



January 31, 2025

New Mexico Oil Conservation Division

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

**Re: Remediation Work Plan
Cedar Canyon 16 ST 008H & Cypress Federal 33-1
Incident Numbers nAPP2210343535 & nAPP2231458632
API: 30-015-41596
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 delineation activities and to present the findings of a background soil investigation to document naturally occurring chloride concentrations at the at the Cedar Canyon 16 ST 008H and Cypress Federal 33-1 (collectively referred to as the Site), following two releases of crude oil and produced water. The following *Work Plan* proposes to excavate soil impacted by chloride and total petroleum hydrocarbons (TPH) as well as proposed background chloride concentrations to be applied for further soil remediation at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit A, Section 16, Township 24 South, Range 29 East, in Eddy County, New Mexico (32.222065°, -103.9819946°) and is associated with oil and gas exploration and production operations on private landed owned by Oxy.

Incident Number nAPP2210343535

On April 6, 2022, a pin hole in the collar of a 4-inch polyline resulted in the release of approximately 30 barrels (bbls) of produced water into the surrounding pasture area. No free-standing fluids were recovered. Oxy reported the release to the NMOCD via email on April 7, 2022 and submitted a Release Notification Form C-141 (Form C-141) on November 3, 2023. The release was assigned Incident Number nAPP2210343535.

Incident Number nAPP2231458632

On November 7, 2022, a hole in a 4-inch ball valve resulted in the release of approximately 150 bbls of produced water and 10 bbls of crude oil onto the well pad and into the surrounding pasture area. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 90 bbls of produced water and 8 bbls of crude oil were recovered. Oxy reported the release to the NMOCD via email on November 10, 2022 and submitted a Form C-141 on November 15, 2022. The release was assigned Incident Number nAPP2231458632.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization are summarized below and detailed in the NMOCD permitting portal Form C-141 Site Characterization section. Potential site receptors are identified on Figure 1.

Oxy USA Inc.
Remediation Work Plan
Cedar Canyon 16 ST 008H & Cypress Federal 33-1

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. On October 10, 2018, BBC International Incorporated (BBC) installed a soil boring (SB-1) located 0.4 miles southeast of the Site to investigate the initial groundwater bearing unit (GWBU). The soil boring was drilled to a total depth of 25 feet bgs where groundwater was encountered. Based on the groundwater sampling results, the chloride concentration was identified at 41,000 milligrams per liter (mg/L). On October 3, 2023, Ensolum and Envirotech Drilling & Environmental Services (Envirotech) installed two background monitoring wells (C-04778 POD 1 and C-04778 POD 2), located between 0.28 miles and 0.29 miles southeast of the Site to gather background data for the initial GWBU. Background monitoring well C-04778 POD 1 was drilled to a total depth of 40 feet bgs. Groundwater was encountered at 18 feet bgs and had a chloride concentration of 5,510 mg/L and a total dissolved solids (TDS) concentration of 18,700 mg/L. Background monitoring well C-04778 POD 2 was also drilled to a total depth of 40 feet bgs. Groundwater was encountered at 23 feet bgs and had a chloride concentration of 6,160 mg/L and a TDS concentration of 16,300 mg/L. All wells used for depth to water determination are depicted on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a canal, located approximately 1,196 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. The Site is within a 100-year floodplain. The Site is not overlying a subsurface mine. The Site is underlain by unstable geology (medium 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
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

Between May 2, 2024 and August 8, 2024, Site activities were conducted to evaluate the release extents based on information provided on the Form C-141s and visual observations. Eleven assessment soil samples (SS01 through SS11) were collected within the release extent at a depth of 0.5 feet bgs to assess surficial soil within the immediate release extents. Additionally, potholes PH01 through PH11 were advanced via hand auger at the respective locations of assessment soil samples SS01 through SS11. The potholes were advanced to a maximum depth of 9 feet bgs due to hand auger refusal. Discrete soil samples were collected from each pothole at depths ranging from 0.25 feet bgs to 9 feet bgs.

Between January 16 and 22, 2025, Ensolum personnel returned to the Site to continue delineation activities. Potholes PH01, PH03, PH05, and PH11 were continued via geoprobe to a maximum depth of 25 feet bgs where groundwater was encountered. Discrete soil samples were collected from each pothole at depths ranging from 2 feet to 25 feet bgs. One groundwater sample was collected from potholes PH03 and PH05 to investigate the initial GWBU below the Site. Additionally, soil samples SS12 through SS25 were collected around the release at a depth of 0.5 feet bgs to confirm the lateral extent of the release.

Oxy USA Inc.
Remediation Work Plan
Cedar Canyon 16 ST 008H & Cypress Federal 33-1

All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. Field screening results and observations were logged on lithologic soil sampling logs, which are included in Appendix B. The soil sample locations are depicted on Figure 2. Photographic documentation was completed during the site visits and a photographic log is included in Appendix C.

The soil and water samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of 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 SM4500 Cl-B. The water samples were transported under strict chain-of-custody procedures to Cardinal in Hobbs, New Mexico, for analysis of chloride following Standard Method SM4500 and TDS following EPA Method 160.1.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation samples SS12 through SS25 indicated all COC concentrations were in compliance with the Closure Criteria and successfully laterally delineated the release at the surface. Laboratory analytical results for potholes SS01/PH01, SS02/PH02, and SS06/PH06 through SS11/PH11 indicated TPH concentrations exceeded the Closure Criteria at depths ranging from the ground surface to 8 feet bgs. Laboratory analytical results for potholes SS03/PH03 and SS05/PH05 indicated TPH concentrations were in compliance with the Site Closure. Laboratory analytical results for all potholes collected within the release extent indicated benzene and BTEX concentrations were in compliance with the Closure Criteria, however, analytical results for chloride in the potholes were variable within the subsurface.

BACKGROUND CONCENTRATIONS AND VARIANCE REQUEST

The purpose of evaluating naturally occurring background concentrations of chloride is to verify final remediation goals are not set at concentrations less than what may be naturally occurring at the Site. The area's hydrology indicates that chloride and TDS concentrations could be leaching into the soil by groundwater or surface water moving through saline deposits, as presented in the variable subsurface soil samples that were collected. Based on the analytical results from the on-Site delineation activities, Oxy is requesting a variance to utilize a Site-Specific Closure Criteria for chloride of 20,000 mg/kg. This variance request is applicable by providing equal or better protection of fresh water, human health and the environment, as required under 19.15.29.14(A) of the NMAC.

Depth Range (feet bgs)	Chloride Range (mg/kg)
0 - 3	<16.0 to 97,600
4 - 9	16.0 to 26,000
10 - 12	256 to 736
13 - 25	320 to 816

Laboratory analytical results for the water samples collected from PH03 and PH05 indicated chloride concentrations of 4,050 mg/L and 8,700 mg/L and TDS concentrations of 12,300 mg/L and 20,000 mg/L. Laboratory analytical results are presented in Table 1 and the complete laboratory reports and chain-of-custody documentation are presented in Appendix D.

Oxy USA Inc.
Remediation Work Plan
Cedar Canyon 16 ST 008H & Cypress Federal 33-1

Water Sample	Chloride (mg/L)	TDS (mg/L)
C-04778 POD 1	5,510	18,700
C-04778 POD 2	6,160	16,300
SB-1	41,000	NA
PH03	8,700	20,000
PH05	4,050	12,300

The Site is located within a 100-year floodplain, due to its proximity to the Pecos River. According to the Pecos River Basin Salinity Assessment, New Mexico and Texas, 2015 (Houston, N.A., 2015), extensive research was conducted from Malaga to Pierce Canyon Crossing and is a known source of salinity to the basin with a range of water-quality samples from 1959 through 2003. The largest source of saline water discharging into the Pecos River in this area comes from a brine aquifer near Malaga Bend. The Site is located directly east of the Malaga Bend of the Pecos River within the 100-year floodplain, indicating elevated chloride concentrations at the Site were potentially caused by historical floodings, irrigation practices, or surface water runoff.

Groundwater with a TDS concentration less than 10,000 mg/L must be protected from contamination (20.6.2.4101 NMAC). Utilizing the chloride and TDS concentrations obtained from the two background monitoring wells (C-04778 POD 1 and C-04778 POD 2) located 0.28 miles and 0.29 miles southeast of the Site, the soil boring (SB-1) used to investigate the initial GWBU 0.4 miles southeast of the Site, as well as the two ground water samples collected from PH03 and PH05, groundwater at the Site is in excess of 10,000 mg/L for TDS and 250 mg/L for chloride. Based on the background groundwater samples collected from undisturbed and unimpacted areas within 0.5 miles from the Site, the groundwater is not suitable for human consumption or agricultural irrigation.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate TPH and/or chloride impacted soil exists across an approximate 34,000 square foot area and extends to a maximum depth of 10 feet bgs. Oxy proposes completing the following remediation activities:

- Excavation of TPH and/or chloride impacted soil to a depth of 10 feet bgs. Excavation will proceed laterally until sidewall samples confirm COC concentrations are compliant with the Closure Criteria or to the maximum extent practicable (MEP) due to active production equipment and utilities.
- Soil samples will be field screened for VOCs and chloride. Following removal of impacted soil, Ensolum personnel will collect 5-point confirmation soil samples representing every 400 square feet of the excavation floor and every 200 square feet of the sidewalls. Soil samples will be handled as described above and submitted for laboratory analysis of BTEX, TPH, and chloride.
- An estimated 7,000 cubic yards of TPH and/or chloride 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 with non-waste containing soil and recontoured to match pre-existing conditions and re-seeded with the recommended seed mixture.

Oxy believes these remedial actions will prevent further degradation of groundwater and prevent the spread of contaminants into nearby water resources. Oxy requests a variance to complete the excavation and soil sampling activities within 180 days of the date of approval of this *Work Plan* by the

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Remediation Work Plan
Cedar Canyon 16 ST 008H & Cypress Federal 33-1

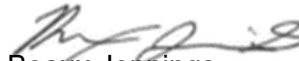
NMOCD, due to multiple surface and subsurface utilities within the release area that will require additional safety precautions.

If you have any questions or comments, please contact Mr. Beaux Jennings at (210) 219-8858 or bjennings@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Beaux Jennings
Associate Principal

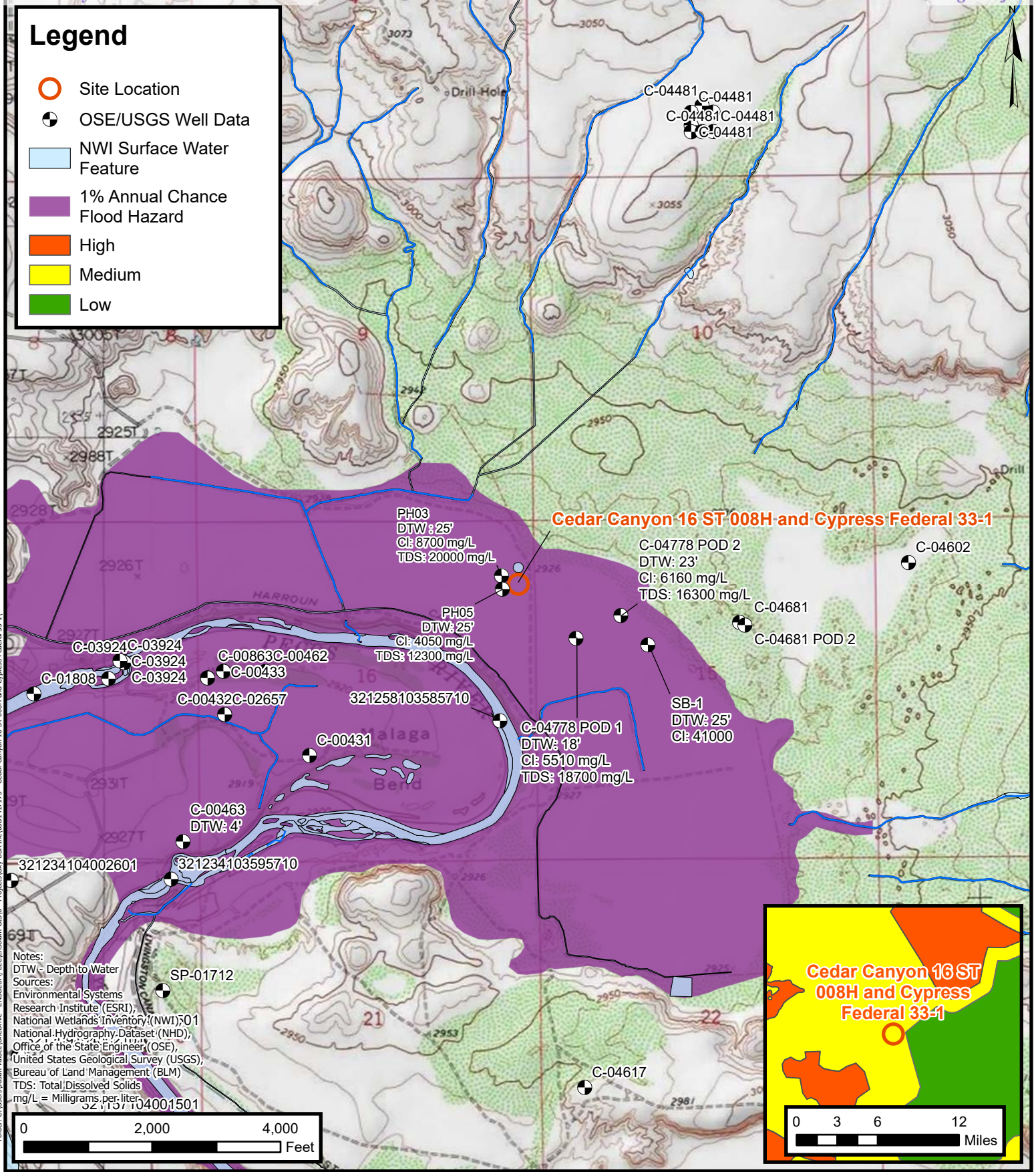
cc: Wade Dittrich, Oxy

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Table 2	Groundwater Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	References Cited



