# **E N S O L U M**

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.

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 fo 40 feet bgs. Groundwater was encountered at 18 feet bgs and had a chloride concentration of 5,510 lmg/L and a total dissolve 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.

All delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach<sup>®</sup> chloride QuanTab<sup>®</sup> 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.

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 preexisting 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

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

cc: Wade Dittrich, Oxy

Beaux Jennings Associate Principal

Appendices:

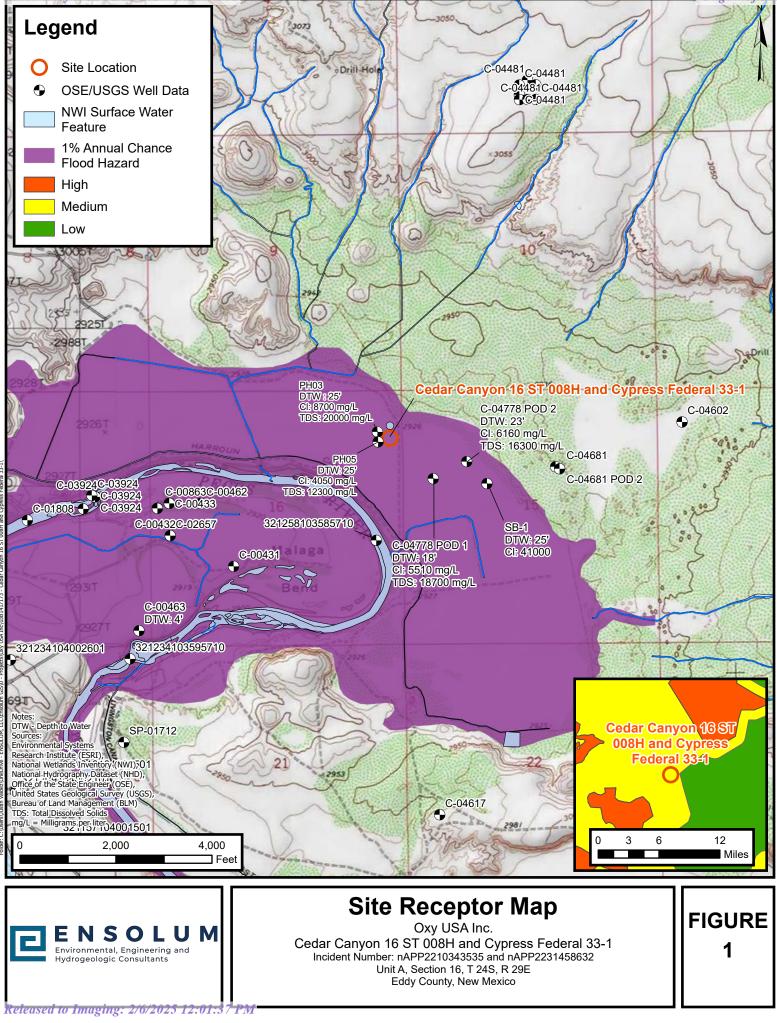
- Figure 1 Site Receptor Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Table 2
   Groundwater Sample Analytical Results
- Appendix A Referenced Well Records
- Appendix B Lithologic Soil Sampling Logs
- Appendix C Photographic Log
- Appendix D Laboratory Analytical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

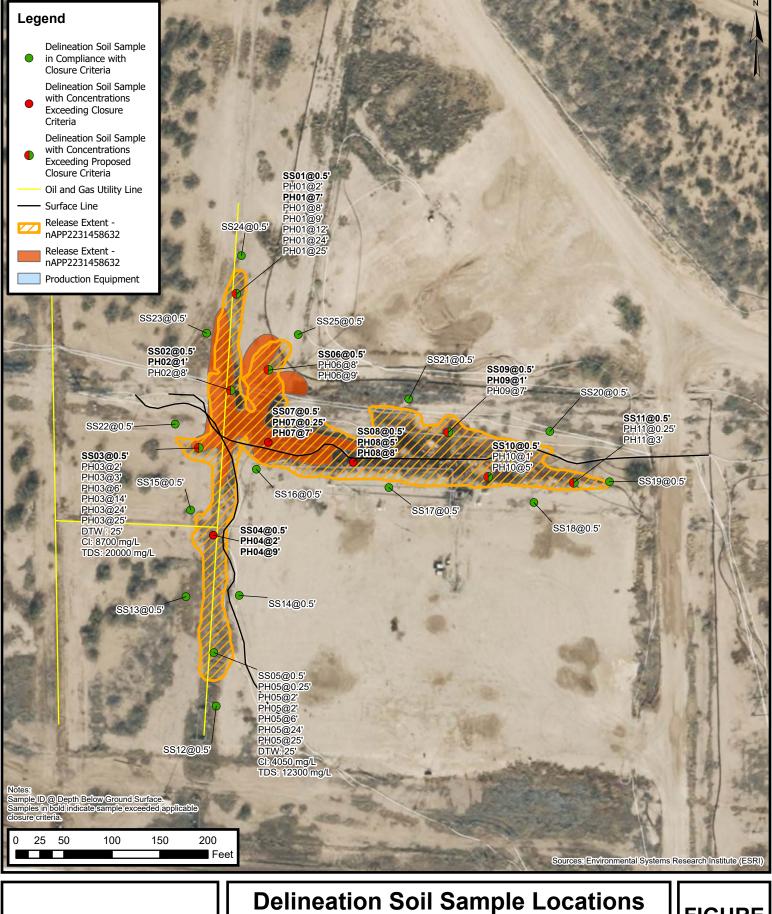


**FIGURES** 

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Page 7 of 171





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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

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# E N S O L U M

						TABLE 1						
					SOIL SAMPLE	ANALYTIC	AL RESULTS					
	Cedar Canyon 16 ST 008H and Cypress Federal 33-1											
	Oxy USA Inc. Eddy County, New Mexico											
						ounty, New N roject No. 03						
					Ensorant							
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 C₀-C₁₀ (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH Total (GRO+DRO+MRO) C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
	l Conservation D Soils Impacted b		10	NE	NE	NE	50	NE	NE	NE	100	600
					Delineation Soi	I Sample Anal	ytical Results				11	
SS01	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
PH01	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	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
PH02	08/06/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	378	213	591	9,760
FTIOZ	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	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
PH03	01/16/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,800
FII03	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	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
PH04	08/07/2024	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	28,400
11104	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	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
PH05	01/17/2025	2	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FTIUJ	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

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# E N S O L U M

						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											
					Ensolutin		5141110					
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 C₀-C₁₀ (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH Total (GRO+DRO+MRO) C <sub>6</sub> -C <sub>36</sub> (mg/kg)	Chloride (mg/kg)
	l Conservation D Soils Impacted b		10	NE	NE	NE	50	NE	NE	NE	100	600
SS06	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	216	88.1	304	736
PH06	08/06/2024	8	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	4,720
11100	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	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
PH07	08/07/2024	0.25	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	2,210	944	3,154	4,400
PHU/	08/07/2024	7	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	737	332	1,069	22,800
SS08	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
PH08	08/07/2024	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	375	225	600	18,000
FIUO	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	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
PH09	08/08/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	22,000
FH09	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	05/02/2024	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	374	162	536	17,200
PH10	08/08/2024	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,720
PHIO	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	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
PH11	01/15/2025	5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	2,880
PHII	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

# E N S O L U M

	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 <sub>6</sub> -C <sub>10</sub> (mg/kg)	TPH DRO >C <sub>10</sub> -C <sub>28</sub> (mg/kg)	TPH MRO >C <sub>28</sub> -C <sub>36</sub> (mg/kg)	TPH Total (GRO+DRO+MRO) C <sub>6</sub> -C <sub>36</sub> (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

## ENSOLUM

			G		ER SAMPL on 16 ST 008F Oxy U Eddy County	ELE 2 E ANALYTI I and Cypress SA, Inc. 7, New Mexico t No. 03B1417 <sup>7</sup>	Federal 33-1	LTS				
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 Comission 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

	OSE POD NO	). (WELL N	IO.)	··	WELL TAG ID NO			OSE FILE NO	S).			
NO	SB-1	(., 1997 1			THELE INCID NO							
OCATI	WELL OWN OXY Pern		S)		J			PHONE (OPTI	ONAL)			
WELL L	well own 1017 W. S		NG ADDRESS Rd.	··· .				CITY Hobbs		state NM	88240	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIC (FROM GI		D	EGREES 32 103	MINUTES 13		89 N		REQUIRED: ONE TEN	TH OF A S	ECOND	
NEI		L	ONGITUDE		58		.76 W		-			
1. GE	DESCRIPTION 1		ING WELL LOCATION TO	O STREET ADDI	RESS AND COMMON	I LANDN	larks – pls	S (SECTION, TC	WNSHJIP, RANGE) WH	ERE AVA	LABLE	
	LICENSE NO		NAME OF LICENSEI	DRILLER	John W. White					rilling Co	ompany, Inc.	
	DRILLING S 10/10/		DRILLING ENDED 10/10/2018	DEPTH WATER FIRS	st encou Dry	NTERED (FT)						
Z	COMPLETE	COMPLETED WELL IS: ARTESIAN I DRY HOLE SHALLOW (UNCONFINED)								LL (FT)		
UII0	DRILLING F	LUID:	🖌 AIR	MUD	ADDITIV	ES – SPE	CIFY:		· · · ·			
RMA	DRILLING M	ETHOD:	✓ ROTARY	HAMMEI	R 🗌 CABLE 1	TOOL	OTHE:	R – SPECIFY:				
INFO	DEPTH	(feet bgl)	BORE HOLE	CASING	MATERIAL ANI	D/OR		SING	CASING	CASI	NG WALL	SLOT
2. DRILLING & CASING INFORMATION	FROM	то	DIAM (inches)	DIAM GRADE CONNE					INSIDE DIAM. (inches)	THI	CKNESS nches)	SIZE (inches)
& C												
EING												
DRIL												
2. I												
					· · ·							
			•									
	DEPTH	(feet bgl)	Dona nozz		ST ANNULAR SI				AMOUNT		METHO	
UAL	FROM	то	DIAM. (inches)		VEL PACK SIZE				(cubic feet)		PLACEN	
VTEF	0	25.0	6.0	Туре	e 2 Portland Cemt.	w/5% E	ent. quick g	gel mix	4.90		Pump Mix w	/Tremmie
ANNULAR MATERIAL												
ULA												
ANN												
щ												
EOD										& LOC (	Varia- 06/2	0/17)
	<u>. OSE INTER</u> E NO.	UNAL US	E		POD NO	).		TRN	0 WELL RECORD . NO.	<u>a LUG (</u>	version 00/3	0/1/)
	ATION	-						WELL TAG I	D NO.		PAGE	1 OF 2

•

	DEPTH (	feet bgl)						ESTIM	ATED			
	FROM	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - WATER INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units) (YES / NO)								
	0.0	5.0	5.0	5.0 Dark brown clay/clayey sand Y 🗸								
	5.0	25.0	20.0	Brown/reddish brown clay	ey sand		Y V	1				
							Y N	1				
							Y N	1				
							Y N	1				
ILL							Y N	1				
4. HYDROGEOLOGIC LOG OF WELL							Y N	1				
G 0F							Y N	1				
ΓO					Y N	1						
GIC							Y N	1				
OLO							Y N					
OGE							Y N					
DRO							Y N					
(H)							Y N					
ч							Y N					
					Y N							
					Y N							
						Y N						
							Y N					
							Y N					
							Y N					
				OF WATER-BEARING STRATA:			AL ESTIMATE LL YIELD (gpn		iΩ			
	PUMF	<b>у</b> []А	IR LIFT	BAILER OTHER – SPECIFY:			CE TIBED (GPI		U			
NO	WELL TEST	TEST T STAR	RESULTS - ATTA T TIME, END TIM	CH A COPY OF DATA COLLECTED DURING IE, AND A TABLE SHOWING DISCHARGE A	WELL TEST	TING, INCLUDI DWN OVER TH	NG DISCHARC E TESTING PE	E METHOD, RIOD.				
TEST; RIG SUPERVISION	MISCELLAY	NEOUS INF	FORMATION:									
UPE												
uG S												
T; R												
	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERV	ISION OF W	ELL CONSTRU	CTION OTHER	THAN LICE	NSEE:			
Ś.	William B. A	Atkins										
	THEINDE		IERERV CEDTIE	ES THAT, TO THE BEST OF HIS OR HER KNO				IS A TRUE				
ATURE	CORRECT R	ECORD O	F THE ABOVE DI	ESTHAT, TO THE BEST OF HIS OR HER KNO ESCRIBED HOLE AND THAT HE OR SHE WII DAYS AFTER COMPLETION OF WELL DRIJ	L FILE THIS							
6. SIGNATURE		$\leq$		<b>.</b>			10/22/2018	3				
-		SIGNAT	URE OF DRILLER	C / PRINT SIGNEE NAME			DAT	E				
FOR	R OSE INTERN	TAT LIGE			ш <i>г</i>	R-20 WELL RE		Version 06/20	V/2017			
	E NO.	LILL UOD		POD NO.		R-20 WELL REV N NO.		v 6151011 00/30	72017)			
LOC	CATION			· 1	WELL TA	G ID NO		PAGE 2	2 OF 2			



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



#### 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		Analyze	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 whatscever 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 whose 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



## **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 SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent'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 whatscever 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 whose of use, or loss of profits incurred by client, its subsidiaries, affiliates or successor 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.

