	<i>X</i>									
<i>20</i>	<i>P405</i>	<i>3'</i>	<i>C</i>	<i>1</i>			<i>X</i>				<i>X</i>			<i>11/6/24</i>	<i>1300</i>	<i>X</i>									
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Relinquished By: <i>Wade Pittman</i>				Date: <i>11-6-24</i>				Received By: <i>Somatha Mackenzie</i>				Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #:													
				Time: <i>1535</i>								All Results are emailed. Please provide Email address:													
												<i>S.mackenzie@ensolum.com</i>													
Relinquished By:				Date:				Received By:				REMARKS:													
				Time:																					
Delivered By: (Circle One)				Observed Temp. °C <i>4.1</i>				Sample Condition				CHECKED BY: (Initials)													
Sampler - UPS - Bus - Other:				Corrected Temp. °C <i>3.5</i>				Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				<i>VS</i>													
												Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>													
												Bacteria (only) Sample Condition													
												Cool Intact Observed Temp. °C													
												<input type="checkbox"/> Yes <input type="checkbox"/> No													
												<input type="checkbox"/> No <input type="checkbox"/> No Corrected Temp. °C													
												Thermometer ID <i>#443</i>													
												Correction Factor <i>-0.3°C</i>													
												<i>11/6/24</i>													

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

QUESTIONS

Action 419088

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nMLB0432755192
Incident Name	NMLB0432755192 OLD RANCH CANYON 7 FEDERAL #001 @ 30-015-28011
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-28011] OLD RANCH CANYON 7 FEDERAL #001

Location of Release Source

Please answer all the questions in this group.

Site Name	OLD RANCH CANYON 7 FEDERAL #001
Date Release Discovered	11/10/2004
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 Coupling Produced Water Released: 290 BBL Recovered: 260 BBL Lost: 30 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 419088

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/09/2025
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QUESTIONS, Page 3

Action 419088

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	U.S. Geological Survey
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
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	Between 1000 (ft.) and ½ (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Zero feet, overlying, or within area
Categorize the risk of this well / site being in a karst geology	High
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	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	33200
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1088
GRO+DRO (EPA SW-846 Method 8015M)	822
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
On what estimated date will the remediation commence	08/29/2024
On what date will (or did) the final sampling or liner inspection occur	11/06/2024
On what date will (or was) the remediation complete(d)	11/06/2024
What is the estimated surface area (in square feet) that will be reclaimed	20481
What is the estimated volume (in cubic yards) that will be reclaimed	1182
What is the estimated surface area (in square feet) that will be remediated	20481
What is the estimated volume (in cubic yards) that will be remediated	1182
<i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>	
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 4

Action 419088

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/09/2025
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 419088

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	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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QUESTIONS, Page 6

Action 419088

QUESTIONS (continued)

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	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	422828
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/31/2025
What was the (estimated) number of samples that were to be gathered	50
What was the sampling surface area in square feet	15367

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	No
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CONDITIONS

Action 419088

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 419088
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvez	Remediation plan is approved as written except with the following conditions; 1. OXY must complete the excavation and removal of impacted soils until confirmation samples collected from the bottom and sidewalls of the excavation report NMOCD Closure Criteria per 19.15.29.12 NMAC has been achieved. 2. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, OXY must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. 3. OXY has 90-days (April 23, 2025) to submit to OCD its appropriate or final remediation closure report.	1/23/2025