FIGURES

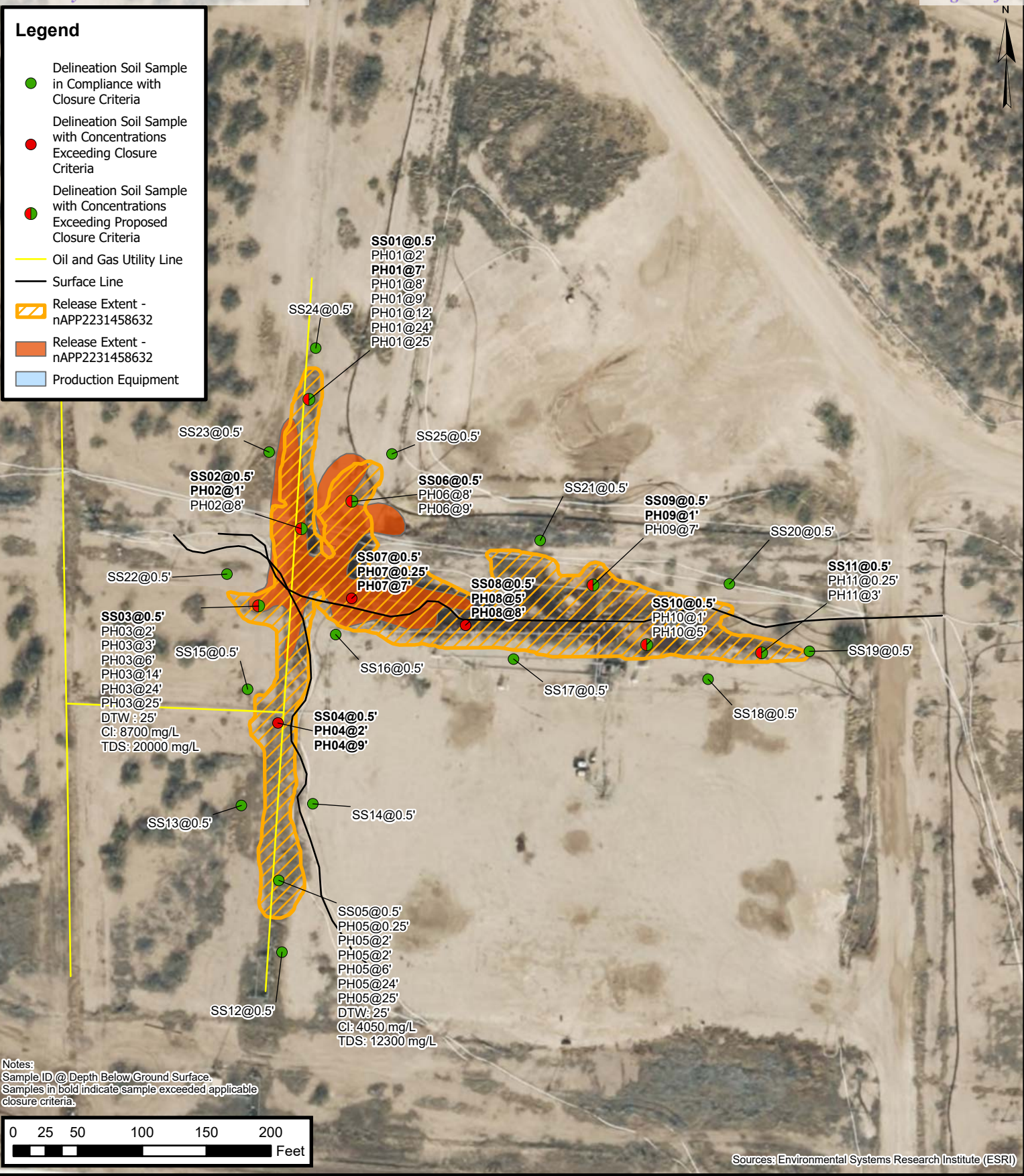


Site Receptor Map
 Oxy USA Inc.
 Cedar Canyon 16 ST 008H and Cypress Federal 33-1
 Incident Number: nAPP2210343535 and nAPP2231458632
 Unit A, Section 16, T 24S, R 29E
 Eddy County, New Mexico

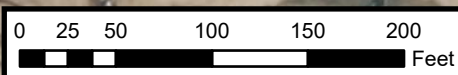
FIGURE
1

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Closure Criteria
- Delineation Soil Sample with Concentrations Exceeding Proposed Closure Criteria
- Oil and Gas Utility Line
- Surface Line
- Release Extent - nAPP2231458632
- Release Extent - nAPP2231458632
- Production Equipment



Notes:
 Sample ID @ Depth Below Ground Surface.
 Samples in bold indicate sample exceeded applicable closure criteria.



Sources: Environmental Systems Research Institute (ESRI)

Delineation Soil Sample Locations

Oxy USA Inc.
 Cedar Canyon 16 ST 008H and Cypress Federal 33-1
 Incident Number: nAPP2210343535 and nAPP2231458632
 Unit A, Section 16, T 24S, R 29E
 Eddy County, New Mexico

FIGURE
2



TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Cedar Canyon 16 ST 008H and Cypress Federal 33-1
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417173

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 ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₆ (mg/kg)	TPH Total (GRO+DRO+MRO) C ₆ -C ₃₆ (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												
SS01 PH01	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	340	158	498	19,600
	08/06/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	208
	08/06/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	928
	08/06/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	496
	01/16/2025	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,120
	01/16/2025	12	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	736
	01/16/2025	24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	592
01/16/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	624	
SS02 PH02	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	14,800	5,340	20,140	24,800
	08/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	378	213	591	9,760
	08/06/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.6	16.1	29.7	10,500
SS03 PH03	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	52,000
	08/06/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	9,200
	08/06/2024	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	18,800
	01/16/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
	01/16/2025	14	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	560
	01/16/2025	24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	320
	01/16/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	816
SS04 PH04	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	97,600
	08/07/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	28,400
	08/07/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	26,000
SS05 PH05	05/02/2024	0.5	0.080	0.212	<0.050	<0.150	0.408	<10.0	<10.0	<10.0	<10.0	272
	08/06/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	448
	08/06/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	336
	01/17/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	01/17/2025	6	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	1,090
	01/17/2025	24	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	784
	01/17/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	704



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Cedar Canyon 16 ST 008H and Cypress Federal 33-1
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417173

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 ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₆ (mg/kg)	TPH Total (GRO+DRO+MRO) C ₆ -C ₃₆ (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
SS06 PH06	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	88.1	304	736
	08/06/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,720
	08/06/2024	9	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	6,640
SS07 PH07	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	19,400	7,220	26,620	24,800
	08/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,210	944	3,154	4,400
	08/07/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	737	332	1,069	22,800
SS08 PH08	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	20,800	8,180	28,980	3,080
	08/07/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	375	225	600	18,000
	08/07/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	18.7	12.9	31.6	24,800
SS09 PH09	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<50.0	21,100	8,400	29,500	2,840
	08/08/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	22,000
	08/08/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	7,200
SS10 PH10	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	374	162	536	17,200
	08/08/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,720
	08/08/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	16.0
SS11 PH11	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	346	136	482	16,200
	08/08/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
	08/08/2024	3	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,880
	01/15/2025	10	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	256
	01/16/2025	22	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	704
01/16/2025	25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	800	
SS12	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	48.0
SS13	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SS14	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SS15	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
SS16	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS17	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
SS18	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0



TABLE 1
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 Cedar Canyon 16 ST 008H and Cypress Federal 33-1
 Oxy USA Inc.
 Eddy County, New Mexico
 Ensolum Project No. 03B1417173

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 ₁₀ (mg/kg)	TPH DRO >C ₁₀ -C ₂₈ (mg/kg)	TPH MRO >C ₂₈ -C ₃₆ (mg/kg)	TPH Total (GRO+DRO+MRO) C ₆ -C ₃₆ (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
SS19	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	128
SS20	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	112
SS21	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
SS22	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
SS23	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
SS24	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	224
SS25	01/22/2025	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0

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

- bgs: below ground surface
- mg/kg: milligrams per kilogram
- NE: Not Established
- mg/kg: milligrams per kilogram
- BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
- GRO: Gasoline Range Organics
- DRO: Diesel Range Organics
- MRO: Motor Oil/Lube Oil Range Organics
- TPH: Total Petroleum Hydrocarbon



**TABLE 2
GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Cedar Canyon 16 ST 008H and Cypress Federal 33-1
Oxy USA, Inc.
Eddy County, New Mexico
Ensolum Project No. 03B1417173

Sample Designation	Date	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	Total BTEX (mg/L)	TPH GRO (mg/L)	TPH DRO (mg/L)	TPH MRO (mg/L)	Total TPH (GRO+DRO+MRO) (mg/L)	Chloride (mg/L)	TDS (mg/L)
New Mexico Water Quality Control Commission Groundwater Quality Standards		0.005	1	0.7	0.62		NE	NE	NE	NE	250.0	10,000
Grab Water Sample Analytical Results												
PH03	01/16/2025			NS					NS		8,700	20,000
PH05	01/17/2025			NS					NS		4,050	12,300

Concentrations in **bold** and **yellow** exceed the applicable New Mexico Water Quality Control Commission Groundwater Quality Standards

mg/L: milligrams per Liter

NE: Not Established

NS: Not Sampled

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

TDS: Total Dissolve Solids



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) SB-1		WELL TAG ID NO.		OSE FILE NO(S).		
	WELL OWNER NAME(S) OXY Permian				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS 1017 W. Stanolind Rd.				CITY Hobbs	STATE NM	ZIP 88240
	WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
		LATITUDE	32	13			
	LONGITUDE	103	58	31.76	W		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Harroun 15 #008							

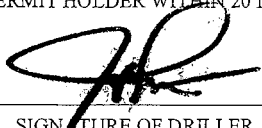
2. DRILLING & CASING INFORMATION	LICENSE NO. WD-1456	NAME OF LICENSED DRILLER John W. White			NAME OF WELL DRILLING COMPANY White Drilling Company, Inc.			
	DRILLING STARTED 10/10/2018	DRILLING ENDED 10/10/2018	DEPTH OF COMPLETED WELL (FT.)	BORE HOLE DEPTH (FT) 6.0	DEPTH WATER FIRST ENCOUNTERED (FT) Dry			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD				ADDITIVES - SPECIFY:			
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						

3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
	FROM	TO				
	0	25.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	4.90	Pump Mix w/Tremmie

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/30/17)		
FILE NO.	POD NO.		TRN NO.		
LOCATION			WELL TAG ID NO.		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
	0.0	5.0	5.0	Dark brown clay/clayey sand	Y ✓ N	
	5.0	25.0	20.0	Brown/reddish brown clayey sand	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
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					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: William B. Atkins		

6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 _____ SIGNATURE OF DRILLER / PRINT SIGNEE NAME	10/22/2018 _____ DATE

FOR OSE INTERNAL USE			WR-20 WELL RECORD & LOG (Version 06/30/2017)		
FILE NO.	POD NO.	TRN NO.			
LOCATION	WELL TAG ID NO.			PAGE 2 OF 2	



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

October 18, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: HARROUN 15 #008

Enclosed are the results of analyses for samples received by the laboratory on 10/16/18 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	10/16/2018	Sampling Date:	10/10/2018
Reported:	10/18/2018	Sampling Type:	Water
Project Name:	HARROUN 15 #008	Sampling Condition:	Cool & Intact
Project Number:	(8/29/18)	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: WATER 1 (H802967-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	41000	4.00	10/17/2018	ND	104	104	100	0.00	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Client: Oxy USA, Inc.
 Project Name: Harroun 15 #008
 Project Location: Eddy County, New Mexico
 Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 10/03/2023
 Date Completed: 10/03/2023
 Drilling Company: Envirotech Drilling & Environmental Services
 Driller: Pete Perez

Soil Boring / Well Number: C-04778 POD 1 (BMW-1)
 Project #: 03B1417046
 Drawn By: Beaux Jennings
 Approved By: Kelly Lowery

Geologist: Shane Diller Sampler: Shane Diller
 Boring Method: Auger Logged By: Shane Diller
 Sampler Type: Auger
 Bore Hole Diameter: 6" Screen: 15' - 40'
 Casing Diameter: 2" Total Depth: 40'
 Well Materials: PVC
 Surface Completion: Above Ground Vault