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

# ARDINAL LABORATORIES

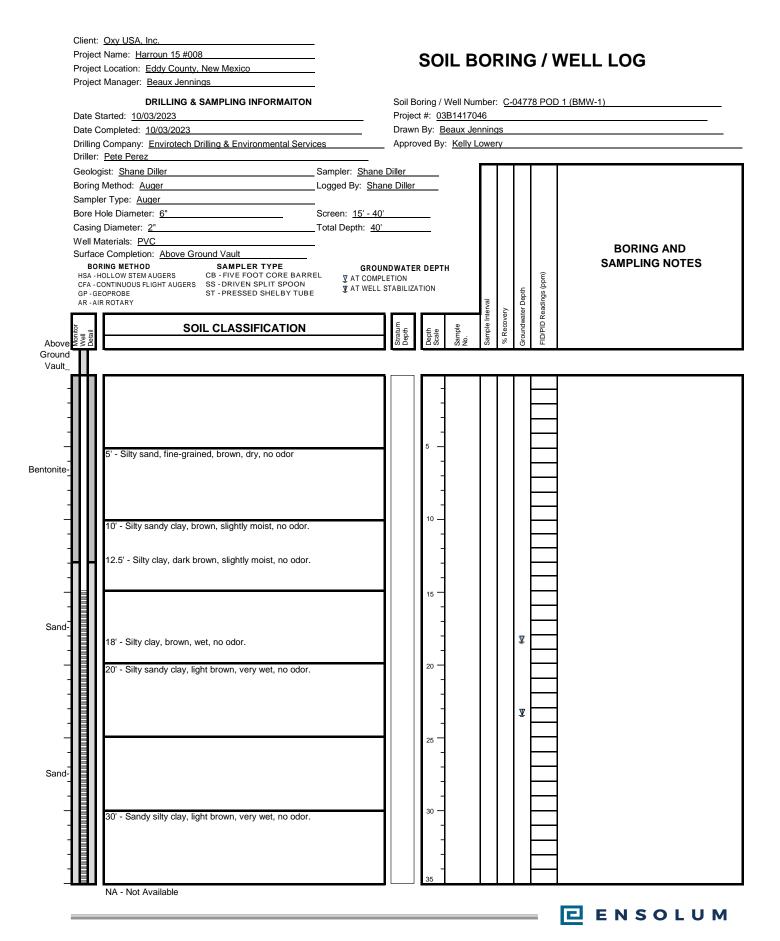
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

					2/		
ſ	San	De	Reli	analyse service affiliate: Relii	PLEAS		
+	nple	live	nqu	sors	NO		

Received by OCD: 1/31/2025 4:41:47 PM

15	101 East Mariand, Hobbs, NM 88240	" 6					
Company Name:	BBC International, Inc.		BILLTO			ANALYSIS REQUEST	
Project Manager:	Cliff Brunson	7	P.O. #:		_		
Address: P.O. B	Box 805		Company: OK4				
city: Hobbs	State: NM	Zip: 88241	2	(			
Phone #: 575-397-6388	Fax #:	575-397-0397	Address:				
Project #:	Project Owner: Oxy		City:				
ame:	Harroun 15 #008 (8/29/18)		State: Zip:				
Project Location:	Eddy County, NM	7	#				
Sampler Name:	Jeff Ornelas	-	Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	G			
l ah I D	Sample I D	WATER ATER					
1802967		# CONTA GROUND WASTEW SOIL OIL SLUDGE	OTHER : ACID/BAS ICE / COC OTHER : DATE	TIME C1			
V /	Water 1		10/10/18	3:50 pm 🖌			
	A MAR HON						
PLEASE NOTE: Liability and D:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive ramedy for any claim artising whether based in contract or tort, shall be limited to the amount paid by the client for the	y claim arising whether based in contract or	lort, shall be limited to the amount paid b	y the client for the			
analyses. All claims including those for negligence and any c service. In no event shall Cardinal be liable for incidental or c affiliates or successors arising out of or related to the perform	anayses. All claims including incise for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of fortis incurred by utilent, its subsidiaries, affiliates or successors arking out of or related to the performance of services hereunder by Cardinal, negarafessed whether such claim is based upon any of the above stated reasons or otherwise.	se whatsoever shall be deemed waived unless made in writing and re antal damages, including without limitation, business interruptions, los services hereunder by Cardinal, regardlessof whether such claim is t	d received by Cardinal within 30 days after c loss of use, or loss of profits incurred by clie is based upon any of the above stated reasc	completion of the applicabl ant, its subsidiaries, ons or otherwise.	e		
Relinquished By:	Pite: 10/18	Received By:		Ħ		No Add'l Phone #:	
-	My S TITE	H. K		Fax Result: REMARKS:			
Relinquished By:	Lo-16-18	Received/By:	Math				
Delivered By: (Circle One)	Circle One)	Sample Condition	CH				
Sampler - UPS -	Bus - Other: - 1.0 c	HOJ Pres Pres	10'				
† Cardinal ca	Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476	fax written changes to 50	15-393-2476				

Page 4 of 4



### Released to Imaging: 2/6/2025 12:01:37 PM

Project Location: <u>Eddy County, New M</u> Project Manager: <u>Beaux Jennings</u>		SUIL I	JUKII		ELL LOG
	ING INFORMAITON	-		)4778 POD 1 (E	BMW-1)
Date Started: <u>10/03/2023</u>		\Project #: <u>03B141</u>			
Date Completed: <u>10/03/2023</u>	Environmental Services	Drawn By: <u>Beaux</u>			
Drilling Company: <u>Envirotech Drilling &amp;</u> Driller: <u>Pete Perez</u>		,	Lowery		
Geologist: <u>Shane Diller</u>					
Boring Method: Auger	Logged By: <u>St</u>	nane Diller			
Sampler Type: Auger					
Bore Hole Diameter: 6"					
	Total Depth: 4	.0'			
Well Materials: <u>PVC</u> Surface Completion: <u>Above Ground V</u>					BORING AND
		UNDWATER DEPTH			SAMPLING NOTES
HSA - HOLLOW STEM AUGERS CB - F CFA - CONTINUOUS FLIGHT AUGERS SS - D	IVE FOOT CORE BARREL TAT COM		erval y	ater Depth Readings (ppm)	
Monitor Notestial Deskil	ASSIFICATION	Stratum Depth Scale Sample No.	Sample Interval % Recovery	Groundwater Depth FID/PID Readings (	
40' - Total Depth					

# E N S O L U M

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## Released to Imaging: 2/6/2025 12:01:37 PM

	Client:	Oxy USA, Inc.									
	Project	t Name: Harroun 15 #008			e۵			ווכ		2/1	WELL LOG
	Project	t Location: Eddy County, New Mexico			30				NC.	. , ,	
	Project	t Manager: Beaux Jennings									
		DRILLING & SAMPLING INFORMAITON		Soil B	Borina /	Well Nu	ımbei	r: C-	047	78 PO	D 2 (BMW-2)
	Date S	Started: 10/03/2023			•	3B1417(					
		Completed: 10/03/2023		-		Beaux Je		igs			
		Company: Envirotech Drilling & Environmental Services				/: Kelly					
	Driller:	Pete Perez			-						
	Geolog	gist: <u>Shane Diller</u> Sampl	ler: <u>Shane</u>	Diller							
	Boring	Method: Auger Logge	d By: <u>Shan</u>	e Diller							
	Sample	er Type: Auger									
	Bore H	lole Diameter: 6" Screen	n: <u>15' - 40'</u>								
	Casing	Diameter: <u>2"</u> Total I	Depth: <u>40'</u>								
		laterials: PVC									BORING AND
		e Completion: Above Ground Vault									SAMPLING NOTES
		RING METHODSAMPLER TYPEHOLLOW STEM AUGERSCB - FIVE FOOT CORE BARREL	GROUN ▼ AT COMPL	IDWATER	R DEPT	Н				Ê	
		CONTINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON	¥ AT WELL S		TION				÷	dd) s	
		EOPROBE ST - PRESSED SHELBY TUBE R ROTARY					val		Dep	dings	
		r					Sample Interval	% Recovery	Groundwater Depth	FID/PID Readings (ppm)	
	ail ail	SOIL CLASSIFICATION		Stratum Depth	ale	Sample No.	nple	Reco	vpund	0IPID	
Above	Mor We Det			Del	Depth Scale	Sar No.	Sar	%	Gro	ПЦ	
Ground											
Vault_						1					
_					-						
_					_						
_					_						
_					_						
_					5 —						
_		5' - Silty sand, fine-grained, brown, dry, no odor.									
Bentonite-											
					10 —						
		10.5' - Silty sand, very fine-grained, clay nodules, pinkish gr	ay, dry,		10 -						
		no odor.									
_											
_		14' - Silty sandy clay, gray, slightly moist, no odor.									
_					_						
					15 —						
-					_						
Sand-					-						
-		18' - Sand, fine-grained, reddish brown, slightly moist, no oc	dor.		-						
-					-						
_		20.5' - Sandy clay, reddish brown, wet, no odor.			20 -						
-					-				⊻		
-					-						
-					-				⊻		
-					-						
_					25 —						
-					-						
_ Sand-					-		1				1
					1 -						1
-					1 -						1
_		30' - Clayey sand, reddish brown, wet, no odor.			30 —		1				1
-					-		1				1
-					-						<b>/</b>
-					-						4
-					-						4
_					35						<u> </u>
		NA - Not Available									

# ENSOLUM

•

	0xy USA, Inc. Iame: <u>Harroun 15 #008</u>			2011		וח		<b>\ \</b> \/F	
-	ocation: Eddy County, New Mexico			SOIL	BO	IN	NC	5 / VVE	ELL LOG
	lanager: <u>Beaux Jennings</u>								
	DRILLING & SAMPLING INFORMAITON		Soil Br	orina / Well	Numbe	er C	-0477	78 POD 2 /F	3MW-2)
Date Star	rted: 10/03/2023			t #: <u>03B14</u>			-0-11		<u>SWW-2</u>
	npleted: <u>10/03/2023</u>								
	ompany: Envirotech Drilling & Environmental Servic			ved By: Ke					
Driller: P	ete Perez								
Geologist	t: Shane Diller								
-		Logged By: Shane	Diller						
	Type: Auger								
		Screen: <u>15' - 40'</u>							
-		Total Depth: 40'							
	erials: <u>PVC</u>								BORING AND
	Completion: Above Ground Vault IG METHOD SAMPLER TYPE	GROUND		DEDTU					SAMPLING NOTES
HSA - HOL	LOW STEM AUGERS CB - FIVE FOOT CORE BARRE	EL VAT COMPLET		DEPTH				(m	
CFA - CON GP - GEOP	ITINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON PROBE ST - PRESSED SHELBY TUBE	WAT WELL ST		TION			pth	fd) sť	
AR - AIR R					Iva	~	er De	Readings (ppm)	
L			F	a a	Vo. Sample Interval	% Recovery	Groundwater Depth	D Re	
Monito Well Detail	SOIL CLASSIFICATION		Stratum Depth	Depth Scale Sample	o. ampl	6 Re	roun	FID/PID I	
≥≤∩		] [	00	പറ റ	z o	0.	U	L	
				35					
4	10' - Total Depth			40 —					
							1		
							1		
						1	1		
						1	1		
							1		
							1		
							1		
				• •		1	1		
				-					

# E N S O L U M

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## Released to Imaging: 2/6/2025 12:01:37 PM

Received by OCD: 1/31/2025 4:41:47 PM



**Environment Testing** 

# **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**

AMER

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies

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

# **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

2

# **Definitions/Glossary**

Client: Ensolum
Project/Site: HARROUN #15

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

## Qualifiers

Qualifiers		3
HPLC/IC		
Qualifier	Qualifier Description Indicates the analyte was analyzed for but not detected.	4
•		5
General Che Qualifier		J
	Qualifier Description Indicates the analyte was analyzed for but not detected.	6
Glossary	These commonly used abbraviations may as may ask he association this way at	7
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	ŏ
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	9
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	