BORING METHOD **SAMPLER TYPE** **GROUNDWATER DEPTH**
 HSA - HOLLOW STEM AUGERS CB - FIVE FOOT CORE BARREL ∇ AT COMPLETION
 CFA - CONTINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON ∇ AT WELL STABILIZATION
 GP - GEOPROBE ST - PRESSED SHELBY TUBE
 AR - AIR ROTARY

BORING AND SAMPLING NOTES

Soil Description	Soil Classification	Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	Notes
Above Ground Vault									
Bentonite	5' - Silty sand, fine-grained, brown, dry, no odor		5						
	10' - Silty sandy clay, brown, slightly moist, no odor.		10						
	12.5' - Silty clay, dark brown, slightly moist, no odor.		12.5						
Sand	18' - Silty clay, brown, wet, no odor.		18						
	20' - Silty sandy clay, light brown, very wet, no odor.		20						
			25						
Sand	30' - Sandy silty clay, light brown, very wet, no odor.		30						
			35						

NA - Not Available



Client: Oxy USA, Inc.
 Project Name: Harroun 15 #008
 Project Location: Eddy County, New Mexico
 Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 10/03/2023
 Date Completed: 10/03/2023
 Drilling Company: Envirotech Drilling & Environmental Services
 Driller: Pete Perez
 Geologist: Shane Diller
 Boring Method: Auger
 Sampler Type: Auger
 Bore Hole Diameter: 6"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion: Above Ground Vault

Soil Boring / Well Number: C-04778 POD 1 (BMW-1)
 \Project #: 03B1417046
 Drawn By: Beaux Jennings
 Approved By: Kelly Lowery

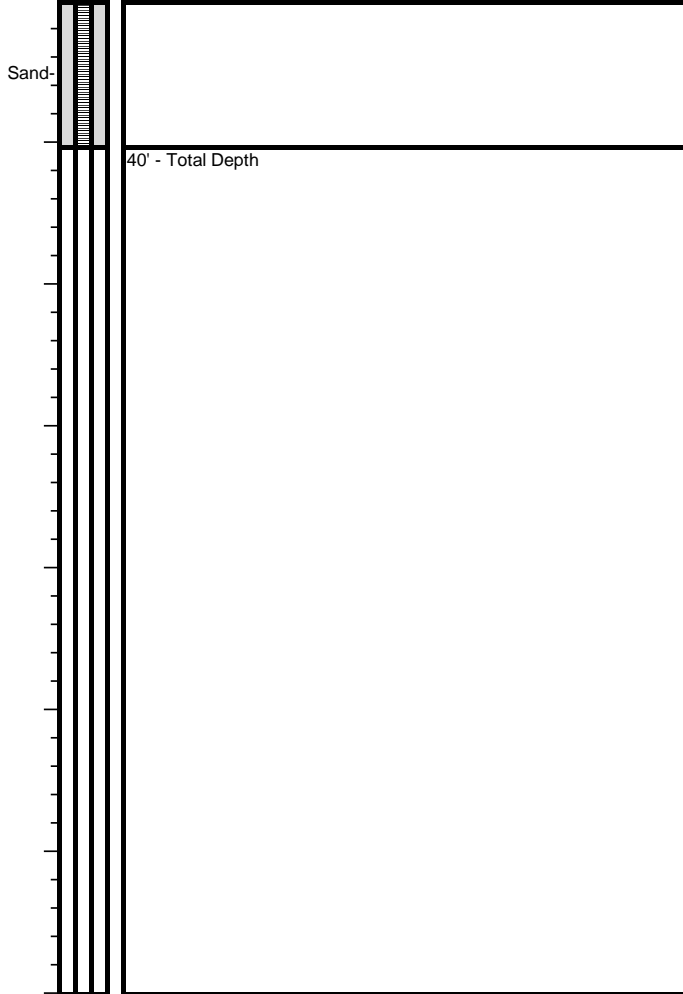
BORING METHOD
 HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 GP - GEOPROBE
 AR - AIR ROTARY

SAMPLER TYPE
 CB - FIVE FOOT CORE BARREL
 SS - DRIVEN SPLIT SPOON
 ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
 ∇ AT COMPLETION
 ∇ AT WELL STABILIZATION

BORING AND SAMPLING NOTES						
Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)

SOIL CLASSIFICATION	
Well Detail	



Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)
	35					
	40					

NA - Not Available



Client: Oxy USA, Inc.
 Project Name: Harroun 15 #008
 Project Location: Eddy County, New Mexico
 Project Manager: Beaux Jennings

SOIL BORING / WELL LOG

DRILLING & SAMPLING INFORMATION

Date Started: 10/03/2023
 Date Completed: 10/03/2023
 Drilling Company: Envirotech Drilling & Environmental Services
 Driller: Pete Perez
 Geologist: Shane Diller
 Boring Method: Auger
 Sampler Type: Auger
 Bore Hole Diameter: 6"
 Casing Diameter: 2"
 Well Materials: PVC
 Surface Completion: Above Ground Vault

Soil Boring / Well Number: C-04778 POD 2 (BMW-2)
 Project #: 03B1417046
 Drawn By: Beaux Jennings
 Approved By: Kelly Lowery

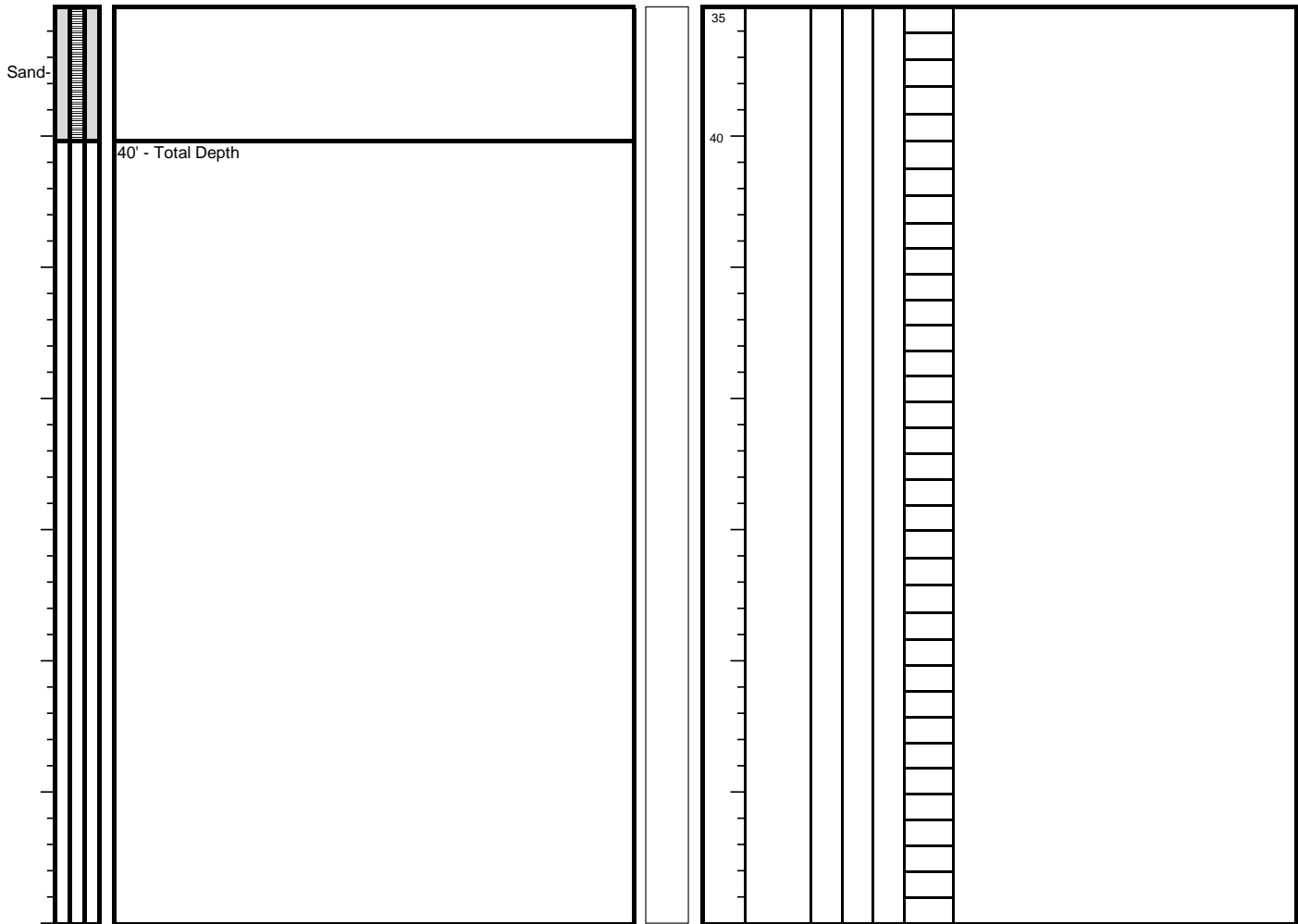
BORING METHOD
 HSA - HOLLOW STEM AUGERS
 CFA - CONTINUOUS FLIGHT AUGERS
 GP - GEOPROBE
 AR - AIR ROTARY

SAMPLER TYPE
 CB - FIVE FOOT CORE BARREL
 SS - DRIVEN SPLIT SPOON
 ST - PRESSED SHELBY TUBE

GROUNDWATER DEPTH
 ∇ AT COMPLETION
 ∇∇ AT WELL STABILIZATION

BORING AND SAMPLING NOTES						
Stratum Depth	Depth Scale	Sample No.	Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)

SOIL CLASSIFICATION	
Well Detail	



NA - Not Available





Environment Testing

- 1
- 2
- 3
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ANALYTICAL REPORT

PREPARED FOR

Attn: Beaux Jennings
 Ensolum
 601 N. Marienfeld St.
 Suite 400
 Midland, Texas 79701

Generated 11/27/2023 1:55:40 PM Revision 1

JOB DESCRIPTION

HARROUN #15
 Eddy County NM

JOB NUMBER

890-5593-1

Eurofins Carlsbad
 1089 N Canal St.
 Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Authorization



Generated
11/27/2023 1:55:40 PM
Revision 1

Authorized for release by
Jessica Kramer, Project Manager
Jessica.Kramer@et.eurofinsus.com
(432)704-5440

Client: Ensolum
Project/Site: HARROUN #15

Laboratory Job ID: 890-5593-1
SDG: Eddy County NM

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13

Table of Contents

Cover Page	1
Table of Contents	3
Definitions/Glossary	4
Case Narrative	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	9
Lab Chronicle	10
Certification Summary	11
Method Summary	12
Sample Summary	13
Chain of Custody	14
Receipt Checklists	15

Definitions/Glossary

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

General Chemistry

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
⌘	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Job ID: 890-5593-1

Laboratory: Eurofins Carlsbad

Narrative

**Job Narrative
890-5593-1**

REVISION

The report being provided is a revision of the original report sent on 11/17/2023. The report (revision 1) is being revised due to Per client email, requesting sample ID correction and add updated COC.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method. Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 11/8/2023 3:10 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.6°C

HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.



Client Sample Results

Client: Ensolum
 Project/Site: HARROUN #15

Job ID: 890-5593-1
 SDG: Eddy County NM

Client Sample ID: BMW-1
 Date Collected: 11/08/23 12:10
 Date Received: 11/08/23 15:10

Lab Sample ID: 890-5593-1
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5510		50.0	34.6	mg/L			11/14/23 16:24	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	18700		100	100	mg/L			11/15/23 20:18	1

Client Sample ID: BMW-2
 Date Collected: 11/08/23 12:50
 Date Received: 11/08/23 15:10

Lab Sample ID: 890-5593-2
 Matrix: Water

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6160		50.0	34.6	mg/L			11/14/23 16:35	100

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540C)	16300		100	100	mg/L			11/15/23 20:18	1

QC Sample Results

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-66985/3
Matrix: Water
Analysis Batch: 66985

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<0.346	U	0.500	0.346	mg/L			11/14/23 15:21	1

Lab Sample ID: LCS 880-66985/4
Matrix: Water
Analysis Batch: 66985

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	25.0	24.86		mg/L		99	90 - 110

Lab Sample ID: LCSD 880-66985/5
Matrix: Water
Analysis Batch: 66985

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	25.0	24.88		mg/L		100	90 - 110	0	20

Lab Sample ID: 880-35729-A-1 MS
Matrix: Water
Analysis Batch: 66985

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	249		250	494.3		mg/L		98	90 - 110

Lab Sample ID: 880-35729-A-1 MSD
Matrix: Water
Analysis Batch: 66985

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	249		250	493.7		mg/L		98	90 - 110	0	20

Method: SM 2540C - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 860-131138/1
Matrix: Water
Analysis Batch: 131138

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<5.00	U	5.00	5.00	mg/L			11/15/23 09:58	1

Lab Sample ID: LCS 860-131138/2
Matrix: Water
Analysis Batch: 131138

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	1000	1001		mg/L		100	80 - 120

Eurofins Carlsbad

QC Sample Results

Client: Ensolum
 Project/Site: HARROUN #15

Job ID: 890-5593-1
 SDG: Eddy County NM

Method: SM 2540C - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: LCSD 860-131138/3
 Matrix: Water
 Analysis Batch: 131138

Client Sample ID: Lab Control Sample Dup
 Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Dissolved Solids	1000	1004		mg/L		100	80 - 120	0	10

Lab Sample ID: 830-4467-C-2 DU
 Matrix: Water
 Analysis Batch: 131138

Client Sample ID: Duplicate
 Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	1700		1704		mg/L		0.2	10

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QC Association Summary

Client: Ensolum
 Project/Site: HARROUN #15

Job ID: 890-5593-1
 SDG: Eddy County NM

HPLC/IC

Analysis Batch: 66985

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5593-1	BMW-1	Total/NA	Water	300.0	
890-5593-2	BMW-2	Total/NA	Water	300.0	
MB 880-66985/3	Method Blank	Total/NA	Water	300.0	
LCS 880-66985/4	Lab Control Sample	Total/NA	Water	300.0	
LCSD 880-66985/5	Lab Control Sample Dup	Total/NA	Water	300.0	
880-35729-A-1 MS	Matrix Spike	Total/NA	Water	300.0	
880-35729-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	300.0	

General Chemistry

Analysis Batch: 131138

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-5593-1	BMW-1	Total/NA	Water	SM 2540C	
890-5593-2	BMW-2	Total/NA	Water	SM 2540C	
MB 860-131138/1	Method Blank	Total/NA	Water	SM 2540C	
LCS 860-131138/2	Lab Control Sample	Total/NA	Water	SM 2540C	
LCSD 860-131138/3	Lab Control Sample Dup	Total/NA	Water	SM 2540C	
830-4467-C-2 DU	Duplicate	Total/NA	Water	SM 2540C	

Lab Chronicle

Client: Ensolum
 Project/Site: HARROUN #15

Job ID: 890-5593-1
 SDG: Eddy County NM

Client Sample ID: BMW-1
Date Collected: 11/08/23 12:10
Date Received: 11/08/23 15:10

Lab Sample ID: 890-5593-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL	10 mL	66985	11/14/23 16:24	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	131138	11/15/23 20:18	SA	EET HOU

Client Sample ID: BMW-2
Date Collected: 11/08/23 12:50
Date Received: 11/08/23 15:10

Lab Sample ID: 890-5593-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL	10 mL	66985	11/14/23 16:35	CH	EET MID
Total/NA	Analysis	SM 2540C		1	10 mL	200 mL	131138	11/15/23 20:18	SA	EET HOU

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
 EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-03-24
Florida	NELAP	E871002	06-30-24
Louisiana (All)	NELAP	03054	06-30-24
Oklahoma	NELAP	1306	08-31-24
Oklahoma	State	2023-139	08-31-24
Texas	NELAP	T104704215-23-53	06-30-24
Texas	TCEQ Water Supply	T104704215	12-28-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Laboratory: Eurofins Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-23-26	06-30-24

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Method Summary

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	EPA	EET MID
SM 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU

Protocol References:

EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater"

Laboratory References:

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200
EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440



Sample Summary

Client: Ensolum
Project/Site: HARROUN #15

Job ID: 890-5593-1
SDG: Eddy County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
890-5593-1	BMW-1	Water	11/08/23 12:10	11/08/23 15:10
890-5593-2	BMW-2	Water	11/08/23 12:50	11/08/23 15:10

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Environment Testing

5545

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
Arlington, TX (817) 392-7550, Fort Worth, TX (817) 796-1500
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No.

www.xenco.com Page 1 of 1

Project Manager: Beau Teanings

Company Name: Engelken LLC

Address: 601 Macaulay #400

City/State/Zip: MIDLAND TX 79701

Phone: 432-230-3344

Project Name: Herrera #15

Project Number: 03R141704L

Project Location: Eddy Co. NM

Sampler's Name: Steve G. Herz

P.O. #: 03R1417064

Turn Around: Routine Rush

Due Date: _____

TAT starts the day received by the lab, if received by 4:30pm

Bill to: (if different) _____

Company Name: _____

Address: _____

City/State/Zip: _____

email: steve@engal.com

Work Order Comments

Program: UST/PST PPP Brownfields RRC Superfund

State of Project: _____

Reporting: Level II Level III PST/UST TRRP Level IV

Deliverables: EDD ADAPT Other _____

Sample Identification	Matrix	Date sampled	Time sampled	Depth	Grab	# of Cont.	# of	Parameters	Preservative Codes
<u>SMW-1</u>	<u>SW</u>	<u>11-8-23</u>	<u>12:10</u>	<u>-</u>	<u>6</u>	<u>2</u>	<u>X</u>	<u>TMP</u>	<u>DI Water H₂O</u>
<u>SMW-2</u>	<u>SW</u>	<u>11-8-23</u>	<u>12:50</u>	<u>-</u>	<u>6</u>	<u>2</u>	<u>X</u>	<u>6.8</u>	<u>MeOH: Me</u>
									<u>HNO₃: HN</u>
									<u>NaOH: Na</u>
									<u>H₂PO₄: HP</u>
									<u>NaHSO₄: NABIS</u>
									<u>Na₂S₂O₅: NaSO₃</u>
									<u>Zn Acetate+NaOH: Zn</u>
									<u>NaOH+Ascorbic Acid: SAIP</u>



890-5593 Chain of Custody

Total 2007/6010 2008/6020: 8RCRA 13PPM Texas 17 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed: TCP / SPL 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 11/8

Relinquished by: (Signature) [Signature] Received by: (Signature) [Signature] Date/Time 11/8

Revised Date: 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5593-1
SDG Number: Eddy County NM

Login Number: 5593
List Number: 1
Creator: Bruns, Shannon

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	N/A	Refer to Job Narrative for details.
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5593-1
SDG Number: Eddy County NM

Login Number: 5593
List Number: 3
Creator: Torrez, Lisandra

List Source: Eurofins Houston
List Creation: 11/10/23 05:34 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-5593-1
SDG Number: Eddy County NM

Login Number: 5593
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 11/10/23 10:59 AM


Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	


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APPENDIX B


Lithologic Soil Sampling Logs


								Sample Name: SS01/PH01	Date: 5/2/24-1/16/25
								Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1	
								Incident Number: nAPP2210343535 & nAPP2231458632	
								Job Number: 03B1417173	
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: ND, SD	Method: Auger/Geoprobe
Coordinates: 32.222886, -103.982714								Hole Diameter: 6"	Total Depth: 25'
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions	
	ND	5.2		SS01	0.5	0 0.5	CL	Sandy Clay	
	ND	5.7				1	SP	Sand	
	263	8.7		PH01	2	2	SP	Sand	
	1635	1.2				3	Sp	Sand	
	1220	0.7				4	Sp	Sand	
	1316	0.7				5	SP	Sand	
	1758	0.5				6	SP	Sand	
	2016	0.7		PH01	7	7	SP	Sand	
D	1,265	1.0		PH01		8	SP	Caliche/Sand mix	
	386.4	0.6		PH01	9	9	SP	Caliche/Sand mix	
D	767.2	1.3			10	10	SP	Sand, very fine grain, red	
D	414.2	0.5		PH01	12	12	CL	Sandy clay, red	
D	840	0.9			14	14	CL	Sandy clay, red	


					Sample Name: SS01/PH01		Date: 5/2/24-1/16/25	
					Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
					Incident Number: nAPP2210343535 & nAPP2231458632			
					Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: ND, SD		Method: Auger/Geoprobe	
Coordinates: 32.222886, -103.982714					Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
				SS01		0		
D	577	0.0			16	16	SP	Sand, very fine grain, red
M	414	0.7			18	18	SP	Sand, very fine grain, red
M	515	1.3			20	20	SP	Sand, fine grain, red
M	515	0.7			22	22	SP	Sand, fine grain, red
M	515	0.0		PH01	24	24	SP	Sand, fine grain, red
W	780	1.7		PH01	25	25	SP	Sand, fine grain, red


					Sample Name: SS02/PH02		Date: 5/2/24-8/6/24	
					Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
					Incident Number: nAPP2210343535 & nAPP2231458632			
					Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: Noah Duker		Method: Hand Auger	
Coordinates: 32.222612, -103.982735					Hole Diameter: 6"		Total Depth: 8	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
	>3561	1.2		SS02	0.5	0 0.5	SP	Sand
	>3561	1.4		PH02	1	1	SP	Sand
	>3561	0.9				2	SP	Sand
	>3561	0.6				3	CL	Sandy Clay
	>3561	0.5				4	CL	Clay
	>3561	0.5				5	CL	Clay
	>3561	0.3				6	CL	Clay
	>3561	0.6				7	CL	Clay
	>3561	0.7		PH02	8	8	CL	Clay
						9		Refusal @ 9'
						10		
						11		
						12		


								Sample Name: SS03/PH03		Date: 5/2/24-1/16/25	
								Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
								Incident Number: nAPP2210343535 & nAPP2231458632			
								Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: ND, SD		Method: Auger/Geoprobe	
Coordinates: 32.222447, -103.982844								Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
	>3561	0.6		SS03	0.5	0 0.5	SP	Sand			
	>3561	0.5			1	1	SP	Sand			
D	465	0.0		PH03	2	2	SM	Silty sand, dark brown			
	>3561	0.8		PH03	3	3	SP	Sand			
	>3561	0.5			4	4	SP	Sand			
	>3561	0.7			5	5	SP	Sand			
	>3561	0.4		PH03	6	6	SP	Sand			
					7	7	SP	Refusal with hand auger @ 7'			
D	700	0.4			8	8	SM	Silty sand, dark brown			
D	918	0.8			10	10	SM	Silty sand, dark brown			
D	576	0.2			12	12	SM	Silty sand, light reddish brown			
D	515	1.3		PH03	14	14	SM	Silty sand, some gravel, reddish brown			
M	700	0.6			16	16	SP	Sand, fine grain, some clay, reddish brown			


		Sample Name: SS03/PH03		Date: 5/2/24-1/16/25				
		Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1						
		Incident Number: nAPP2210343535 & nAPP2231458632						
		Job Number: 03B1417173						
LITHOLOGIC / SOIL SAMPLING LOG								
Coordinates: 32.222447, -103.982844			Logged By: ND, SD		Method: Auger/Geoprobe			
			Hole Diameter: 6"		Total Depth: 25'			
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	767	0.5			18	18	CL	Sandy clay, red
M	840	0.0			20	20	CL	Sandy clay, red
M	465	0.9			22	22	CL	Sand, some clay, red
M	515	0.0		PH03	24	24	SP	Sand, very fine grain, red
M	840	0.0		PH03	25	25	SP	Sand, very fine grain, red


					Sample Name: SS04/PH04		Date: 5/2/24-8/7/24	
					Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
					Incident Number: nAPP2210343535 & nAPP2231458632			
					Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: ND		Method: Hand Auger	
Coordinates: 32.222197, -103.982798					Hole Diameter: 6"		Total Depth: 9'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
	>3561	1.2		SS04	0.5	0 0.5	CL	Clay
	>3561	0.9				1	CL	Clay
	>3561	2.6		PH04	2	2	CL	Clay
	>3561	2.3				3	CL	Clay
	>3561	1.7				4	CL	Clay
	>3561	1.3				5	CL	Clay
	>3561	0.9				6	CL	Clay
	>3561	0.8				7	CL	Clay
	>3561	0.8				8	CL	Clay
	>3561	0.9		PH04	9	9	CL	Clay
						10		Refusal @ 10'
						11		
						12		


								Sample Name: SS05/PH05		Date: 5/2/24-1/17/25	
								Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
								Incident Number: nAPP2210343535 & nAPP2231458632			
								Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: ND, SD		Method: Auger/Geoprobe	
Coordinates: 32.221861, -103.9828								Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% Correction factor included											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
	ND	0.2		SS05	0.5	0	SP	Sand			
	ND	0.2				1	SP	Sand			
D	ND	0.2		PH05	2	2	SM	Silty sand, dark brown			
D	ND	0.1			4	4	SM	Silty sand, dark brown			
D	1,982	0.8		PH05	6	6	SM	Silty sand, dark brown			
D	1,842	0.8			8	8	SM	Silty sand, dark brown			
D	464.8	0.0			10	10	SM	Silty sand, some clay, dark brown			
D	840	0.0			12	12	CL	Sandy clay, dark brown			
D	464.8	0			14	14	SP	Sand, fine grain, light reddish brown			
M	414.4	0			16	16	SP	Sand, fine grain, light reddish brown			
M	515.2	0			18	18	SP	Sandy, some clay, brown			
M	515.2	0			20	20	SP	Sand, very fine grain, red			
M	840	0			22	22	SP	Sand, very fine grain, red			


					Sample Name: SS05/PH05		Date: 5/2/24-1/17/25	
					Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
					Incident Number: nAPP2210343535 & nAPP2231458632			
					Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: ND, SD		Method: Auger/Geoprobe	
Coordinates: 32.221861, -103.9828					Hole Diameter: 6"		Total Depth: 25'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	840	0.0		PH05	24	24	SP	Sand, very fine grain, red
W	576.8	0.0		PH05	25	25	SP	Sand, very fine grain, red


							Sample Name: SS06/PH06		Date: 5/2/24-8/6/24					
							Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1				Incident Number: nAPP2210343535 & Napp2231458632			
							Job Number: 03B1417173				Logged By: Noah Duker		Method: Hand Auger	
							Coordinates: 32.222668, -103.982607				Hole Diameter: 6"		Total Depth: 9'	
LITHOLOGIC / SOIL SAMPLING LOG														
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.														
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions						
				SS06		0								
	487	0.6				1	SP	Sand						
	1635	0.4				2	SP	Sand						
	3063	0.3				3	SP	Sand						
	2475	0.4				4	CL	Sandy Clay						
	3561	0.3				5	CL	Clay						
	2654	0.4				6	CL	Clay						
	2312	0.2				7	CL	Clay						
	>3561	0.2		PH06	8	8	CL	Caliche/Clay mix						
	3063	0.6		PH06	9	9	CCHE	Caliche						
						10								
						11								
						12								