**Eurofins Carlsbad** 

**Released to Imaging: 2/6/2025 12:01:37 PM** 

## **Case Narrative**

## 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.

Matrix: Water

## **Client Sample Results**

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

Lab Sample ID: 890-5593-1

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

Project/Site: HARROUN #15

Client: Ensolum

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							Lab Samp	ole ID: 890-5	593-2
Date Collected: 11/08/23 12:50								Matrix	: Water
Date Received: 11/08/23 15:10									
_ Method: EPA 300.0 - Anions, Ion	1 Chroma	tography							
Analyte		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									
General Chemistry Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

Project/Site: HARROUN #15

Client: Ensolum

## **QC Sample Results**

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

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MR 990 660	85/3										ion	Sam		othod	Blank
Lab Sample ID: MB 880-669 Matrix: Water	00/0									CI	ien	San	nple ID: M Prep Ty		
Analysis Batch: 66985													Flepily	pe. 10	
Analysis Batch. 00905		мв	MB												
Analyte	D		Qualifier		RL		MDL	Unit		D	Dror	bared	Analy	boz	Dil Fac
Chloride		).346			0.500		0.346				Fieh	areu	<b>Analy</b> 		DIFA
	<0	.540	0		0.500	0	0.540	mg/∟					11/14/23	15.21	
Lab Sample ID: LCS 880-669	985/4								Cli	ent Sa	amr	ole ID	: Lab Cor	ntrol S	ample
Matrix: Water									•				Prep Ty		
Analysis Batch: 66985														po. 10	
Analysis Daten. 00000				Spike		LCS	LCS						%Rec		
Analyte				Added		Result		ifier	Unit	D	) %	Rec	Limits		
Chloride				25.0		24.86	Quai		mg/L			99	90 - 110		
Chionde				25.0		24.00			mg/∟			33	30 - 110		
Lab Sample ID: LCSD 880-6	6985/5							С	lient S	ample	e IC	) <sup>.</sup> I ah	<b>Control</b>	Sampl	e Dur
Matrix: Water	0000,0									ampi			Prep Ty		
Analysis Batch: 66985													i i op i y	pc. 10	
Analysis Datell. 00305				Spike		LCSD	1 ( )	h					%Rec		RPI
Analyte				Added		Result			Unit	D	<b>n</b> 0/	Rec	Limits	RPD	Limi
Chloride				25.0		24.88	Quai			Ľ		100	90 - 110		2
Chionde				25.0		24.00			mg/L			100	90-110	0	20
Lab Sample ID: 880-35729-A	1.1 MS									6	lio	nt Sa	mple ID:	Matrix	Snike
Matrix: Water													Prep Ty		
Analysis Batch: 66985													перту	pc. 10	
Analysis Batch. 00905	Sample	Sam	nlo	Spike		MS	MS						%Rec		
Analyte	Result		•	Added		Result		ifior	Unit	D	<b>n</b> 0/	Rec	Limits		
Chloride	249	Qua		250		494.3	Quai		mg/L			98	90 - 110		
-	243			250		434.5			mg/∟			30	30 - 110		
Lab Sample ID: 880-35729-A	1 MSD								Client	Sam	nle	א ∙סו	latrix Spi	ke Dur	olicate
Matrix: Water									<b>U</b>	. oum	<b>P</b> 10		Prep Ty		
Analysis Batch: 66985													i i cp i j	pc. 10	
		~													
-	Sample	Sam	ple	Spike		MSD	MSD						%Rec		RPE
	Sample Result		•	Spike Added		MSD Result	_		Unit	D	) %	Rec	%Rec Limits	RPD	
Analyte	Result		•	Added		Result	_		Unit		<u>%</u>	Rec	Limits	<b>RPD</b>	Limi
Analyte Chloride	Result 249	Qua	lifier	Added 250		-	_		Unit mg/L	D	<u>%</u>	98		<b>RPD</b>	Limi
Analyte Chloride	Result 249	Qua	lifier	Added 250	S)	Result	_			D	<u>%</u>		Limits		Limi
Analyte Chloride Method: SM 2540C - Sol	Result 249 ids, Tota	Qua	lifier	Added 250	S)	Result	_					98	Limits 90 - 110	0	Limi 2
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131	Result 249 ids, Tota	Qua	lifier	Added 250	S)	Result	_					98	Limits 90 - 110	0 ethod	Limi 20
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water	Result 249 ids, Tota	Qua	lifier	Added 250	S)	Result	_					98	Limits 90 - 110	0 ethod	Limi 20
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131	Result 249 ids, Tota	Quai	ssolve	Added 250	<u>S)</u>	Result	_					98	Limits 90 - 110	0 ethod	Limi 20 Blank
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138	Result 249 ids, Tota 138/1	Qua al Di MB	SSOIVE	Added 250		<b>Result</b> 493.7	Qual	ifier		CI	ien	98	Limits 90 - 110	ethod pe: To	Limi 20 Blank tal/NA
Analyte Chloride Alethod: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte	Result 249 ids, Tota 138/1 Re	Qual al Di MB esult	MB Qualifier	Added 250	RL	<b>Result</b> 493.7	Qual	Unit		CI	ien	98	Limits 90 - 110 Prep Ty Analy:	0 lethod pe: To zed	Limi 20 Blani tal/NA Dil Fa
Analyte Chloride Alethod: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte	Result 249 ids, Tota 138/1 Re	Qua al Di MB	MB Qualifier	Added 250		<b>Result</b> 493.7	Qual	Unit		CI	ien	98	Limits 90 - 110	0 lethod pe: To zed	Limi 20 Blank tal/NA Dil Fac
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte Total Dissolved Solids	Result           249           ids, Tota           138/1	Qual al Di MB esult	MB Qualifier	Added 250	RL	<b>Result</b> 493.7	Qual	Unit	mg/L	CI	ien Prep	98 t Sam	Limits 90 - 110 Prep Ty 	0 ethod pe: To zed 09:58	Limi 20 Blani tal/N/ Dil Fa
Analyte Chloride Alethod: SM 2540C - Soli Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-131	Result           249           ids, Tota           138/1	Qual al Di MB esult	MB Qualifier	Added 250	RL	<b>Result</b> 493.7	Qual	Unit	mg/L	CI	ien Prep	98 t Sam	Limits 90 - 110 hple ID: M Prep Ty 	ethod pe: To zed 09:58	Limi 2 Blanl tal/N/ Dil Fa
Analyte Chloride Method: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-137 Matrix: Water	Result           249           ids, Tota           138/1	Qual al Di MB esult	MB Qualifier	Added 250	RL	<b>Result</b> 493.7	Qual	Unit	mg/L	CI	ien Prep	98 t Sam	Limits 90 - 110 Prep Ty 	ethod pe: To zed 09:58	Limi 20 Blank tal/NA Dil Fac
Analyte Chloride Method: SM 2540C - Soli Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-13	Result           249           ids, Tota           138/1	Qual al Di MB esult	MB Qualifier	Added 250 d (TD	RL	<b>Result</b> 493.7	Qual MDL 5.00	Unit	mg/L	CI	ien Prep	98 t Sam	Limits 90 - 110 Prep Ty <u>Analy:</u> 11/15/23 : Lab Cor Prep Ty	ethod pe: To zed 09:58	Limii 20 Blank tal/NA Dil Fac
Analyte Chloride Wethod: SM 2540C - Sol Lab Sample ID: MB 860-131 Matrix: Water Analysis Batch: 131138 Analyte Total Dissolved Solids Lab Sample ID: LCS 860-137 Matrix: Water	Result           249           ids, Tota           138/1	Qual al Di MB esult	MB Qualifier	Added 250	RL	<b>Result</b> 493.7	Qual 5.00	Unit mg/L	mg/L	CI	ient Prep	98 t Sam	Limits 90 - 110 hple ID: M Prep Ty 	ethod pe: To zed 09:58	Dil Fac

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Client: Ensolum Project/Site: HARROUN #15 Page 32 of 171

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

Lab Sample ID: LCSD 860-1 Matrix: Water Analysis Batch: 131138	31138/3				C	Client Sa	ample	ID: Lat	Control S Prep Ty		
-			Spike	LCSD	LCSD				%Rec		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Total Dissolved Solids			1000	1004		mg/L		100	80 - 120	0	10
_ Lab Sample ID: 830-4467-C-	2 DU							Client	Sample II	D: Dup	licate
Matrix: Water									Prep Ty	pe: Tot	al/NA
Analysis Batch: 131138											
-	Sample	Sample		DU	DU						RPD
Analyte	Result	Qualifier		Result	Qualifier	Unit	D			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

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	

## 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	

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

Page 34 of 171

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

Project/Site: HARROUN #15

Client: Ensolum

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL	10 mL	66985	11/14/23 16:24	СН	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

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	300.0		100	10 mL	10 mL	66985	11/14/23 16:35	СН	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

**Eurofins Carlsbad** 

Lab Sample ID: 890-5593-1 **Matrix: Water** Lab Sample ID: 890-5593-2 **Matrix: Water** 8 **Accreditation/Certification Summary** 

Client: Ensolum Project/Site: HARROUN #15

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

## Laboratory: Eurofins Houston

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	
aboratory: Eurofins	s Midland listed below are applicable to this report.			
•		Identification Number	Expiration Date	
e accreditations/certifications	listed below are applicable to this report.	Identification Number T104704400-23-26	Expiration Date 06-30-24	
ne accreditations/certifications	listed below are applicable to this report. Program		· · · · · · · · · · · · · · · · · · ·	
he accreditations/certifications	listed below are applicable to this report. Program		· · · · · · · · · · · · · · · · · · ·	

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

**Eurofins Carlsbad** 

## **Method Summary**

## Client: Ensolum Project/Site: HARROUN #15

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

ethod	Method Description	Protocol	Laboratory	
0.0	Anions, Ion Chromatography	EPA	EET MID	
M 2540C	Solids, Total Dissolved (TDS)	SM	EET HOU	
Protocol R	eferences:			
EPA = U	S Environmental Protection Agency			
SM = "S	tandard Methods For The Examination Of Water And Wastewater"			
-	References:			
	U = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200 D = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440			
				í
				- 2

**Eurofins Carlsbad** 

# **Sample Summary**

Client: Ensolum Project/Site: HARROUN #15 Job ID: 890-5593-1 SDG: Eddy County NM

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

11 12 13

CIA SHILL DUNK CX MILL		or the cost of samples unsumes a varia purchase order non-digit company to Eutrinis Advo, its atilitates and subcontractors, it assigns standard terms or the cost of samples and shaft not assume any reportability for any loases or expenses bouned by the clientif such loases are due to circumstances bey 20 vHI be applied to each project and a charge of 55 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U	890-5593 Chain of Custody			2 611-8-23/250 -	1210 - 61	Sample Identification Matrix Sampled Sampled Depth Comp Cont N	d Temperature: 16.6	Yes No WA Temperature Reading:	Cooler Custody Seals Yes M NA Correction Factor 70. 2 4	Temp Blank: YE NO Wet Lee: Yes No	0 3 RI4 1 70L 4 the lab, If received by 430pm	day Co. N.M.	2381417046	Turn Around	mail djannings (@ ensolur.com	× 74701 Gry, Space ZIP	Gal Maricold #400 inderess	Ensalum 22C Company Name:	Project Manager Beaux, Transis Bill to: life different		Environment Testing M	Chain of Custody
	Received by: (Signature) Date/Time	and conclutions the control previous of the control previous of the control previous of the control previous of the control of	man malo wik se Agisu2, waisrilish U Vizh ≞ AgiTIU Hg∙1631/245,1/7470 /7471						Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Natso + NABIS	H3PO #HP	H <sub>2</sub> SO + H <sub>2</sub> NaOH: Na	Cool: Cool MeOH: Me	None: NO DI Watter H2O	Preservative Codes	Deliverables: EDD ADaPT Other	2	I	Program: UST/PST PRP Brownfields RDC	Work Order Comments	Pane /	Work Order No:	

# Login Sample Receipt Checklist

Client: Ensolum

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

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	

13

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

# List Source: Eurofins Carlsbad

# Login Sample Receipt Checklist

Client: Ensolum

<6mm (1/4").

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

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	True	

13

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

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

13

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

List Source: Eurofins Midland

List Creation: 11/10/23 10:59 AM

# Login Sample Receipt Checklist

Client: Ensolum

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

Cleator. Rounguez, Leticia		
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	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").