								Sample Name: SS07/PH07		Date: 5/2/24-8/7/24	
								Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
								Incident Number: nAPP2210343535 & Napp2231458632			
								Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Noah Duker		Method: Hand Auger	
Coordinates: 32.222462, -103.982610								Hole Diameter: 6"		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
	>3561	21.2		SS07	0.25	0	CL	Clay			
	>3561	17.4				1	CL	Clay			
	>3561	17.7				2	CL	Clay			
	>3561	13.4				3	CL	Clay			
	>3561	12.2				4	CL	Clay			
	>3561	11.4				5	CL	Clay			
	>3561	3.8				6	CL	Clay			
	3561	2.9		PH07	7	7	CL	Clay			
						8		Refusal @ 8'			
						9					
						10					
						11					
						12					

							Sample Name: SS08/PH08		Date: 5/2/24-8/7/2024	
							Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
							Incident Number: nAPP2210343535 & nAPP2231458632			
							Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Noah Duker		Method: Hand Auger	
Coordinates: 32.222402, -103.982325							Hole Diameter: 6"		Total Depth: 8'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
	2016	2.6		SS08		0	CL	Clay		
	1880	1.8				1	CL	Clay		
	>3561	0.9				2	CL	Clay		
	>3561	1.3				3	CL	Clay		
	>3561	1.2				4	CL	Clay		
	>3561	1.6		PH08	5	5	CL	Clay		
	>3561	1.3				6	CL	Clay		
	>3561	1.2				7	CL	Clay		
	>3561	1		PH08	8	8	CL	Clay		
						9		Refusal @ 9'		
						10				
						11				
						12				

								Sample Name: SS09/PH09		Date: 5/2/24-8/8/2024	
								Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
								Incident Number: nAPP2210343535 & nAPP2231458632			
								Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Noah Duker		Method: Hand Auger	
Coordinates: 32.222485, -103.982004								Hole Diameter: 6"		Total Depth: 7'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
	>3561	0.8		SS09		0	CL	Clay			
	>3561	6.2		PH09	1	1	CL	Clay			
	>3561	4.1				2	CL	Clay			
	>3561	0.7				3	CL	Clay			
	>3561	0.4				4	CL	Clay			
	>3561	0.3				5	CL	Clay			
	>3561	2.4				6	CL	Clay			
	>3561	2		PH09	7	7	CL	Clay			
						8		Refusal @ 8'			
						9					
						10					
						11					
						12					

							Sample Name: SS10/PH10		Date: 5/2/24-8/8/2024	
							Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1			
							Incident Number: nAPP2210343535 & nAPP2231458632			
							Job Number: 03B1417173			
LITHOLOGIC / SOIL SAMPLING LOG							Logged By: Noah Duker		Method: Hand Auger	
Coordinates: 32.222357, -103.981810							Hole Diameter: 6"		Total Depth: 5'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.										
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions		
	2161	1.3		SS10		0	SP	Sand		
	2312	1.1		PH10	1	1	SP	Sand		
	1125	0.7				2	SP	Sand		
	599	0.4				3	SP	Sand		
	599	0.2				4	SP	Sand		
	ND	0.2		PH10	5	5	SP	Sand		
						6				
						7				
						8				
						9				
						10				
						11				
						12				

		Sample Name: SS11/PH11		Date: 5/2/24-1/17/25				
		Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1						
		Incident Number: nAPP2210343535 & nAPP2231458632						
		Job Number: 03B1417173						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: ND, SD		Method: Auger/Geoprobe		
Coordinates: 32.222338, -103.981581				Hole Diameter: 2"		Total Depth: 24'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
D	196	0.3		SS11	0.25	0	SP	Sand
D	ND	0.2			1	1	SP	Sand
D	ND	0.2			2	2	SP	Sand
D	ND	0.2		PH11	3	3	SP	Sand
D	2,699	0			4	4	CL	Sandy clay, dark brown
D	3,336	0		PH11	5	5	CL	Sandy clay, dark brown
D	2,861	0			6	6	CL	Sandy clay, brown
D	2,654	0			8	8	CL	Sandy clay, brown
M	638	0		PH11	10	10	SP	Sandy, fine grain, dark brown
M	319.2	0.5			12	12	CL	Sandy clay, pink
M	515.2	0.6			14	14	CL	Sandy clay, pinkish grey
M	515.2	0.8			16	16	CL	Sandy clay, pinkish grey
M	464.8	0.2			18	18	CL	Clay/sandy, light yellow

		Sample Name: SS11/PH11 cont.		Date: 5/2/24-1/17/25				
		Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1						
		Incident Number: nAPP2210343535 & nAPP2231458632						
		Job Number: 03B1417173						
LITHOLOGIC / SOIL SAMPLING LOG				Logged By: ND, SD		Method: Auger/Geoprobe		
Coordinates: 32.222338, -103.981581				Hole Diameter: 6"		Total Depth: 24'		
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% correction factor included.								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
M	319.2	0.1			20	20	CL	Sandy clay, dark brown
M	4,648	1.7		PH11	22	22	CL	Sandy clay, reddish yellow
W	464.8	1.5			24	24	SP	Sand, very fine grain, yellowish red
W	364	1.3		PH11	25	25	CL	Sandy clay, yellowish red



APPENDIX C
Photographic Log



Photographic Log

Oxy USA Inc.

Cedar Canyon 16 ST 008H & Cypress Federal 33-1
nAPP2210343535 & nAPP2231458632



Photograph: 1 Date: 4/15/2022
Description: nAPP2210343535 release
View: Direct

Photograph: 2 Date: 11/7/2022
Description: nAPP2231458632 release
View: Direct



Photograph: 3 Date: 11/7/2022
Description: nAPP2231458632 release
View: Direct

Photograph: 4 Date: 5/2/2024
Description: Assessment activities
View: North



Photographic Log

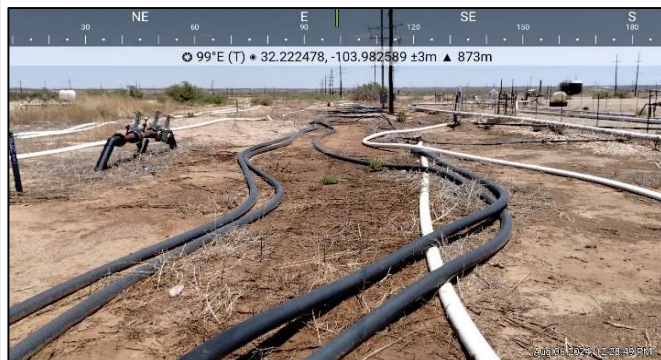
Oxy USA Inc.

Cedar Canyon 16 ST 008H & Cypress Federal 33-1
nAPP2210343535 & nAPP2231458632



Photograph: 5 Date: 5/2/2024
Description: Assessment activities
View: South

Photograph: 6 Date: 8/6/2024
Description: Delineation activities
View: Northwest



Photograph: 7 Date: 8/6/2024
Description: Delineation activities
View: East

Photograph: 8 Date: 8/7/2024
Description: Delineation activities
View: West



Photographic Log

Oxy USA Inc.

Cedar Canyon 16 ST 008H & Cypress Federal 33-1
nAPP2210343535 & nAPP2231458632



Photograph: 9 Date: 1/16/2025
Description: Site view taken during geoprobe assessment
View: West

Photograph: 10 Date: 1/16/2025
Description: Site view taken during geoprobe assessment
View: Northeast



Photograph: 11 Date: 1/16/2025
Description: Site view taken during geoprobe assessment
View: East

Photograph: 12 Date: 1/16/2025
Description: geoprobe delineation activities
View: North



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 08, 2024

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

RE: CYPRESS FEDERAL 33-1

Enclosed are the results of analyses for samples received by the laboratory on 05/02/24 16:08.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 01 0.5' (H242387-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.47	108	6.00	2.12	
Total BTEX	<0.300	0.300	05/04/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80	
DRO >C10-C28*	340	10.0	05/03/2024	ND	229	115	200	3.00	
EXT DRO >C28-C36	158	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 02 0.5' (H242387-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.47	108	6.00	2.12	
Total BTEX	<0.300	0.300	05/04/2024	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	24800	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	05/04/2024	ND	217	108	200	2.80		
DRO >C10-C28*	14800	50.0	05/04/2024	ND	229	115	200	3.00		
EXT DRO >C28-C36	5340	50.0	05/04/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 423 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 03 0.5' (H242387-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	2.06	103	2.00	1.84	
Toluene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.30	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	2.12	106	2.00	2.66	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	6.47	108	6.00	2.12	
Total BTEX	<0.300	0.300	05/04/2024	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	52000	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	229	115	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 102 % 48.2-134

Surrogate: 1-Chlorooctadecane 103 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 04 0.5' (H242387-04)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698		
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146		
Total BTEX	<0.300	0.300	05/04/2024	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	97600	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80		
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	229	115	200	3.00		
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 107 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 05 0.5' (H242387-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.080	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698	
Toluene*	0.212	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146	
Total BTEX	0.408	0.300	05/04/2024	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	272	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80	
DRO >C10-C28*	<10.0	10.0	05/03/2024	ND	229	115	200	3.00	
EXT DRO >C28-C36	<10.0	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 92.9 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 06 0.5' (H242387-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698	
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146	
Total BTEX	<0.300	0.300	05/04/2024	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	736	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80	
DRO >C10-C28*	216	10.0	05/03/2024	ND	229	115	200	3.00	
EXT DRO >C28-C36	88.1	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 99.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 108 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 07 0.5' (H242387-07)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698		
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238		
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288		
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146		
Total BTEX	<0.300	0.300	05/04/2024	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	24800	16.0	05/07/2024	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<50.0	50.0	05/04/2024	ND	217	108	200	2.80			
DRO >C10-C28*	19400	50.0	05/04/2024	ND	229	115	200	3.00			
EXT DRO >C28-C36	7220	50.0	05/04/2024	ND							

Surrogate: 1-Chlorooctane 115 % 48.2-134

Surrogate: 1-Chlorooctadecane 553 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 08 0.5' (H242387-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698	
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146	
Total BTEX	<0.300	0.300	05/04/2024	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	3080	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	05/04/2024	ND	217	108	200	2.80		
DRO >C10-C28*	20800	50.0	05/04/2024	ND	229	115	200	3.00		
EXT DRO >C28-C36	8180	50.0	05/04/2024	ND						

Surrogate: 1-Chlorooctane 106 % 48.2-134

Surrogate: 1-Chlorooctadecane 555 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 09 0.5' (H242387-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698	
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146	
Total BTEX	<0.300	0.300	05/04/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.5 % 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	2840	16.0	05/07/2024	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<50.0	50.0	05/04/2024	ND	217	108	200	2.80		
DRO >C10-C28*	21100	50.0	05/04/2024	ND	229	115	200	3.00		
EXT DRO >C28-C36	8400	50.0	05/04/2024	ND						

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 560 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 10 0.5' (H242387-10)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/05/2024	ND	1.87	93.6	2.00	0.698		
Toluene*	<0.050	0.050	05/05/2024	ND	1.93	96.4	2.00	0.238		
Ethylbenzene*	<0.050	0.050	05/05/2024	ND	1.97	98.5	2.00	0.288		
Total Xylenes*	<0.150	0.150	05/05/2024	ND	5.73	95.5	6.00	0.146		
Total BTEX	<0.300	0.300	05/05/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 91.6 % 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	17200	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80		
DRO >C10-C28*	374	10.0	05/03/2024	ND	229	115	200	3.00		
EXT DRO >C28-C36	162	10.0	05/03/2024	ND						

Surrogate: 1-Chlorooctane 98.9 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	05/02/2024	Sampling Date:	05/02/2024
Reported:	05/08/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Tamara Oldaker
Project Location:	EDDY COUNTY, NM		

Sample ID: SS 11 (H242387-11)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/04/2024	ND	1.87	93.6	2.00	0.698	
Toluene*	<0.050	0.050	05/04/2024	ND	1.93	96.4	2.00	0.238	
Ethylbenzene*	<0.050	0.050	05/04/2024	ND	1.97	98.5	2.00	0.288	
Total Xylenes*	<0.150	0.150	05/04/2024	ND	5.73	95.5	6.00	0.146	
Total BTEX	<0.300	0.300	05/04/2024	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	16200	16.0	05/07/2024	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	05/03/2024	ND	217	108	200	2.80	
DRO >C10-C28*	346	10.0	05/03/2024	ND	229	115	200	3.00	
EXT DRO >C28-C36	136	10.0	05/03/2024	ND					