APPENDIX B

Lithologic Soil Sampling Logs

								Sample Name: SS01/PH01 Date	e: 5/2/24-1/16/25
			N	C		_ U	КЛ	Site Name: Cedar Canyon 16 ST 008 & Cypr	ess Federal 33-1
				2				Incident Number: nAPP2210343535 & n	APP2231458632
								Job Number: 03B1417173	
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: ND, SD Met	hod: Auger/Geoprobe
	dinates: 32								al Depth: 25'
								PID for chloride and vapor, respectively. n factor included.	Chloride test
Moisture	<u>Content</u> Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descript	ions
	ND	5.2		SS01	0.5	L 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
			ΕΙ	Ν	S	ΟΙ		Μ	Site Name: Cedar Canyon 16 ST 008 8 Incident Number: nAPP221034353	
									Job Number: 03B1417173	5 & IIAFF 2251458052
		LI	THOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: ND, SD	Method: Auger/Geoprobe
Соо	rdinates				.982714				Hole Diameter: 6"	Total Depth: 25'
									PID for chloride and vapor, respect n factor included.	ively. Chloride test
Moisture	Content Chloride	(ppm)	vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Des	criptions
					SS01	L t	<u>    0                                </u>			
D	57	7	0.0			16	16	SP	Sand, very fine grain, red	
М	41	1	0.7			18	18	SP	Sand, very fine grain, red	
М	51	5	1.3			20	20	SP	Sand, fine grain, red	
М	51	5	0.7			22	22	SP	Sand, fine grain, red	
М	51	5	0.0		PH01	24	24	SP	Sand, fine grain, red	
W	78	D	1.7		PH01	25	25	SP	Sand, fine grain, red	
						+	- - - -			
						+ + +	-  -			
							- - -			
						+	- - -			
						+	-			

								Sample Name: SS02/PH02	Date: 5/2/24-8/6/24
		E	N	S	ΟΙ	<b>.</b> U	Μ	Site Name: Cedar Canyon 16 ST 008	
								Incident Number: nAPP2210343	535 & nAPP2231458632
								Job Number: 03B1417173	Mathedy Hand Avenu
Coord	inates: 32			-	SAMPLING			Logged By: Noah Duker Hole Diameter: 6"	Method: Hand Auger Total Depth: 8
					ith HACH Ch	loride Test S	strins and	PID for chloride and vapor, respe	
								n factor included.	envery. enternae test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
	>3561	1.2		SS02	0.5	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 1			
					-	- 12			

								Sample Name: SS03/PH03 Date: 5/2/24-1/16/25
			NI	C		<b>.</b> U	КЛ	Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1
				2				Incident Number: nAPP2210343535 & nAPP2231458632
								Job Number: 03B1417173
		lithol	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: ND, SD Method: Auger/Geoprobe
	inates: 32							Hole Diameter: 6" Total Depth: 25'
			-				•	PID for chloride and vapor, respectively. Chloride test n 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	L 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
м	700	0.6			16	 16	SP	Sand, fine grain, some clay, reddish brown

								Sample Name: SS03/PH03	Date: 5/2/24-1/16/25
		E	N	S	ΟΙ		Μ	Site Name: Cedar Canyon 16 ST 0	08 & Cypress Federal 33-1
								Incident Number: nAPP221034	3535 & nAPP2231458632
								Job Number: 03B1417173	
		LITHOL	OGI	C / SOIL S	SAMPLING	i log		Logged By: ND, SD	Method: Auger/Geoprobe
	inates: 32							Hole Diameter: 6"	Total Depth: 25'
			-					PID for chloride and vapor, resp n factor included.	ectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	Descriptions
м	767	0.5			18	L - - 18	CL	Sandy clay, red	
м	840	0.0			20	20	CL	Sandy clay, red	
М	465	0.9			22	22	CL	Sand, some clay, red	
М	515	0.0		PH03	24	24	SP	Sand, very fine grain, red	
М	840	0.0		PH03	- 25 - - - - - - - - - - - - - - - - - -		SP	Sand, very fine grain, red	

								Sample Name: SS04/PH04	Date: 5/2/24-8/7/24
ll c		F	N	S	ΟΙ	U	Μ	Site Name: Cedar Canyon 16 ST 00	
								Incident Number: nAPP2210343	535 & nAPP2231458632
<u> </u>			001		SAMPLING			Job Number: 03B1417173	Mothod Hand Avera
Coord	linates: 32			-	SAIVIPLINC	100		Logged By: ND Hole Diameter: 6"	Method: Hand Auger Total Depth: 9'
					vith HACH Ch	loride Test S	Strips and	PID for chloride and vapor, respe	
							correction	n factor included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
	>3561	1.2		SS04	0.5	0 0.5	CL	Clay	
	>3561	0.9			-	1	CL	Clav	
	>3561	2.6		PH04	2 _	- - 2 -	CL	Clay	
	>3561	2.3				- - 3	CL	Clav	
	>3561	1.7			-	- - 4	CL	Clay	
	>3561	1.3			-	- - 5 -	CL	Clay	
	>3561	0.9			-	6	CL	Clay	
	>3561	0.8			-	- - 7 - 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
			N	C		U	NЛ	Site Name: Cedar Canyon 16 ST 008 & Cypress Federal 33-1
								Incident Number: nAPP2210343535 & nAPP2231458632
								Job Number: 03B1417173
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: ND, SD Method: Auger/Geoprobe
Coord	inates: 32	2.221861	, -103	.9828				Hole Diameter: 6" Total Depth: 25'
								PID for chloride and vapor, respectively. Chloride test n 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	L 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
М	414.4	0			16	16	SP	Sand, fine grain, light reddish brown
М	515.2	0			18 _	18	SP	Sandy, some clay, brown
М	515.2	0			20	20	SP	Sand, very fine grain, red
М	840	0			22	- 22	SP	Sand, very fine grain, red

1								Sample Name: SS05/PH05	Date: 5/2/24-1/17/25
				C	ΟΙ			Site Name: Cedar Canyon 16 ST 008	
			IN	3				Incident Number: nAPP22103435	
								Job Number: 03B1417173	
		LITHOL	OGI	C / SOIL S	SAMPLING	i LOG		Logged By: ND, SD	Method: Auger/Geoprobe
Coord	nates: 32	2.221861	, -103	.9828				Hole Diameter: 6"	Total Depth: 25'
	Comments: Field screening conducted with HACH Chloride Test Strips performed with 1:4 dilution factor of soil to distilled water. 40% corre								tively. Chloride test
perfor	mea witr	1:4 01101	:10N Ta	actor of sol	i to distilled	water. 40%	correction	n factor included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
М	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
	-			N	C		_ U	NЛ	Site Name: Cedar Canyon 16 ST 0	08 & Cypress Federal 33-1
									Incident Number: nAPP22103435	35 & Napp2231458632
									Job Number: 03B1417173	
			LITHOL	OGI	C / SOIL S	SAMPLING	i log		Logged By: Noah Duker	Method: Hand Auger
			2.222668,						Hole Diameter: 6"	Total Depth: 9'
									PID for chloride and vapor, respect n factor included.	tively. Chloride test
Moisture	Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions
					SS06	1	0			
					0000	-	-			
		487	0.6			-	1	SP	Sand	
							-			
		1635	0.4			-	2	SP	Sand	
		1055	0.4			-	- 2	51	Sand	
						-	-			
		3063	0.3			_	3	SP	Sand	
						_	-			
		2475	0.4			-	4	CL	Sandy Clay	
						-	-			
		3561	0.3			-	5	CL	Clay	
			0.0				-	-		
		2654				-	-			
		2654	0.4			-	6	CL	Clay	
							-			
		2312	0.2			-	7	CL	Clay	
						-	-			
		>3561	0.2		PH06	8	8	CL	Caliche/Clay mix	
		>3201	0.2		PHUO	° _	_	CL		
						-	-			
		3063	0.6		PH06	9	9	CCHE	Caliche	
						-	-			
						-	10			
						-	-			
						-	11			
						-	-			
						-	12			

								Sample Name: SS07/PH07	Date: 5/2/24-8/7/24
	-	F	N	S	ΟΙ		М	Site Name: Cedar Canyon 16 ST	008 & Cypress Federal 33-1
								Incident Number: nAPP2210343	535 & Napp2231458632
								Job Number: 03B1417173	
				-	SAMPLING	6 LOG		Logged By: Noah Duker	Method: Hand Auger
	dinates: 32							Hole Diameter: 6"	Total Depth: 7'
								PID for chloride and vapor, respe n factor included.	ctively. Chloride test
Moisture Contont	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
	>3561	21.2		SS07	0.25	0 	CL	Clay	
	>3561	17.4			-	1	CL	Clav	
	>3561	17.7				2	CL	Clay	
	>3561	13.4				- 3	CL	Clav	
	>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
		E	N	S	ΟΙ		Μ	Site Name: Cedar Canyon 16 ST Incident Number: nAPP2210343	
								Job Number: 03B1417173	555 & HAFF 2251456052
		LITHOL	OGI		SAMPLING	6 LOG		Logged By: Noah Duker	Method: Hand Auger
Coord	dinates: 32			-				Hole Diameter: 6"	Total Depth: 8'
								PID for chloride and vapor, respension factor included.	ectively. Chloride test
Moisture	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic D	escriptions
	2016	2.6		SS08	-	L 0	CL	Clay	
	1880	1.8			-	1	CL	Clav	
	>3561	0.9			-	2	CL	Clay	
	>3561	1.3				- 3	CL	Clav	
	>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
			NI	C		<b>_</b> U	NЛ	Site Name: Cedar Canyon 16 ST 0	08 & Cypress Federal 33-1
				2				Incident Number: nAPP22103435	35 & nAPP2231458632
								Job Number: 03B1417173	
		LITHOL	OGI	C / SOIL S	SAMPLING	6 LOG		Logged By: Noah Duker	Method: Hand Auger
Coord	inates: 32	2.222485,	-103	.982004				Hole Diameter: 6"	Total Depth: 7'
								PID for chloride and vapor, respec n factor included.	tively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
	>3561	0.8		SS09	] -	L 0	CL	Clay	
	>3561	6.2		PH09	1	_ 1	CL	Clav	
	>3561	4.1			- - -	- 2	CL	Clay	
	>3561	0.7			-	- - 3	CL	Clav	
	>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			

			E	N	S	01	U	Μ	Sample Name: SS10/PH10 Site Name: Cedar Canyon 16 ST	
									Incident Number: nAPP221034 Job Number: 03B1417173	3535 & nAPP2231458632
			LITHOL	OGI		SAMPLING	LOG		Logged By: Noah Duker	Method: Hand Auger
Сос	ordi	nates: 32	2.222357	, -103	.981810				Hole Diameter: 6"	Total Depth: 5'
									PID for chloride and vapor, resp factor included.	ectively. Chloride test
Moisture	Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic I	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 Dat	e: 5/2/24-1/17/25
			NI	C		_ U	NЛ	Site Name: Cedar Canyon 16 ST 008 & C	ypress Federal 33-1
				2				Incident Number: nAPP2210343535 & r	APP2231458632
								Job Number: 03B1417173	
		LITHOL	OGIO	C / SOIL S	SAMPLING	6 LOG		Logged By: ND, SD Met	hod: Auger/Geoprobe
Coordi	nates: 32	.222338,	-103	.981581				Hole Diameter: 2" Tota	al Depth: 24'
Comments: Field screening conducted with HACH Chloride Test Strips a performed with 1:4 dilution factor of soil to distilled water. 40% correct									Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descrip	ions
D	196	0.3		SS11	0.25	L O	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	
м	638	0		PH11	10	10	SP	Sandy, fine grain, dark brown	
м	319.2	0.5			- 12 -	- 12	CL	Sandy clay, pink	
м	515.2	0.6			14	14	CL	Sandy clay, pinkish grey	
М	515.2	0.8			 16	16	CL	Sandy clay, pinkish grey	
м	464.8	0.2			- 18	- - 18	CL	Clay/sandy, light yellow	