Surrogate: 1-Chlorooctane 104 % 48.2-134

Surrogate: 1-Chlorooctadecane 117 % 49.1-148

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Notes and Definitions

- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND Analyte NOT DETECTED at or above the reporting limit
RPD Relative Percent Difference
** Samples not received at proper temperature of 6°C or below.
*** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Company Name: <u>Environ LLC</u>		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Hondie Green</u>		Company: <u>OKY USA, Inc</u>					
Address: <u>601 N. Marland St. Ste. 400</u>		Attn: <u>Wade Dyer</u>					
City: <u>Midland</u>		Address:					
Phone #: <u>432-557-8895</u>		City:					
Project #: <u>0381417173</u>		State:					
Project Name: <u>CP095 Federal 33-1</u>		Zip:					
Project Location: <u>Eddy County, NM</u>		Phone #:					
Sampler Name: <u>Nash Baker</u>		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
Lab I.D. <u>AB4387</u>		Sample I.D. <u>Depth</u>					
		(G)RAB OR (C)OMP.					
		# CONTAINERS					
		GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE		TIME			
<u>1</u>		<u>5/01</u>		<u>11:00</u>		<u>BTEX</u>	
<u>2</u>		<u>5/02</u>		<u>11:05</u>		<u>TPH</u>	
<u>3</u>		<u>5/03</u>		<u>11:10</u>		<u>Chlorides</u>	
<u>4</u>		<u>5/04</u>		<u>11:15</u>			
<u>5</u>		<u>5/05</u>		<u>11:20</u>			
<u>6</u>		<u>5/06</u>		<u>11:25</u>			
<u>7</u>		<u>5/07</u>		<u>11:30</u>			
<u>8</u>		<u>5/08</u>		<u>11:35</u>			
<u>9</u>		<u>5/09</u>		<u>11:40</u>			
<u>10</u>		<u>5/10</u>		<u>11:45</u>			

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Relinquished By: MM Date: 5-2-24 Received By: Wade Dyer Verbal Result: Yes No Add'l Phone #: hoyren@environ.com

Delivered By: (Circle One) Observed Temp. °C: 0.7 Sample Condition: Intact Leaking Broken

Sampler - UPS - Bus - Other: Corrected Temp. °C: 16.08 Checked By: Wade Dyer

Turnaround Time: Standard Rush Bacteria (only) Sample Condition: Intact Leaking Broken

Thermometer ID #140 Correction Factor 0°C: 0.7 Cool Intact: Yes No Observed Temp. °C: 16.08 Corrected Temp. °C: 16.08

Form 9000 Rev 07/11/23 † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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

August 14, 2024

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

RE: CYPRESS FEDERAL 33-1

Enclosed are the results of analyses for samples received by the laboratory on 08/08/24 13:32.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 2' (H244805-01)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.5 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 7' (H244805-02)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 81.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 01 9' (H244805-03)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 93.3 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 1' (H244805-04)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9760	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00	
DRO >C10-C28*	378	10.0	08/09/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	213	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 83.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 02 8' (H244805-05)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00	
DRO >C10-C28*	13.6	10.0	08/09/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	16.1	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 85.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 99.3 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 3' (H244805-06)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 89.7 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 03 6' (H244805-07)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	18800	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 91.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 0.25' (H244805-08)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	448	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 05 2' (H244805-09)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	08/12/2024	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	08/09/2024	ND	205	103	200	7.00		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	201	100	200	4.21		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.3 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 8' (H244805-10)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	08/12/2024	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	08/10/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/10/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/10/2024	ND					

Surrogate: 1-Chlorooctane 82.2 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/06/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 06 9' (H244805-11)

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	08/12/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/12/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/12/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/12/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/12/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 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	6640	16.0	08/12/2024	ND	416	104	400	3.77	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	08/10/2024	ND	205	103	200	7.00		
DRO >C10-C28*	<10.0	10.0	08/10/2024	ND	201	100	200	4.21		
EXT DRO >C28-C36	<10.0	10.0	08/10/2024	ND						

Surrogate: 1-Chlorooctane 84.2 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 2' (H244805-12)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	08/12/2024	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	08/10/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/10/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/10/2024	ND					

Surrogate: 1-Chlorooctane 88.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 04 9' (H244805-13)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	08/12/2024	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	08/10/2024	ND	205	103	200	7.00	
DRO >C10-C28*	<10.0	10.0	08/10/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	<10.0	10.0	08/10/2024	ND					

Surrogate: 1-Chlorooctane 86.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 101 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 0.25' (H244805-14)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/12/2024	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	08/10/2024	ND	205	103	200	7.00	
DRO >C10-C28*	2210	10.0	08/10/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	944	10.0	08/10/2024	ND					

Surrogate: 1-Chlorooctane 98.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 148 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 07 7' (H244805-15)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	08/12/2024	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	08/10/2024	ND	205	103	200	7.00	
DRO >C10-C28*	737	10.0	08/10/2024	ND	201	100	200	4.21	
EXT DRO >C28-C36	332	10.0	08/10/2024	ND					

Surrogate: 1-Chlorooctane 81.1 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 08 5' (H244805-16)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	375	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	225	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 85.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.2 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/07/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 08 8' (H244805-17)

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	08/10/2024	ND	2.24	112	2.00	2.07	
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02	
Total BTEX	<0.300	0.300	08/10/2024	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	24800	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	18.7	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	12.9	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 89.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 09 1' (H244805-18)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	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	22000	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.3 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 09 7' (H244805-19)

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	08/10/2024	ND	2.24	112	2.00	2.07		
Toluene*	<0.050	0.050	08/10/2024	ND	2.29	114	2.00	1.08		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.34	117	2.00	1.05		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	7.15	119	6.00	1.02		
Total BTEX	<0.300	0.300	08/10/2024	ND						

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

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7200	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 102 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 10 1' (H244805-20)

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	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTEX	<0.300	0.300	08/10/2024	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 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	2720	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 72.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.6 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 10 5' (H244805-21)

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	08/10/2024	ND	2.06	103	2.00	0.178		
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769		
Total BTEX	<0.300	0.300	08/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 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	08/12/2024	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	08/09/2024	ND	207	104	200	4.56		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 74.5 % 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: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 11 0.25' (H244805-22)

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	08/10/2024	ND	2.06	103	2.00	0.178	
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540	
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610	
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769	
Total BTEX	<0.300	0.300	08/10/2024	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56	
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62	
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND					

Surrogate: 1-Chlorooctane 69.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 08/08/2024
 Reported: 08/14/2024
 Project Name: CYPRESS FEDERAL 33-1
 Project Number: 03B1417173
 Project Location: OXY - EDDY COUNTY, NM

Sampling Date: 08/08/2024
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: PH 11 3' (H244805-23)

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	08/10/2024	ND	2.06	103	2.00	0.178		
Toluene*	<0.050	0.050	08/10/2024	ND	2.01	100	2.00	0.540		
Ethylbenzene*	<0.050	0.050	08/10/2024	ND	2.10	105	2.00	0.610		
Total Xylenes*	<0.150	0.150	08/10/2024	ND	6.21	104	6.00	0.769		
Total BTEX	<0.300	0.300	08/10/2024	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.8 % 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	32.0	16.0	08/12/2024	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	08/09/2024	ND	207	104	200	4.56		
DRO >C10-C28*	<10.0	10.0	08/09/2024	ND	216	108	200	5.62		
EXT DRO >C28-C36	<10.0	10.0	08/09/2024	ND						

Surrogate: 1-Chlorooctane 76.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.9 % 49.1-148

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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 4

Company Name: Ensolum, LLC

Project Manager: *Sallyantha Maloney*

Address: 601 N Marientfield Street, Suite 400

City: Midland

State: TX Zip: 79701

Phone #: 703-357-3945

Fax #: Project Owner:

Project #: 038147173

Project Owner:

Project Name: *Cypress Federal 33-1*

Project Location: *Eddy County, NM*

Project Location: *Eddy County, NM*

Sampler Name: NKD

FOR LAB USE ONLY

Lab I.D. *H24805*

Sample I.D.

11

Depth (feet)

PH6

9'

WTF

W4

8/16/24

1200

X

X

X

BTEX 8021

TPH 8015

Chlorides 4500

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

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X

X

X

X

X

X



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolium, LLC
 Project Manager: SANDHYA MURKESHI
 Address: 601 N Marland Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 703-357-3525 Fax #: _____
 Project #: 038147173 Project Owner: _____
 Project Name: Young Federal 334 City: _____
 Project Location: Eddy County, NM State: _____ Zip: _____
 Sampler Name: AKD Neah Putter Phone #: _____ Fax #: _____

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	SAMPLING	DATE	TIME	REMARKS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :					
H944805															
12	P404	2'	C	1	X							8/12/24	0940	BTEX 802	
13	P404	2'	C	1	X							8/12/24	1025	TPH 805	
14	P407	0.25'	C	1	X							8/14/24	1100	Chlorides 4500	
15	P407	7'	C	1	X							8/12/24	1200		
16	P408	5'	C	1	X							8/14/24	1300		
17	P408	8'	C	1	X							8/12/24	1315		
	NFE	NED													

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Relinquished By: MW Date: 8/8/24 Time: 1352
 Received By: Spokane
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: spokane@ensolium.com
 REMARKS: _____

Delivered By: (Circle One) UPS Observed Temp. °C: 10.0 Sample Condition: Intact CHECKED BY: SE
 Corrected Temp. °C: 0.4 Cool Intact: Yes No
 Turnaround Time: 8.0 Standard Rush Bacteria (only) Sample Condition: Observed Temp. °C
 Thermometer ID: #173 #14 Cool Intact: Yes No
 Correction Factor: 0.0 0.0 Corrected Temp. °C: _____

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

3 of



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: *Sawyer Kelly Mackenzie*
 Address: 601 N Marland Street, Suite 400
 City: Midland State: TX Zip: 79701
 Phone #: 703-357-3545 Fax #:
 Project #: 0321417173 Project Owner:
 Project Name: *Cypress Federal 33-1* City: State: Zip:
 Project Location: *Eddy County NM* Phone # Fax #:
 Sampler Name: *John Piker*

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	REMARKS	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:				ICE / COOL
<i>18</i>	<i>P409</i>	<i>7'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>0910</i>	<i>BTEX 8021</i>	
<i>20</i>	<i>P410</i>	<i>5'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1035</i>	<i>TPH 8015</i>	
<i>21</i>	<i>P410</i>	<i>5'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1055</i>	<i>TPH 8015</i>	
<i>23</i>	<i>P411</i>	<i>0.25'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1130</i>	<i>TPH 8015</i>	
	<i>P411</i>	<i>3'</i>	<i>C</i>	<i>1</i>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<i>1145</i>	<i>TPH 8015</i>	
	<i>NFE</i>	<i>NFE</i>													

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Relinquished By: *John Piker* Received By: *Steddie Jones*
 Date: *8-8-24* Time: *1332*
 Relinquished By: *John Piker* Received By: *Steddie Jones*

Delivered By: (Circle One) Observed Temp. °C: *1.0* Sample Condition: Intact Cool Yes No
 Corrected Temp. °C: *0.4* Checked By: *SR*
 Turnaround Time: Standard Add'l Phone #:
 Thermometer ID: *1113* # *110* Bacteria (only) Sample Condition: Intact Cool Yes No
 Correction Factor: *0.02* Corrected Temp. °C:
 REMARKS: *SNACKENZIE @ ENSOLUM, LLC*

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



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

January 28, 2025

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

RE: CYPRESS FEDERAL 33-1

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 11:49.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 11 22'	H250282-01	Soil	16-Jan-25 09:40	17-Jan-25 11:49
PH 11 25'	H250282-02	Soil	16-Jan-25 09:55	17-Jan-25 11:49
PH 05 2'	H250282-03	Soil	17-Jan-25 08:45	17-Jan-25 11:49
PH 05 6'	H250282-04	Soil	17-Jan-25 08:50	17-Jan-25 11:49
PH 05 24'	H250282-05	Soil	17-Jan-25 09:05	17-Jan-25 11:49
PH 05 25'	H250282-06	Soil	17-Jan-25 09:10	17-Jan-25 11:49
PH 01 8'	H250282-07	Soil	16-Jan-25 11:30	17-Jan-25 11:49
PH 01 12'	H250282-08	Soil	16-Jan-25 11:40	17-Jan-25 11:49
PH 01 24'	H250282-09	Soil	16-Jan-25 11:57	17-Jan-25 11:49
PH 01 25'	H250282-10	Soil	16-Jan-25 11:58	17-Jan-25 11:49
PH 03 2'	H250282-11	Soil	16-Jan-25 13:42	17-Jan-25 11:49
PH 03 14'	H250282-12	Soil	16-Jan-25 14:07	17-Jan-25 11:49
PH 03 24'	H250282-13	Soil	16-Jan-25 14:29	17-Jan-25 11:49
PH 03 25'	H250282-14	Soil	16-Jan-25 14:30	17-Jan-25 11:49

01/28/25 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 01/21/25.