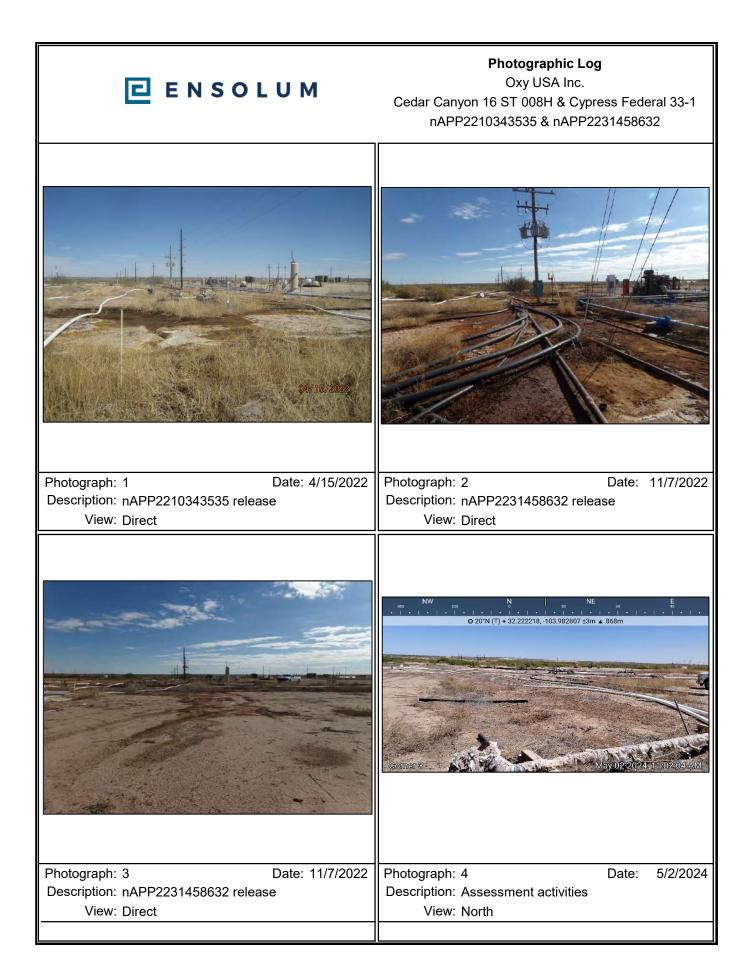
		-		6	01		R/	Sample Name: SS11/PH11 cont. Site Name: Cedar Canyon 16 ST 008	Date: 5/2/24-1/17/25 & Cypress Federal 33-1
				3		- 0		Incident Number: nAPP2210343535	
								Job Number: 03B1417173	
					SAMPLING	i log			Method: Auger/Geoprobe
	inates: 32					la sida Tast (			Total Depth: 24'
			-				correctior	PID for chloride and vapor, respectiv factor included.	ely. Chioride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Desc	riptions
М	319.2	0.1			20	L 20	CL	Sandy clay, dark brown	
М	4,648	1.7		PH11	22	22	CL	Sandy clay, reddish vellow	
w	464.8	1.5			24	24	SP	Sand, very fine grain, yellowi	sh red
w	364	1.3		PH11	25	25	CL	Sandy clay, yellowish red	

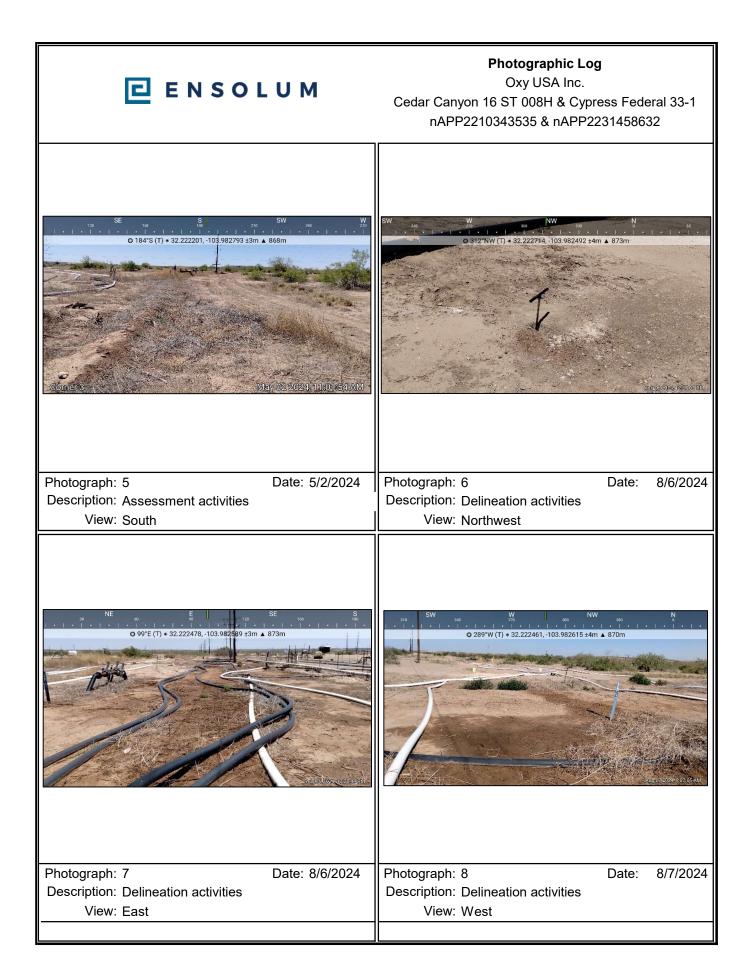


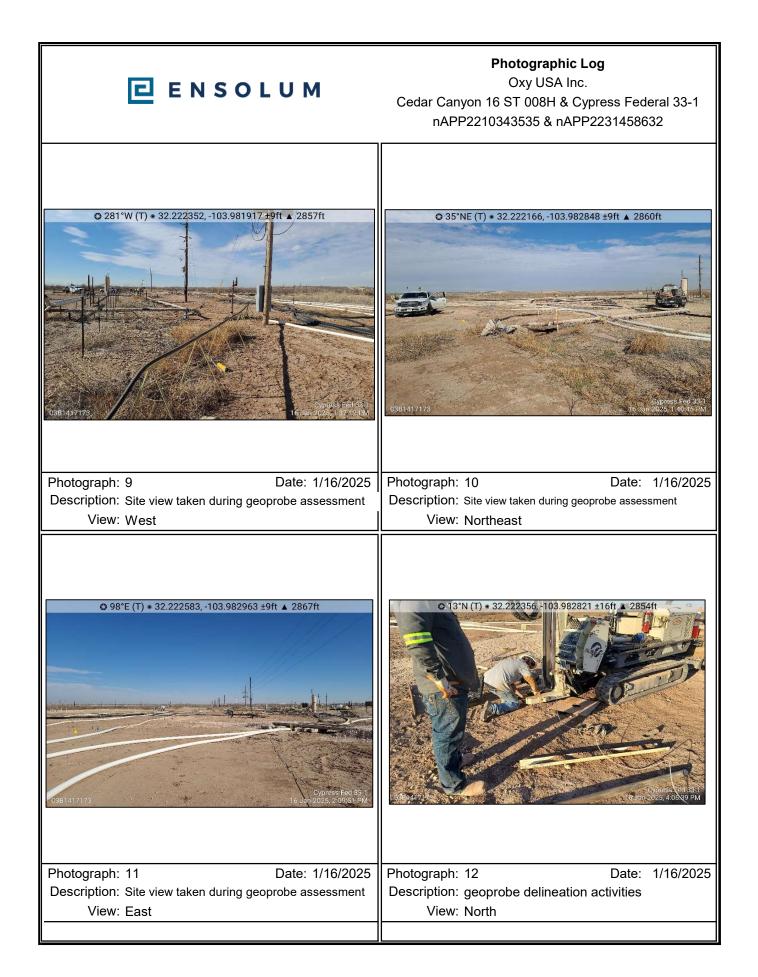
# APPENDIX C

Photographic Log

Released to Imaging: 2/6/2025 12:01:37 PM









# APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

# Cardinal Laboratories

#### \*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d 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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	423	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	52000	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	97600	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	107 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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	Analyze	d 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	% 71.5-13	4						
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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	553 9	% 49.1-14	8						

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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	Analyze	d 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 9	% 71.5-13	4						
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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	555 9	% 49.1-14	8						

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MIDLAND TX, 79705	
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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	% 71.5-13	4						
Chloride, SM4500Cl-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	Analyze	d 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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	560 9	% 49.1-14	8						

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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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17200	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16200	16.0	05/07/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **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					

#### **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 whatscever 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 whose 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 whose site to the services interruptors, loss of profits incurred by client, its subsidiaries, afflictes or successor arising out of or related to 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 76 of 171

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 14 of 15

City: Project Manager: **Relinquished By:** affiliates or successors arising out of or related to the perform Relinquished By: Project Name: Project #: Company Name: service. In no event shall Cardinal be liable for incidental or Project Location: Phone #: Sampler Name: Address: Sampler - UPS - Bus - Other: Delivered By: (Circle One) nalyses. All claims including those for negligence and any LEASE NOTE: Liability and FOR LAB USE ONLY Lab I.D. SECHEN North N 038 200 Und 6 S 2 0 S 132 8 Burn LYA 5/10 101 East Marland, Hobbs, NM 88240 202 F 503 NBQN 104 (575) 393-2326 FAX (575) 393-2476 506 101 205 0 10g E alla EN Soluin -6 Marinteld 11 Sample I.D. 1 6 N32015 5688. Vulcer deral County other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 5 Corrected Temp. °C Observed Temp. °C Ft Fax #: Project Owner: Time: Time; State: Date ntal dan + RAT Day anon 0 NIN Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com lages, including without limitation, business inter あ Z under by Cau 8 0.7 Zip: G (G)RAB OR (C)OMP **Received By** Received **# CONTAINERS** 1970 GROUNDWATER Sample Condition Cool Intact Yes Yes No No No W WASTEWATER MATRIX SOIL er such claim is based OIL ons, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE or tort, State: City: P.O. #: OTHER Attn: Fax #: Phone #: Address: Company: ACID/BASE PRESERV Allattials) upon any of the CHECKED BY: ICE / COOL Wado BILL OTHER to the an Zip: 1 SIJA 42/24 上ちた ナコーコイ たたい 一日子 あた DATE シューギ シューション DIANCA 10 SAMPLING SF Z id by the client for the All Results are emailed. Please provide Email address: Turnaround Time: REMARKS: E Thermometer ID #140 Correction Factor 0°C Verbal Result: hareen a ensolum. 22 100 5 F 5 8 0 TIME F 0 BI EX Yes TPH Standard Rush hlow Jpg COM N NO ANALYSIS Add'l Phone #: Bacteria (only) Sample Condition Cool Intact Observed Temp Ves Yes REQUEST Observed Temp. Corrected Temp. °C ĉ Of 2

# RDIN oratories

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: **Relinquished By:** service. In no event shall Cardinal be liable for incidental or Project #: Project Manager: Company Name: PLEASE NOTE: Liability and inalyses. All claims including Project Location: Project Name: Sampler Name: 4242381 FOR LAB USE ONLY Lab I.D. Moulh including those for negligence and any other 60 212H1960 Mid By Dunky out of or res, and to the perfor 101 East Marland, Hobbs, NM 88240 (+Weys Releval (575) 393-2326 FAX (575) 393-2476 34 <  $\geq$ And Ning Eddy Hadilip Wanghted Sample I.D. -57-(reen 22 NTS MILLAN MUMB 53-STRA-880Fax #: Time: 008 Project Owner: Date: St. State: 1 NC usive remedy for any claim arising whether based in cor WN F ges, including without limitation, business inter remedy for any claim arising whether based in contract or lort, shall be limited to the amount paid by the client for the wer shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable Incer by un Bhi S Zip: 5 (G)RAB OR (C)OMP Received By: **# CONTAINERS** F Þ 5 GROUNDWATER F 0 WASTEWATER MATRIX SOIL OIL ons, loss of use, or loss of profits incurred by client, its subsidiaries SLUDGE City: OTHER Fax #: Phone #: State: Attn: P.O. #: Company: Address: ACID/BASE PRESERV upon any of the abo-Wade >ICE / COOL BILL TO OTHER Zip: 12/24 DATE stated i ) KAN (L SAMPLING X reasons or otherwise All Results are emailed. Please provide Email address: Qij Verbal Result: TIME P Ngheen (a) Britolium BTEX □ Yes 74 hlandes (QM ON D ANALYSIS REQUEST Add'l Phone #: こもい

# Received by OCD: 1/31/2025 4:41:47 PM

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Observed Temp. °C Corrected Temp. °C

Sample Condition Cool\_Intact AYes AYes No No No

CHECKED BY:

Turnaround Time:

Standard Rush

QB

Bacteria (only) Sample Condition

Cool Intact

Corrected Temp. °C Observed Temp. °C

(Initials)

Thermometer ID #140 Correction Factor 0°C

+

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

Date: Time:

**Received By:** 

REMARKS:

# Page 77 of 171

City:

Address:

Phone #:



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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.6	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9760	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10500	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.3	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.7	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18800	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4720	16.0	08/12/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/06/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	08/12/2024	ND	416	104	400	3.77	QM-07
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	28400	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	26000	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4400	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	148 9	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.2	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/07/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg	/kg	Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	2024 ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>98.3</i>	% 71.5-13	24						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.6	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

# 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	% 71.5-13	34						
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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

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

BTEX 8021B	mg/	′kg	Analyze	Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 1		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	% 71.5-13	34						
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	.2/2024 ND		104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.7	% 49.1-14	8						

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#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	08/08/2024	Sampling Date:	08/08/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	CYPRESS FEDERAL 33-1	Sampling Condition:	Cool & Intact
Project Number:	03B1417173	Sample Received By:	Shalyn Rodriguez
Project Location:	OXY - EDDY COUNTY, NM		

# 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		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	% 71.5-13	34						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/12/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