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 11 22'
H250282-01 (Soil)

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

Inorganic Compounds

Chloride	704		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	QM-07
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	QM-07
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			94.8 %		71.5-134	5011753	JH	18-Jan-25	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctane			101 %		48.2-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			104 %		49.1-148	5011752	MS	17-Jan-25	8015B	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 11 25'
H250282-02 (Soil)

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

Inorganic Compounds

Chloride	800		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %	71.5-134		5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			102 %	48.2-134		5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			104 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 05 2'
H250282-03 (Soil)

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

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %	71.5-134		5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			86.4 %	48.2-134		5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			85.8 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 05 6'
H250282-04 (Soil)

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

Inorganic Compounds

Chloride	1090		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			93.6 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			70.6 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.3 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 05 24'
H250282-05 (Soil)

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

Inorganic Compounds

Chloride	784		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.5 %	71.5-134		5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			107 %	48.2-134		5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			110 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 05 25'
H250282-06 (Soil)

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

Inorganic Compounds

Chloride	704		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.4 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 01 8'
H250282-07 (Soil)

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

Inorganic Compounds

Chloride	1120		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %	71.5-134		5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %	48.2-134		5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 01 12'
H250282-08 (Soil)

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

Inorganic Compounds

Chloride	736		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.9 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 01 24'
H250282-09 (Soil)

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

Inorganic Compounds

Chloride	592		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.1 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			105 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			107 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 01 25'
H250282-10 (Soil)

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

Inorganic Compounds

Chloride	624		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			103 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			106 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 03 2'
H250282-11 (Soil)

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

Inorganic Compounds

Chloride	4800		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.6 %	71.5-134		5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			78.5 %	48.2-134		5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.7 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 03 14'
H250282-12 (Soil)

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

Inorganic Compounds

Chloride	560		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.7 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			97.7 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			98.9 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 03 24'
H250282-13 (Soil)

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

Inorganic Compounds

Chloride	320		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			101 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			103 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
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PH 03 25'
H250282-14 (Soil)

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

Inorganic Compounds

Chloride	816		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			95.6 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			106 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			108 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5011781 - 1:4 DI Water										
Blank (5011781-BLK1) Prepared & Analyzed: 17-Jan-25										
Chloride	ND	16.0	mg/kg							
LCS (5011781-BS1) Prepared & Analyzed: 17-Jan-25										
Chloride	448	16.0	mg/kg	400		112	80-120			
LCS Dup (5011781-BSD1) Prepared & Analyzed: 17-Jan-25										
Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	
Batch 5012011 - 1:4 DI Water										
Blank (5012011-BLK1) Prepared & Analyzed: 20-Jan-25										
Chloride	ND	16.0	mg/kg							
LCS (5012011-BS1) Prepared & Analyzed: 20-Jan-25										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5012011-BSD1) Prepared & Analyzed: 20-Jan-25										
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5011753 - Volatiles

Blank (5011753-BLK1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.1	71.5-134			

LCS (5011753-BS1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	1.84	0.050	mg/kg	2.00		91.9	82.8-130			
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128			
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	85.9-128			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.7	89-129			
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125			
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.1	71.5-134			

LCS Dup (5011753-BSD1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	1.89	0.050	mg/kg	2.00		94.4	82.8-130	2.60	15.8	
Toluene	2.01	0.050	mg/kg	2.00		100	86-128	1.51	15.9	
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.6	85.9-128	0.480	16	
m,p-Xylene	3.81	0.100	mg/kg	4.00		95.1	89-129	0.507	16.2	
o-Xylene	1.92	0.050	mg/kg	2.00		96.1	86.1-125	0.345	16.7	
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	88.2-128	0.452	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0468		mg/kg	0.0500		93.6	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:37
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5011752 - General Prep - Organics

Blank (5011752-BLK1)			Prepared & Analyzed: 17-Jan-25							
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	48.2-134			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.8	49.1-148			

LCS (5011752-BS1)			Prepared & Analyzed: 17-Jan-25							
GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	77.7-122			
Total TPH C6-C28	400	10.0	mg/kg	400		100	80.9-121			
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	48.2-134			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	49.1-148			

LCS Dup (5011752-BSD1)			Prepared & Analyzed: 17-Jan-25							
GRO C6-C10	221	10.0	mg/kg	200		110	81.5-123	5.74	13	
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122	6.28	15.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	80.9-121	6.00	18.5	
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	48.2-134			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
 Project Manager: Hadlie Green
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 432-557-8895 Email: hgreen@ensolum.com
 Project #: 0281817173 Project Owner: OXY
 Project Name: Cross 33-1
 Project Location: Elder Co NM
 Sampler Name: Shane Diller
 P.O. #: _____ Company: _____
 Address: _____ City: _____
 State: _____ Zip: _____
 Phone #: _____ Email: _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING	DATE	TIME	TPH 8015	BTEX8021b	Chlorides 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE							
1000002	PH-2-11	22	C 1	X								1-16-25	940	X	X	X
2	PH-2-11	25	C 1	X								1-16-25	955	X	X	X
3	PH-2-05	2	C 1	X								1-17-25	845	X	X	X
4	PH-2-05	6	C 1	X								1-17-25	850	X	X	X
5	PH-2-05	24	C 1	X								1-17-25	905	X	X	X
6	PH-2-05	25	C 1	X								1-17-25	910	X	X	X
7	PH-3-01	8	C 1	X								1-16-25	1130	X	X	X
8	PH-3-01	12	C 1	X								1-16-25	1140	X	X	X
9	PH-3-01	24	C 1	X								1-16-25	1157	X	X	X
10	PH-3-01	25	C 1	X								1-16-25	1158	X	X	X

ALERT: Lashes and changes. Customers taking and client records ready for any claim saving software based in control or not, void be linked to the amount paid by the client for the analysis.
 In an event that Cardinal Laboratories is unable to provide the services requested by the client, the client shall be notified immediately by email or phone. Cardinal Laboratories is not responsible for the performance of services requested by the client, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: [Signature] Date: 1-17-25 Received By: [Signature] Date: 1-17-25
 Delivered By: (Circle One) Observed Temp. °C: 8.9°C Corrected Temp. °C: 8.3°C
 Sampler - UPS - Bus - Other: Sample Condition: Cool Intact No No No
 CHECKED BY: (Initials) [Signature]
 REMARKS: Customer request to ID changes. 1-17-25
 Verbal Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: klowery@ensolum.com / Blennings@ensolum.com
 Thermal Time: _____ Standard Bacterial (only)
 Trough Cool Heat Observed Temp. °C: _____
 Thermometer ID: #1410
 Correction Factor: Δ°C -0.0°C
 Add'l Phone #: _____
 Thermal Time: _____ Standard Bacterial (only)
 Trough Cool Heat Observed Temp. °C: _____
 Thermometer ID: _____
 Correction Factor: Δ°C _____

FORM-006 R 3.2 1007/21

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

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

BILL TO

ANALYSIS REQUEST

Project Manager: Hadlie Green
 Address: 601 N. Marland St. STE 400
 City: Midland State: TX Zip: 79701
 Phone #: 432-557-8895 Email: hgreen@ensolum.com
 Project #: Project Owner:
 Project Name:
 Project Location:
 Sample Name: Shane Diller
 P.O. #: Company:
 Attn: Address:
 City: State: Zip:
 Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX8021b	Chlorides 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL					
13	PH6P-403	2	C 1	1	X							1-16-25	1342	X	X	
13	PH6P-403	14	C 1	1	X							1-16-25	1467	X	X	
13	PH6P-403	24	C 1	1	X							1-16-25	1429	X	X	
13	PH6P-403	25	C 1	1	X							1-16-25	1430	X	X	

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Relinquished By: [Signature] Date: 1-17-25
 Received By: [Signature] Date: 1-17-25
 Delivered By: (Circle One) Observed Temp. °C: 29.1 Corrected Temp. °C: 28.2
 Sampler - Ups - Bus - Other: Sample Condition: Cool Intact Yes No
 Checked By: (Initials) [Signature]
 Remarks: * Customer requested ID changes. [Signature] 1/28/25
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address: kiovery@ensolum.com / bjennings@ensolum.com
 Thermometer ID #773 #140 Correction Factor -0.0°C
 Form-006 R 3.2 100721

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

January 28, 2025

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

RE: CYPRESS FEDERAL 33-1

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 11:49.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 11 5'	H250283-01	Soil	15-Jan-25 15:20	17-Jan-25 11:49
PH 11 10'	H250283-02	Soil	15-Jan-25 15:40	17-Jan-25 11:49

01/28/25 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 01/21/25.

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

PH 11 5'
H250283-01 (Soil)

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

Inorganic Compounds

Chloride	2880		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			94.9 %		71.5-134	5011753	JH	18-Jan-25	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

Surrogate: 1-Chlorooctane			97.1 %		48.2-134	5011752	MS	17-Jan-25	8015B	
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Surrogate: 1-Chlorooctadecane			98.4 %		49.1-148	5011752	MS	17-Jan-25	8015B	
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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

PH 11 10'
H250283-02 (Soil)

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

Inorganic Compounds

Chloride	256		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			94.8 %	71.5-134		5011753	JH	18-Jan-25	8021B	
----------------------------------------------	--	--	--------	----------	--	---------	----	-----------	-------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	5011752	MS	17-Jan-25	8015B	

<i>Surrogate: 1-Chlorooctane</i>			104 %	48.2-134		5011752	MS	17-Jan-25	8015B	
----------------------------------	--	--	-------	----------	--	---------	----	-----------	-------	--

<i>Surrogate: 1-Chlorooctadecane</i>			106 %	49.1-148		5011752	MS	17-Jan-25	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5012011 - 1:4 DI Water										
Blank (5012011-BLK1)										
Prepared & Analyzed: 20-Jan-25										
Chloride	ND	16.0	mg/kg							
LCS (5012011-BS1)										
Prepared & Analyzed: 20-Jan-25										
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (5012011-BSD1)										
Prepared & Analyzed: 20-Jan-25										
Chloride	448	16.0	mg/kg	400		112	80-120	3.64	20	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5011753 - Volatiles

Blank (5011753-BLK1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		95.1	71.5-134			

LCS (5011753-BS1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	1.84	0.050	mg/kg	2.00		91.9	82.8-130			
Toluene	1.98	0.050	mg/kg	2.00		98.8	86-128			
Ethylbenzene	1.94	0.050	mg/kg	2.00		97.1	85.9-128			
m,p-Xylene	3.79	0.100	mg/kg	4.00		94.7	89-129			
o-Xylene	1.91	0.050	mg/kg	2.00		95.7	86.1-125			
Total Xylenes	5.70	0.150	mg/kg	6.00		95.0	88.2-128			
Surrogate: 4-Bromofluorobenzene (PID)	0.0461		mg/kg	0.0500		92.1	71.5-134			

LCS Dup (5011753-BSD1)

Prepared: 17-Jan-25 Analyzed: 18-Jan-25

Benzene	1.89	0.050	mg/kg	2.00		94.4	82.8-130	2.60	15.8	
Toluene	2.01	0.050	mg/kg	2.00		100	86-128	1.51	15.9	
Ethylbenzene	1.95	0.050	mg/kg	2.00		97.6	85.9-128	0.480	16	
m,p-Xylene	3.81	0.100	mg/kg	4.00		95.1	89-129	0.507	16.2	
o-Xylene	1.92	0.050	mg/kg	2.00		96.1	86.1-125	0.345	16.7	
Total Xylenes	5.73	0.150	mg/kg	6.00		95.4	88.2-128	0.452	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0468		mg/kg	0.0500		93.6	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:32
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 5011752 - General Prep - Organics

Blank (5011752-BLK1)		Prepared & Analyzed: 17-Jan-25								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	44.2		mg/kg	50.0		88.4	48.2-134			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.8	49.1-148			

LCS (5011752-BS1)		Prepared & Analyzed: 17-Jan-25								
GRO C6-C10	208	10.0	mg/kg	200		104	81.5-123			
DRO >C10-C28	192	10.0	mg/kg	200		96.0	77.7-122			
Total TPH C6-C28	400	10.0	mg/kg	400		100	80.9-121			
Surrogate: 1-Chlorooctane	49.6		mg/kg	50.0		99.2	48.2-134			
Surrogate: 1-Chlorooctadecane	48.3		mg/kg	50.0		96.7	49.1-148			

LCS Dup (5011752-BSD1)		Prepared & Analyzed: 17-Jan-25								
GRO C6-C10	221	10.0	mg/kg	200		110	81.5-123	5.74	13	
DRO >C10-C28	204	10.0	mg/kg	200		102	77.7-122	6.28	15.6	
Total TPH C6-C28	425	10.0	mg/kg	400		106	80.9-121	6.00	18.5	
Surrogate: 1-Chlorooctane	48.6		mg/kg	50.0		97.2	48.2-134			
Surrogate: 1-Chlorooctadecane	46.2		mg/kg	50.0		92.4	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Hadlie Green
Address: 601 N. Marland St. STE 400
City: Midland State: TX Zip: 79701
Phone #: 432-557-8895 Email: hgreen@ensolum.com

Project #: 03B1417173 Project Owner: KY
Project Name: Express 33-1
Project Location: Eddy County NM

Sampler Name: Shane Diller

FOR USE ONLY

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH 8015	BTEX8021b	Chlorides 4500
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER: ACID/BASE:	ICE / COOL					
48-00883	PH-11 *	5	C			X					1-15-25	15:20	X	X	X	
6	PH-11	10	C			X					1-15-25	15:46	X	X	X	

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Relinquished By: [Signature]
Date: 1-17-25
Time: 11:49
Received By: [Signature]

Delivered By: (Circle One)
Sampler: UPS - Bus - Other:
Observed Temp. °C: 29.2
Corrected Temp. °C: 23.2
Sample Condition:
Cool In tact
Other No No

CHECKED BY: [Signature]
REMARKS: Paykey/FEN/AEE:
* Customer requested ID changes.
Temperature: Standard Observed Temp. °C: 29.2
Rough Add: 473 4:10
Turbidity Factor: -0.0
Correction Factor: -0.0
Add'l Phone #: []
Corrected Temp. °C: []

FORM-006 R 3.2 10/07/21

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

1 of 1



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

January 28, 2025

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

RE: CYPRESS FEDERAL 33-1

Enclosed are the results of analyses for samples received by the laboratory on 01/17/25 11:49.

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/ga/lab_accred_certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Sincerely,

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:27
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PH 05	H250284-01	Water	17-Jan-25 09:30	17-Jan-25 11:49
PH 03	H250284-02	Water	16-Jan-25 16:25	17-Jan-25 11:49

01/28/25 - Client changed the sample IDs (see COC). This is the revised report and will replace the one sent on 01/21/25.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:27
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PH 05

H250284-01 (Water)

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

Inorganic Compounds

Chloride*	4050		4.00	mg/L	1	5012108	AC	21-Jan-25	4500-Cl-B	
TDS*	12300		5.00	mg/L	1	5011901	AC	20-Jan-25	160.1	

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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:27
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

PH 03

H250284-02 (Water)

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

Inorganic Compounds

Chloride*	8700		4.00	mg/L	1	5012108	AC	21-Jan-25	4500-CI-B	
TDS*	20000		5.00	mg/L	1	5011901	AC	20-Jan-25	160.1	

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: CYPRESS FEDERAL 33-1 Project Number: 03B1417173 Project Manager: HADLIE GREEN Fax To:	Reported: 28-Jan-25 14:27
--------------------------------------------------------	---------------------------------------------------------------------------------------------------------	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
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Batch 5011901 - Filtration

Blank (5011901-BLK1) Prepared: 19-Jan-25 Analyzed: 20-Jan-25

TDS	ND	5.00	mg/L							
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LCS (5011901-BS1) Prepared: 19-Jan-25 Analyzed: 20-Jan-25

TDS	802		mg/L	1000		80.2	80-120			
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Duplicate (5011901-DUP1) Source: H250265-01 Prepared: 19-Jan-25 Analyzed: 20-Jan-25

TDS	1010	5.00	mg/L		1050			4.09	20	
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Batch 5012108 - General Prep - Wet Chem

Blank (5012108-BLK1) Prepared & Analyzed: 21-Jan-25

Chloride	ND	4.00	mg/L							
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LCS (5012108-BS1) Prepared & Analyzed: 21-Jan-25

Chloride	112	4.00	mg/L	100		112	80-120			
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LCS Dup (5012108-BSD1) Prepared & Analyzed: 21-Jan-25

Chloride	112	4.00	mg/L	100		112	80-120	0.00	20	
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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2328 FAX (575) 393-2478

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

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

Phone #: 432-557-8895 Email: hgreen@ensolum.com

Project #: Project Owner:

Project Name: Cypress Federal 33-1

Project Location:

Sampler Name: Shane Diller

P.O. #: Company: OXY

Attn: Address: City: State: Zip: Phone #: Email:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.	DATE	TIME	ANALYSIS
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
HAS0384	CP-21PHOS	61	X	X							1-17-25	9:30	TDS	
	CP-41PHOS	61	X								1-16-25	16:25	Chlorides	

FOR LAB USE ONLY

Relinquished By: [Signature] Date: 1-17-25 Time: 1:49

Received By: [Signature] Date: 1-17-25 Time: 1:49

Delivered By: (Circle One) Observed Temp. °C: 89.0 Corrected Temp. °C: 83.0

Sampler - UPS - Bus - Other: Sample Condition Cool Intact No Yes

Checked By: [Signature]

Remarks: PAYKEY/AFENONAFE CUSTOMER REQUESTED TDS CHANGES TO 1/17/25

Transmittance Time: Standard Observed Temp. °C: 89.0 Corrected Temp. °C: 83.0

Correction Factor: 0.00

Verbal Result: Yes No Add'l Phone #:

All Results are emailed. Please provide Email address: klowery@ensolum.com / Bjenning@ensolum.com

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

FORM-006 R 3.2 10/07/21



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

January 24, 2025

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

RE: CYPRESS FEDERAL 33-1/CEDAR CANYON 16 STATE 8H

Enclosed are the results of analyses for samples received by the laboratory on 01/23/25 14:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 12 0.5' (H250402-01)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 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	48.0	16.0	01/24/2025	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 13 0.5' (H250402-02)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 118 % 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	01/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 14 0.5' (H250402-03)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	01/24/2025	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 85.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 15 0.5' (H250402-04)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 83.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 16 0.5' (H250402-05)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 92.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 17 0.5' (H250402-06)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 83.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 18 0.5' (H250402-07)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 124 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 87.1 % 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
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 19 0.5' (H250402-08)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 127 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 85.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 20 0.5' (H250402-09)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 90.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 21 0.5' (H250402-10)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 125 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 87.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 84.6 % 49.1-148

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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 22 0.5' (H250402-11)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 122 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	01/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 91.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 23 0.5' (H250402-12)

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	01/23/2025	ND	2.18	109	2.00	0.411		
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30		
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36		
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00		
Total BTEX	<0.300	0.300	01/23/2025	ND						

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619		
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899		
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND						

Surrogate: 1-Chlorooctane 84.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 80.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 24 0.5' (H250402-13)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 123 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.7 % 49.1-148

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Analytical Results For:

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

Received:	01/23/2025	Sampling Date:	01/22/2025
Reported:	01/24/2025	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1/CEDAR CANYON	Sampling Condition:	Cool & Intact
Project Number:	03B1417173/03B1417192	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SS 25 0.5' (H250402-14)

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	01/23/2025	ND	2.18	109	2.00	0.411	
Toluene*	<0.050	0.050	01/23/2025	ND	2.21	111	2.00	1.30	
Ethylbenzene*	<0.050	0.050	01/23/2025	ND	2.25	112	2.00	1.36	
Total Xylenes*	<0.150	0.150	01/23/2025	ND	6.65	111	6.00	3.00	
Total BTEX	<0.300	0.300	01/23/2025	ND					

Surrogate: 4-Bromofluorobenzene (PID) 121 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/24/2025	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/23/2025	ND	213	106	200	0.619	
DRO >C10-C28*	<10.0	10.0	01/23/2025	ND	210	105	200	0.899	
EXT DRO >C28-C36	<10.0	10.0	01/23/2025	ND					

Surrogate: 1-Chlorooctane 78.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 75.4 % 49.1-148

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Notes and Definitions

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC
Project Manager: Hadlie Green
Address: 601 N. Marientfield St. STE 400
City: Midland **State:** TX **Zip:** 79701
Phone #: 432-557-8895 **Fax #:** _____
Project #: 0881417178 | 0881417192
Project Name: Cypress Fed 38-1 cedore canyon 16 state 8H
Project Location: _____
Sampler Name: Oluade Adesimto
FOR LAB USE ONLY
Lab I.D.: _____
Sample I.D.: _____
Sample Depth (feet): _____
(G)RAB OR (C)OMP: _____
CONTAINERS: _____
MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER: _____
PRESERV: ACID/BASE: _____, ICE / COOL: _____, OTHER: _____
SAMPLING DATE: _____ **TIME:** _____
Phone #: 575-390-2828 **Fax #:** _____

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV	SAMPLING DATE	TIME	BTX 8021	TPH 8015	Chloride 4500
HS2402	1	3512	0.5'	1	X		1/22/25	09:35	X	X	X
	2	3513	0.5'	1	X		1/22/25	09:37	X	X	X
	3	3514	0.5'	1	X		1/22/25	09:40	X	X	X
	4	3515	0.5'	1	X		1/22/25	09:53	X	X	X
	5	3516	0.5'	1	X		1/22/25	10:02	X	X	X
	6	3517	0.5'	1	X		1/22/25	10:12	X	X	X
	7	3518	0.5'	1	X		1/22/25	10:17	X	X	X
	8	3519	0.5'	1	X		1/22/25	12:40	X	X	X
	9	3520	0.5'	1	X		1/22/25	10:04	X	X	X
	10	3521	0.5'	1	X		1/22/25	10:04	X	X	X

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Relinquished By: Oluade Adesimto
Date: 05/05
Time: 11:25
Received By: [Signature]
Date: 1/20
Time: _____
Observed Temp. °C: 1.3
Corrected Temp. °C: 0.6
Sample Condition: Cool Intact Yes No
Checked By: [Signature] (Initials)
Turnaround Time: #140 Standard Rush 24 hrs
Thermometer ID #: N3
Correction Factor: 0.5°C
Bacteria (only) Cool Intact: Yes No
Sample Condition Observed Temp. °C: _____
Corrected Temp. °C: _____

Delivered By: (Circle One) UPS Bus Other: _____
Remarks: All Results are emailed. Please provide Email address: Blennings@ensolum.com
 Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabs/nm.com



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Ensolum, LLC	P.O. #:
Project Manager: Hadlie Green	Company: Oxy USA, Inc.
Address: 601 N. Marientfield St. STE 400	Attn: Wade Dittrich
City: Midland	State: TX
Phone #: 432-557-8895	Zip: 79701
Project #: 0581417173 0981417192	Address:
Project Name: Cypress Fed 33-1 Cedar Canyon 16 State 8H	City:
Project Location:	State: Zip:
Sampler Name: Oluvala Adarinto	Phone #: 575-390-2828
	Fax #:

Lab I.D.	Sample I.D.	Sample Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
HS0402	5522	0.5'	G	1	X							1/29/25	10:28	BTEX 8021
	5523	0.5'	G	1	X							1/29/25	10:30	TPH 8015
	5524	0.5'	G	1	X							1/29/25	12:51	Chloride 4500
	5525	0.5'	G	1	X							1/29/25	10:37	

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Relinquished By: *Oluvala Adarinto* Date: 1/23/25
 Received By: *Jessica Adarinto* Date: 1/23/25
 Relinquished By: _____ Date: _____
 Received By: _____ Date: _____

Delivered By: (Circle One) UPS Bus Other: _____
 Observed Temp. °C: 1.2
 Corrected Temp. °C: 0.6
 Sample Condition: Intact Cool Yes No
 CHECKED BY: *JES*
 Turnaround Time: #140 Standard Rush
 Thermometer ID: #13
 Correction Factor: -0.35C
 Bacteria (only) Cool Intact Yes No
 Sample Condition Observed Temp. °C
 Corrected Temp. °C

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



APPENDIX E

References Cited

References Cited

Houston, N.A., Thomas, J.V., Ging, P.B., Teeple, A.P., Pedraza, D.E., and Wallace, D.S., 2019, Pecos River Basin salinity assessment, Sant Rosa Lake, New Mexico, to the confluence of the Pecos River and the Rio Grande, Texas, 2015: U.S. Geological Survey Scientific Investigations Report 2019-5071, 75 p., <https://doi.org/10.3133/sir20195071>

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

General Information
Phone: (505) 629-6116

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

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

QUESTIONS

Action 427273

QUESTIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2231458632
Incident Name	NAPP2231458632 CYPRESS FEDERAL 33-1 @ 30-015-41596
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-41596] CEDAR CANYON 16 STATE #008H

Location of Release Source	
<i>Please answer all the questions in this group.</i>	
Site Name	CYPRESS FEDERAL 33-1
Date Release Discovered	11/07/2022
Surface Owner	State

Incident Details	
<i>Please answer all the questions in this group.</i>	
Incident Type	Produced Water Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No

Nature and Volume of Release	
<i>Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.</i>	
Crude Oil Released (bbls) Details	Cause: Equipment Failure Dump Valve Crude Oil Released: 10 BBL Recovered: 8 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Dump Valve Produced Water Released: 150 BBL Recovered: 90 BBL Lost: 60 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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**State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505**

QUESTIONS, Page 2

Action 427273

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	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: 01/31/2025
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QUESTIONS, Page 3

Action 427273

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1000 (ft.) and ½ (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Zero feet, overlying, or within area
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
<i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	97600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	29500
GRO+DRO (EPA SW-846 Method 8015M)	21100
BTEX (EPA SW-846 Method 8021B or 8260B)	0.4
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	05/02/2024
On what date will (or did) the final sampling or liner inspection occur	01/22/2025
On what date will (or was) the remediation complete(d)	01/22/2025
What is the estimated surface area (in square feet) that will be reclaimed	34000
What is the estimated volume (in cubic yards) that will be reclaimed	7000
What is the estimated surface area (in square feet) that will be remediated	34000
What is the estimated volume (in cubic yards) that will be remediated	7000

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 427273

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:

(Select all answers below that apply.)

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/31/2025
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The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 427273

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 427273

QUESTIONS (continued)

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	419112
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	01/17/2025
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	34067

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 427273

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 427273
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
crystal.walker	Approved with Conditions of Approval. Variance request for 5-point confirmation soil samples representing every 400 sq ft of the floor and every 200 sq ft of the sidewalls is approved. Variance to utilize a Site-Specific Closure Criteria for chloride of 20,000 mg/kg is amended to 10,000 mg/kg with the understanding that during remediation if this threshold is a problem the operator/contractor will contact the reviewer to discuss and possibly amend the variance approval. The variance request to complete the excavation and soil sampling activities within 180 days of the date of approval of the Work Plan is approved on 2/6/2025, resulting in the remediation activities needing to be complete by 08/05/2025 and remediation closure report to be submitted by 9/5/2025.	2/6/2025