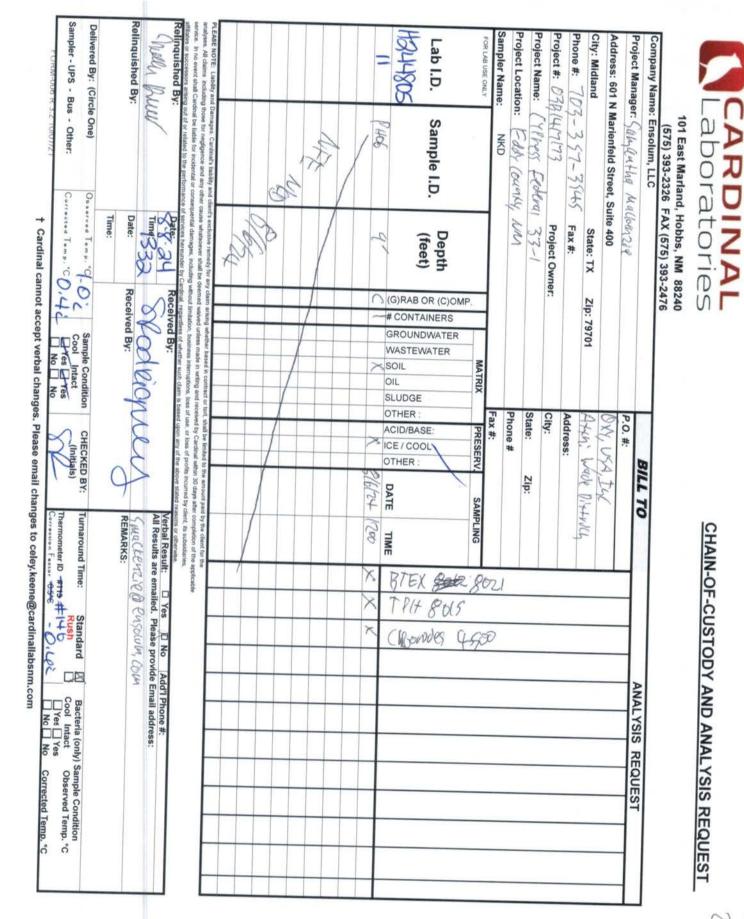
#### Cardinal Laboratories

#### \*=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

	BILL TO ANALYSIS	Yahartya Mallanzar P.O. #:	140 7 CI X X 8604 (c	PHDZ 1/ CIIXX X BIGGA	irdinal's liability and cl ligence and any other		
	Yahartya Mallanza		e: TX Zip: 79701 # e: TX Zip: 79701 # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : ACID/BASE: ICE / COOL OTHER : CE / COOL OTHER : CE / COOL	State: TX     Zip: 79701       1-3572-3545     Fax #:       2-3572-3545     Fax #:       2-1     Depth       NKD     Depth       NKD     Image: State: State	State: TX     Zip: 79701     Atdress:       7-3 57-3145     Fax #:     Address:       Rith 173     Project Owner:     City:       Cyflerst Felderal     32-1     State:       NKD     Depth     Depth       NKD     Ifeet)     Fax #:       NKD     Fax #:     Fax #:       NKD     Depth     Oci0MP.       NKD     Ifeet)     Ifeet)       Ifeet)     Ifeet)     Ifeet)       Ifeet)     Ifeet)     Ifeet)       Ifficitie     Acid/Base:     Fax #:       Ifficitie     Ifficitie     Ifficitie       I		
Subjection     BILL TO     ANALYSIS       Salvederting     P.O. #:     P.O. #:       arienfeld Street, Suite 400     PNV/USQ. Tail     Image: Constraint of the second	Yorkerstyp         P.O. #:         P.O. #:           arienfeld Street, Suite 400         PYV/USQ. Tail         Image: Construction of the second sec	MXY,USQ. 7	NKD     Project Owner:     Address:       NKD     Fax #:     Address:       NKD     Sample I.D.     Depth       (G)RAB OR (C)OMP.     Fax #:       # CONTAINERS     GROUNDWATER       WASTEWATER     SOIL       OIL     SLUDGE       OTHER:     ACID/BASE:       ICE / COOL     OTHER:       ACID/BASE:     Fax #:       BTEX     \$D21       TIME     \$01 S	NKD     Project Owner:     Address:       NKD     Vilvess Feldburg     33 -1     State:     Zip:       NKD     NKD     Depth     Cidy:     State:     Zip:       NKD     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Fax #:     Fax #:       NKD     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Fax #:     Fax #:       NKD     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Fax #:     Fax #:       UB     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Fax #:     Fax #:       UB     (G)RAB OR (C)OMP.     Fax #:     Fax #:     Fax #:     Fax #:       UB     C     OTHER:     MATRIX     PRESERV     Sampling       UB     C     OTHER:     Fax #:     Fax #:     Fax #:       UB     C     OTHER:     Sampling     Fax #:     Fax #:       UB     C     OTHER:     Sampling     Fax #:     Fax #:       UB     C     C     Fax #:     Fax #:     Fax #:       UB     C     C     C     Fax #:     Fax #:       UB     C     C     C     C     C       UB     C     C     C     C     C       UB     C <td< td=""><td>NKD     Fax #:     Address:       NKD     Project Owner:     City:       NKD     Curuly MM     Phone #       NKD     Depth     County MM       NKD     Cernity MM     Phone #       NKD     Cernity MM     Phone #       NKD     Cernity MM     Phone #       NKD     Cernity MM     Presserv       Sample I.D.     Cernity MM     Presserv       (feet)     GROUNDWATER     Pax #:       VM3     OIL     SoliL       UH0     Cernity MM     Presserv       UH0     Cernity MM     Presserv       NKD     Cernity MM     Presserv       Sample I.D.     (feet)     GROUNDWATER       NKD     Cernity MA     Presserv       VH0     Cernity MA     Presserv       VH0     Cernity MA     Presserv       VH0     Cernity MA     Presserv       NKD     Cernity MA     Presserv       NKD</td></td<>	NKD     Fax #:     Address:       NKD     Project Owner:     City:       NKD     Curuly MM     Phone #       NKD     Depth     County MM       NKD     Cernity MM     Phone #       NKD     Cernity MM     Phone #       NKD     Cernity MM     Phone #       NKD     Cernity MM     Presserv       Sample I.D.     Cernity MM     Presserv       (feet)     GROUNDWATER     Pax #:       VM3     OIL     SoliL       UH0     Cernity MM     Presserv       UH0     Cernity MM     Presserv       NKD     Cernity MM     Presserv       Sample I.D.     (feet)     GROUNDWATER       NKD     Cernity MA     Presserv       VH0     Cernity MA     Presserv       VH0     Cernity MA     Presserv       VH0     Cernity MA     Presserv       NKD		
Salvalert Lang     BILL TO     ANALYSIS       arienfeld Street, Suite 400     P.O. #:     P.O. #:       State: TX     Zip: 79701     P.V. U.A., Tal.	arienfeld Street, Suite 400 (NV/USA, Triceston State: TX Zip: 79701 (ALLAND Marko Ma	N Marienfeld Street, Suite 400 State: TX Zip: 79701 ALLA Warks	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL ICE / COOL	Sample I.D.     Depth     MAD     Project Owner:     City:       1     Construction     City:     State:     Zip:       1     City:     City:     State:     Zip:       1     City:     Fax #:     Phone #       1     City:     Phone #     Phone #       1     City:     Project Owner:     Fax #:       1     City:     Phone #     Phone #       1     City:     Project Owner:     Phone #       1     City:     Project Owner:     Phone #       1     City:     Phone #     Phone #       1     City:     Project Owner:     Phone #       1     City:     Project Owner:     Phone #       1     City:     Project Owner:     Project Owner:       1     Project Owner:     <	Autross:     Project Owner:     Clip:       NKD     Project Owner:     Clip:       NKD     Project Owner:     Clip:       NKD     Project Owner:     Clip:       NKD     Phone #     Phone #       NKD     Depth     Clopeth       Image: Clopeth     Image: Clopeth     Presserv       Sample I.D.     Image: Clopeth     Clopeth       Image: Clopeth     Image: Clopeth     Presserv		
BILL TO     ANALYSIS       601 N Marienfeld Street, Suite 400     P.O. #:       601 N Marienfeld Street, Suite 400     P.V. USA, TuC       1and     State: TX     Zip: 79701       707 - 757 - 7504     Fax #:     P.O. #:	Itanager: $\chi$ ( $\lambda_{lef}$ ), $\chi$ $\rho$ , $\gamma$ , $\gamma$ $\rho$ , $\rho$ , $\gamma$ 601 N Marienfeld Street, Suite 400 $\Im$ V, $U$ , $\Lambda$ , $T_{nl}$ $\Im$ V, $U$ , $\Lambda$ , $T_{nl}$ Iand     State: TX     Zip: 79701 $\Im$ H, $\Lambda$ , $W$ and $\Im$ $703 - 357 - 3504$ Fax #: $\Theta$ V, $U$ , $W$ and $\Im$	601 N Marienfeld Street, Suite 400 and State: TX Zip: 79701 AHA Wale	Sample I.D. (feet) Depth (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL DATE TIME	Sample I.D.     Depth     Clourky NM     Project Owner:       NKD     VMD     Curky NM     Phone #       NKD     Cigran Origination (C)OMP     Fax #:     Zip:       VASTEWATER     MATRIX     PRESERV     Sampling       VASTEWATER     OIL     SLUDGE     OTHER:     ACID/BASE:       OIL     SLUDGE     OTHER:     Date     Time       BTEX     SUL     SUL     SUL     SUL       VASTEWATER     ACID/BASE:     CE / COOL     OTHER:       ACID/BASE:     ICE / COOL     DATE     Time       BTEX     SUL     SUL     SUL       VASTEWATER     SOL     SUL     SUL	Image: Sample I.D.     Project Owner:     City:       NKD     Villet's Febberg 33-1     State:     Zip:       NKD     Villet's Febberg 33-1     State:     Zip:       NKD     Depth     Depth     Fax #:     Fax:       NKD     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I.D.     Image: Sample I.D.     Image: Sample I.D.     Fax:     Fax:       Image: Sample I		
BILL TO     BILL TO     ANALYSIS       BILL TO     ANALYSIS       N Marienfeld Street, Suite 400     P.O. #:       State: TX     Zip: 79701       AH4M : Walle Diffwilch       T-357-3545     Fax #:       Address:	Image: State: TX     Zip: 79701     P.O. #:       7-357-3545     Fax #:     Address:	N Marienfeld Street, Suite 400 State: TX Zip: 79701 7-357-3545 Fax #: Address:	Sample I.D. (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: ACID/BASE: ICE / COOL ICE	NKD     Sample I.D.     Depth     Sample I.D.       1     1     1     1       1     1     1	Image: State:     State:     Zip:       NKD     KUM     KUM     Fax #:     Fax #:       NKD     Image: State:     Fax #:     Fax #:       Sample I.D.     Image: State:     COMP.       Image: State:     Image: State:     Fax #:       Image: State:     Image: State:		
BILL TO     BILL TO     ANALYSIS       Project Owner:     City:     P.O. #:     P.O. #:	Ier:     Xubberthut     P.O. #:       N Marienfeld Street, Suite 400     Image: State: TX     Zip: 79701       State:     TX     Zip: 79701       AH-M     Multiplication     Image: State: TX       BULLT     T2     Fax #:       BULLT     Address:       BULLT     Project Owner:       City:	N Marienfeld Street, Suite 400 State: TX Zip: 79701 AHAN Walle BULT 173 Project Owner: City:	ACID/BASE: CE / COOL OTHER: ACID/BASE: CE / COOL OTHER: ACID/BASE: COUL OTHER: ACID/BASE: CE / COOL OTHER: ACID/BASE: CE / COOL ACID/BASE: CE / COOL ACID/BASE: ACID/BASE	PHO Sample I.D. Sample I.D. Sample I.D. (Geet) Containers GROUNDWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER WASTEWATER CE / COOL OTHER: ACID/BASE: ICE / COOL OTHER: BTEX \$D21 THME BTEX \$D21 TPH \$015	Image: Control of the second secon		
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Schulertug Machingshit     BILL TO     ANALYSIS       Marienfeld Street, Suite 400     P.O. #:     P.O. #:       State: TX     Zip: 79701     D.V.Y. U.S.Q. Tug       -757-7545     Fax #:     Address:       -4471773     Project Owner:     City:       4471775     Foject Owner:     City:       447177     State:     Zip:	P.O. #:     P.O. #:       Marienfeld Street, Suite 400     State: TX       State: TX     Zip: 79701       P.O. #:     ONVY USA Two       -7357-3545     Fax #:       Project Owner:     Address:       Ylivefs Febbuar     33-1       State:     Zip:       Ylivefs Febbuar     State:       Zip:     State:	Marienfeld Street, Suite 400     Oxy USA Tak       State: TX     Zip: 79701     AHAA: Walle       -357-3545     Fax #:     Address:       1441/73     Project Owner:     City:       141173     Global 33-1     State:     Zip:       241173     Folject Owner:     City:       241173     State:     Zip:	Sample I.D.       Depth         (feet)       Depth         (G)RAB OR (C)OMP.       PRESERV.         # CONTAINERS       GROUNDWATER         WASTEWATER       SOIL         OIL       SLUDGE         OTHER :       ACID/BASE:         ACID/BASE:       RESERV.         ICE / COOL       OTHER :         DATE       IMATER         BTEX       \$DZI         TIME       \$OI \$S	Fax #         Sample I.D.       Depth         (feet)       Depth         (G)RAB OR (C)OMP.       # CONTAINERS         (GROUNDWATER       WASTEWATER         WASTEWATER       SOIL         OIL       SLUDGE         OTHER :       ACID/BASE:         ICE / COOL       OTHER :         ACID/BASE:       ICE / COOL         OTHER :       DATE         MATE       BTEX \$D21         Struct       BTEX \$D21         Y       YPH \$OIS	Fax#         Sample I.D.       Cepth       Depth         1405       1407       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1405       1107       1107       1107       1107         1407       1107       1107       1107       1107         1407       1107       1107       1107       1107         1107		
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Nameger:         Kindlight Kurd         Mall TO         MALL TO         AMALYSIS           ss: 501 N Marienfeld Street, Suite 400         State: TX         Zip: 79701         Rift TO         Rift TO         Address:           st:         703 - 357 - 3545         Fax #:         Rift TO         Rift TO <th>PF:     XVAInformedid     State:     TX     Zip:     PRO       3     State:     TX     Zip:     73701     HH, Walje     HH, Walje       1     -3573545     Faxe:     Chr.     Kate:     Chr.       1     -3573545     Faxe:     Chr.     Nations:     Chr.       1     -3573545     Faxe:     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     Chr</th> <td>Nmarienfeld Street, Suite 400         State: TX         Zip: 79701         Att N         Wall           1-3 57-3145         Fax #:         Address:         Address:         Address:           R4L1173         Project Owner:         Cip:         Phone #         Address:           NKD         Project Owner:         Cip:         Phone #         Address:           NKD         Depth         Openth         Cip:         Fax #:         Cip:           NKD         Depth         Cip:         Openth         Cip:         Fax #:         Cip:           NKD         Cip:         Cip:         Cip:         Cip:         Cip:         Cip:         Cip:           NKD         Cip:         Cip:         Cip:         Cip:         Cip:         Cip:         Cip:         Cip:           NKD         Cip:         Cip:<td>HbD2     HbD2     HbD2     HbD2     HbD2       HbD2     HbD2     HbD2     HbD2     HbD2       HbD3     HbD2     HbD2     HbD2     HbD2       HbD3     HbD3     HbD3     HbD2     HbD2       HbD3     HbD3     HbD3     HbD2     HbD2       HbD3     HbD3     HbD3     HbD2     HbD2       HbD5     D12     D1     X     HbD2       HbD5     D2     D1     X     HbD2       HbD5     D2     D1     X     HbD2       Damages. 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Kate:     Chr.       1     -3573545     Faxe:     Chr.     Nations:     Chr.       1     -3573545     Faxe:     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     Chr.       1     -3673545     Chr.     Chr.     Chr.     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Cutolint's tablity and client's vertices remark for any dam analities whether based is contract of tot, thall be immed to be annound to	Hog     B     I     X     BCC+       Invase     C     I     X     BCC+       Invase     Invase     Invase     Invase     BCC+       Invase     C     Invase     Invase     Invase       Invase     Invase     Invase     Invase     Invase       Invase     Invase     Invase     Invase     Invase       Invase     Invase <td>Loud of or related to the performance of sancese hereunder by Caddad, regardless of vithefite work of Upon and workin a do tays after Loud of or related to the performance of sancese hereunder by Caddad, regardless of vithefiter work claim is based upon any of the above stated res Performance of sancese hereunder by Caddad, regardless of vithefiter work claim is based upon any of the above stated res Performance of the performance of the perfo</td>	Loud of or related to the performance of sancese hereunder by Caddad, regardless of vithefite work of Upon and workin a do tays after Loud of or related to the performance of sancese hereunder by Caddad, regardless of vithefiter work claim is based upon any of the above stated res Performance of sancese hereunder by Caddad, regardless of vithefiter work claim is based upon any of the above stated res Performance of the performance of the perfo		
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Page 26 of 29



# Page 104 of 171

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Page 27 of 29

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	City:	er	Project Owner:	52121	Project #: 075
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	Atth: wade likewich	Zip: 79701	State: TX		City: Midland
	Oxt, usty, Inc		lite 400	Address: 601 N Marienfeld Street, Suite 400	Address: 601 N
	P.O. #:		MUCHENZIC	Samoutha "	Project Manager:
ANALYSIS REQUEST	BILL TO			Company Name: Ensolum, LLC	Company Name
		3240 2476	Hobbs, NM 88 AX (575) 393-2	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
		Ň	ratories	abora	
CHAIN-DE-CLISTODY AND ANALYSIS BEDLIEST	CH		INA	ARDIN	
		•			

Delivered By: (Circle One) Sampler - UPS - Bus - Other: FORM-000 RCS/2 10/07/2	Reliaquished By:	PLEASE NOTE: Liabley and Damages, analyses. All claims including those for n service. In no event shall Cardinal be list	33			X	Lab I.D. Si	FOR LAB USE ONLY	Sampler Name: g	Project Location:	Project Name: (Y)	Project #: 63 B (4	Phone #: 704-2	City: Midland	Address: 601 N Mari	Project Manager: 5		101	
Ine)     Owner/For Tomp, °C     O     Sample Condition     CHECKED BY:     Turnaround Time:     Standard     Ba       Other:     Corracted Tomp, °C     O. 4 'c     Cool Intact     (Initials)     Thermometer ID     First 4140     Co       Other:     Corracted Tomp, °C     O. 4 'c     Pres 4 Yes     Yes     Corracted Tomp, °C     O. 4 'c     Pres 4 Yes       Other:     Corracted Tomp, °C     O. 4 'c     Pres 4 Yes     Corracted Tomp, °C     O. 4 'c     October 10	India the performance of services hereunder by Candinal, regardless of weether and Party 24 Received By: Time 332 Received By: Time: Time:	WHE WHY CHARTER AND A CHARTER	40 3- C 1 V	M 0,22 C 1 X			(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX	the North Nukor	7		17(73 Project Owner:	5773545 Fax#:	State: TX Zip: 79701	Address: 601 N Marienfeld Street, Suite 400	Junenthy Markenzie	solum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	boratories
n CHECKED BY: Turnaround Ti (Initials) Thermometer ID Correction Factor	Altight dam is based upon any of the above situated reasons or collevations Altight of the above situated reasons or collevations All Results a Structure REMARKS:	4. shall be limited to the amount paid by object by the dimited to the amount paid by object by the context of the context within 30 days after context of the context o	X N45	X (955	X (005	Oldo N	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	PRESERV. SAMPLING	Fax #:	*	State: Zin:	City:	Address:	Atta: Wade Distancy	OXY, USA, Inc	P.O. #:	BILL TO		CHA
Turnaround Time: Standard A Bacteria (only) Sample Condition Rush Cool Infact Observed Temp. °C Corrected Temp. °C Corrected Temp. °C	ann or benueded Verbal Result: □ Yes Q'No  Add'I Phone #: All Results are emailed. Please provide Email address: SMUCKONZTY OCUSUUM, ( SW) REMARKS:	the client for the upplicable					т ВТЕх 802 ТРН 8015 СЦюхдея 4	3	90							- 12	ANALYSIS REQUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

# Page 106 of 171

84

Page 29 of 29



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 <a href="https://www.tceg.texas.gov/field/ga/lab\_accred\_certif.html">www.tceg.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

Celey D. Keene Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: 0 Project Number: 0 Project Manager: 1 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.

#### Cardinal Laboratories

# \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				I 11 22' 282-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	704		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method 80	021								
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	ЈН	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (F	PID)		94.8 %	71.5	-134	5011753	ЛН	18-Jan-25	8021B	
Petroleum Hydrocarbons by	<b>y GC FID</b>									
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	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				H 11 25' 282-02 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	800		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 80	)21								
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	ЛН	18-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5011753	ЈН	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (P.	ID)		94.9 %	71.5	-134	5011753	JH	18-Jan-25	8021B	
<u>Petroleum Hydrocarbons by</u>	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			102 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			104 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:										
				H 05 2' 282-03 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds Chloride	32.0		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B		
Volatile Organic Compound		121	10.0	ing/kg	·	5011701	ii v	20 Juli 23	1500 01 15		
Benzene*	<0.050	J <b>Z</b> 1	0.050	mg/kg	50	5011753	ЛН	18-Jan-25	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	5011753	ЛН	18-Jan-25	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5011753	ЛН	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 (P.	ID)		94.5 %	71.5	-134	5011753	ЛН	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			86.4 %	48.2	-134	5011752	MS	17-Jan-25	8015B		
Surrogate: 1-Chlorooctadecane			85.8 %	49.1	-148	5011752	MS	17-Jan-25	8015B		

### **Cardinal Laboratories**

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				H 05 6' 282-04 (So	oil)					
				-0-01(5	,,,,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	ories					
Inorganic Compounds										
Chloride	1090		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	ls by EPA Method 8	021								
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	ЛН	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	PID)		93.6 %	71.5	-134	5011753	JH	18-Jan-25	8021B	
Petroleum Hydrocarbons by	y 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			70.6 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			70.3 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				I 05 24' 282-05 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
<u>Inorganic Compounds</u> Chloride	784		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
			10.0	ilig/kg	-	5011781	ΚV	20 <b>-</b> Jan-23	4500-61-8	
Volatile Organic Compounds		021								
Benzene*	< 0.050		0.050	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5011753	ЛН	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PL	D)		94.5 %	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			107 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			110 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:										
				I 05 25' 282-06 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	ll Laborat	ories						
<u>Inorganic Compounds</u> Chloride	704		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 8	021									
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	ЛН	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 (P.	ID)		95.4 %	71.5	-134	5011753	ЛН	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			104 %	48.2	-134	5011752	MS	17-Jan-25	8015B		
Surrogate: 1-Chlorooctadecane			108 %	49.1	-148	5011752	MS	17-Jan-25	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				H 01 8' 282-07 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	1120		16.0	mg/kg	4	5011781	KV	20-Jan-25	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 8	021								
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	ЛН	18-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PI	D)		94.8 %	71.5	-134	5011753	ЈН	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			105 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				I 01 12' 282-08 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	736		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
Volatile Organic Compounds	by EPA Method 8	021								
Benzene*	< 0.050		0.050	mg/kg	50	5011753	ЛН	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 (PI	D)		94.9 %	71.5	-134	5011753	ЛН	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			103 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# Cardinal Laboratories

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ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				H 01 24' 282-09 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ıl Laborat	tories					
Inorganic Compounds										
Chloride	592		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 8	021								
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	ЈН	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		95.1 %	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			105 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			107 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

### **Cardinal Laboratories**

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Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
			H 01 25' 282-10 (Se							
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
		Cardin	al Labora	tories						
Inorganic Compounds		14.0			5010011		20.1.25	4500 CL D		
Chloride	624	16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B		
Volatile Organic Compound	s by EPA Method 802	1								
Benzene*	< 0.050	0.050	mg/kg	50	5011753	ЛН	18-Jan-25	8021B		
Toluene*	< 0.050	0.050	mg/kg	50	5011753	ЛН	18-Jan-25	8021B		
Ethylbenzene*	< 0.050	0.050	mg/kg	50	5011753	ЈН	18-Jan-25	8021B		
Total Xylenes*	< 0.150	0.150	mg/kg	50	5011753	ЈН	18-Jan-25	8021B		
Total BTEX	< 0.300	0.300	mg/kg	50	5011753	ЛН	18-Jan-25	8021B		
Surrogate: 4-Bromofluorobenzene (P	ID)	94.6 %	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		103 %	48.2	-134	5011752	MS	17-Jan-25	8015B		
Surrogate: 1-Chlorooctadecane		106 %	49.1	-148	5011752	MS	17-Jan-25	8015B		

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:										
				H 03 2' 282-11 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	4800		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B		
Volatile Organic Compounds	s by EPA Method 8	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	ЛН	18-Jan-25	8021B		
Surrogate: 4-Bromofluorobenzene (Pl	D)		94.6 %	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			78.5 %	48.2	-134	5011752	MS	17-Jan-25	8015B		
Surrogate: 1-Chlorooctadecane			78.7 %	49.1	-148	5011752	MS	17-Jan-25	8015B		

# Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:CYPRESS FEDERAL 33-1Reported:Project Number:03B141717328-Jan-25 14:37Project Manager:HADLIE GREENFax To:Fax To:									
				I 03 14' 282-12 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	ll Laborat	ories					
Inorganic Compounds Chloride	560		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
		0.2.1	10.0	ilig/kg	4	5012011	11111	20 <b>-</b> Jan-25	4300-61-8	
Volatile Organic Compounds Benzene*	<u>by EPA Method 8</u> <0.050	021	0.050	mg/kg	50	5011753	ЛН	18-Jan-25	8021B	
Toluene*	<0.050		0.050	mg/kg	50	5011753	Л	18-Jan-25	8021B 8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	5011753	л	18-Jan-25	8021B 8021B	
Total Xylenes*	<0.150		0.050	mg/kg	50	5011753	л	18-Jan-25	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PII			94.7 %	71.5		5011753	ЈН	18-Jan-25	8021B	
<u>Petroleum Hydrocarbons by</u>	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			97.7 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			98.9 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

### **Cardinal Laboratories**

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				2	Reported: 28-Jan-25 14:3	37
				[ 03 24' 282-13 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds Chloride	320		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
			10.0	ilig/kg	4	5012011	11101	20 <b>-</b> Jan-23	4500-61-8	
Volatile Organic Compounds		21	0.050		50	5011753	ЛН	18-Jan-25	8021B	
Benzene* Toluene*	<0.050		0.050	mg/kg	50 50	5011753	лн ЛН	18-Jan-25 18-Jan-25	8021B 8021B	
	<0.050 <0.050		0.050	mg/kg mg/kg	50	5011753	Л	18-Jan-25	8021B 8021B	
Ethylbenzene* Total Xylenes*	< 0.050		0.050	mg/kg	50 50	5011753	Л	18-Jan-25	8021B 8021B	
Total BTEX	<0.130		0.130	mg/kg	50	5011753	Л	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (PII			94.8 %	71.5		5011753	Л	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			103 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705		Project Nun Project Mana	nber: 03B				2	Reported: 28-Jan-25 14:	37
			H 03 25' 282-14 (Se						
Analyte	Result	Reporting MDL Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
		Cardina	al Laborat	tories					
Inorganic Compounds		1.0			5012011	10.6	20.1.25	4500 CL D	
Chloride	816	16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	s 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 (P.	D)	95.6 %	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		106 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane		108 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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# **Inorganic Compounds - Quality Control**

# **Cardinal Laboratories**

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:	Reported: 28-Jan-25 14:37	

# Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5011753 - Volatiles										
Blank (5011753-BLK1)				Prepared: 1	17-Jan-25 A	nalyzed: 1	8-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: 1	17-Jan-25 A	nalyzed: 1	8-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: 1	17-Jan-25 A	nalyzed: 1	8-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			

### **Cardinal Laboratories**

# \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

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

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Company Name: Ensolum, LLC	C		BILL TO		ANALYS	ANALYSIS REQUEST
Project Manager: Hadlie Green			P.O. #:	_		
Address: 601 N. Marienfeld St. STE 400			Company:			
a	: 79701		Attn:			
Phone #: 432-557-8895	Email: hgreen@ensolum.com	ensolum.com	Address:		r	
Project #: 0 3 13 14/7/73	Project Owner:	0XV	City:		00	
2		-	State: Zip:			
Project Location: Ell	Nr		Phone #:			
Sampler Name: Shane Diller			Email:	PH	TEX /	
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n training	6 0	2 ×	× 1-7-25	×	XX	
5 2HZ-2 DS	24 0	x 1	52 61-1 ×	X	×	
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	r shall be deemed walved unless made r shall be deemed walved unless made rs, including without imitation, business can be unnot be Cartillard	contract or tort, shall be amount to the amount in writing and incelved by Cardinal with interruptions, loss of use, or loss of prof	meny to any sem many unimar assed is constant or tork stall be assed to the anound and the centre of the associates in trading and increased by Cardinal Michina 30 days after competition of the applicable to including without anound by Cardinal Michina 30 days after competition of the applicable days including without anound by Cardinal Angularity and an annual sector and a subset of the applicable increases by Cardinal Michina 30 days and an annual sector and an annual sector and an annual sector and an annual sector and annual sector annual sector annual sector annual sector annual sector and annual sector and annual sector annual s	enite		
	Date: 17.25 Reco	Received By:		Verbal Result:  Yes All Results are emailed. Ple	I No ase provide Ema	Add'I Phone #: I address:
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Page 21 of 22

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

**CARDINAL** Laboratories

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Verbal Result:     Yes     No     Add'I Phone #:       Varbal Result:     Please provide Email address:       Klowery@ensolum.com     Bjennings@ensolum.com
hal Result. D Yes D No Results are emailed. Please provide Ema rery@ensolum.com / Bjennings@ensolum.co MARKS: Paykey/AFE/NonAFE:
430         7

# **CARDINAL** Laboratories

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (675) 393-2476 Company Name: Ensolum, LLC

Project Manager: Hadlie Green

City: Midland

State: TX Zip: 79701

Address: Attn:

P.O. #: Company:

ANALYSIS REQUEST

BILL TO

Address: 601 N. Marienfeld St. STE 400

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2012



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 <a href="https://www.tceg.texas.gov/field/ga/lab\_accred\_certif.html">www.tceg.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

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: CYPRE oject Number: 03B14 oject Manager: HADLI Fax To:		Reported: 28-Jan-25 14:32
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.

### Cardinal Laboratories

# \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				2	Reported: ?8-Jan-25 14::	32
				H 11 5' 283-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
<u>Inorganic Compounds</u> Chloride	2880		16.0	mg/kg	4	5012011	НМ	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 80	21								
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	ЛН	18-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (P	ID)		94.9 %	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			97.1 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			98.4 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03B				2	Reported: 8-Jan-25 14:	32
				I 11 10' 283-02 (So	oil)					
					,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	256		16.0	mg/kg	4	5012011	HM	20-Jan-25	4500-Cl-B	
Volatile Organic Compound	s by EPA Method 80	21								
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	ЛН	18-Jan-25	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	5011753	JH	18-Jan-25	8021B	
Surrogate: 4-Bromofluorobenzene (Ph	(D)		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			104 %	48.2	-134	5011752	MS	17-Jan-25	8015B	
Surrogate: 1-Chlorooctadecane			106 %	49.1	-148	5011752	MS	17-Jan-25	8015B	

# Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:		Reported: 28-Jan-25 14:32
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# **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 &	z 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	

### **Cardinal Laboratories**

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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# Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Laboratories
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		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5011753 - Volatiles										
Blank (5011753-BLK1)				Prepared: 1	7-Jan-25 A	nalyzed: 1	8-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: 1	7-Jan-25 A	nalyzed: 1	8-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: 1	7-Jan-25 A	nalyzed: 1	8-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			

### **Cardinal Laboratories**

# \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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# Petroleum Hydrocarbons by GC FID - Quality Control

# **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
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			

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

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

### Cardinal Laboratories

# \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland (575) 393-2326 LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 LLC	BILL TO	ANALYSIS	SIS REQUEST
Company Name: Ensolutii, LLV		P.O. #:	-	
Project manager manager and a Marianfeld St STE 400		Company:		
State: TX Zip:	79701	Attn:	1	
410	Email: hgreen@ensolum.com	Address:	:00	
Photos +	Project Owner:	City:	-	
1		State: ZIP:	302	
- recession	Nr	Phone #:	PH 8 EX8	
Project Location: Eday County	1.	Email:	BTI	
Sampler Name: Shane Diller	MATRIX	PRESERV. SAMPLING	В	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL ( OTHER : DATE		
11-42 586028	C C	× 1-15-25 1	15-20 x x x X	
D THE				
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claims including those for negligence and any onne users means to event shall Cardinal be liable for incidential to consequential dama to event shall Cardinal be liable for incidential to the seriformatice of se	ages, including without limitation, business interruptions, icas of use, or ross or envices hereunder by Cardinal, regardless of whether such claim is based upo	on any of the above stated reasons or otherwise.	bal Result: 🛛 Ye	s 🗆 No 🛛 Add"I Phone #:
Relinquished By:	Date: 1-17-25 Time:	A A	Results are emailed. wery@ensolum.com /	mail address: m.com
Relinquished By:	Date: Received By:	20	S NOW	Jugusted ID Ch
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Connected Temp. "C 29. Cool Intact Connected Temp. "C 29. Cool Intact Bring Two	(Initials)	Suna Der Sandard Santa (1997)	Created Temp. "C
			1	

† Cardinal cannot accept

Released to Imaging: 2/6/2025 12:01:37 PM

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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 <a href="https://www.tceg.texas.gov/field/ga/lab\_accred\_certif.html">www.tceg.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated 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. Keine

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: CYPRE oject Number: 03B141 oject Manager: HADLII Fax To:		Reported: 28-Jan-25 14:27
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received

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.

### Cardinal Laboratories

### \*=Accredited Analyte

Celey D. Keine

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 Nur Project Man	nber: 03B				2	Reported: 28-Jan-25 14:	27
				PH 05 84-01 (Wa	ıter)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Labora	tories					
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	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Nur Project Man	nber: 03E				2	Reported: 28-Jan-25 14::	27
			H2502	PH 03 284-02 (Wa	nter)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Labora	tories					
Inorganic Compounds										
Chloride*	8700		4.00	mg/L	1	5012108	AC	21-Jan-25	4500-Cl-B	
TDS*	20000		5.00	mg/L	1	5011901	AC	20-Jan-25	160.1	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: Fax To:		Reported: 28-Jan-25 14:27
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# **Inorganic Compounds - Quality Control**

		Cardin	al Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5011901 - Filtration										
Blank (5011901-BLK1)				Prepared: 1	19-Jan-25 A	nalyzed: 20	)-Jan-25			
TDS	ND	5.00	mg/L							
LCS (5011901-BS1)				Prepared:	19-Jan-25 A	nalyzed: 20	)-Jan-25			
TDS	802		mg/L	1000		80.2	80-120			
Duplicate (5011901-DUP1)	Sou	rce: H250265-	01	Prepared:	19-Jan-25 A	nalyzed: 20	)-Jan-25			
TDS	1010	5.00	mg/L		1050			4.09	20	
Batch 5012108 - General Prep - Wet Chem										
Blank (5012108-BLK1)				Prepared &	Analyzed:	21-Jan-25				
Chloride	ND	4.00	mg/L							
LCS (5012108-BS1)				Prepared &	Analyzed:	21-Jan-25				
Chloride	112	4.00	mg/L	100		112	80-120			
LCS Dup (5012108-BSD1)				Prepared &	Analyzed:	21-Jan-25				
Chloride	112	4.00	mg/L	100		112	80-120	0.00	20	

### **Cardinal Laboratories**

### \*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



# **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below $6^{\circ}\text{C}$

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

### Cardinal Laboratories

### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, N (575) 393-2326 FAX (575)	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
Company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST
Project Manager: Hadlie Green		P.O. #:	
Address: 601 N. Marienfeld St. STE 400	00	Company: OXU	
20	Zip: 79701	Attn:	
Phone #: 432-557-8895	Email: hgreen@ensolum.com	Address:	
Project#:	Project Owner:	City:	_
Project Name:	upress Federal 33	State: Zip:	
Project Location:		Phone #:	- <del>80</del> (80)
Sampler Name: Shane Diller		Email:	FEX
FOR LAB USE ONLY	MATRIX	RIX PRESERV. SAMPLING	T
Lab I.D. Sample I.D.	(free)) e Deptition (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	TD.5 Chlor,
12 43 M	× 1	×	250 × × 055
6449 E	x 1 9 60H	× 1-16-25/625	1625 X X
PLEASE WOTE: Lukishy and Chumgan. Cardow's lassibly and clears or All claims including those for negligence and any other cause w In no event shall Cardow be lable for incidental or consequents attitudes or surpressoon assister vid of or instand to the nerformance	PLRAE ROTE: Liability and Damagen. Cardina's leading and clearly seadow revely for any value name your base of not of value to reveal the second public of the applicable envice. All claims locating there is reading on an other cardinal table descende and under understanding and received by Cardinal Winni 20 days that completion of the applicable envice. In one event shall Cardinal be laided for incidential or consequential arranges, including without initiality, takines initiating and received, to use of prefix incurate by claims, its stabilities, an event shall Cardinal be laided for incidential or consequential arranges, including without initiality, takines initiations, to stab of use to truth of the above tables to stabilities, and the second stability of the above tables of the above tables.	to the amount paid by the cleant to the amaptets, entirely within 30 days after completion of the applicable ear- loss of profits incurred by client, its subsidiaries, ad upon any of the above stated reasons or otherwise.	ien.
Relinquished By:	Date: I-17:AS Received By:		Verbal Result:  Verbal Result:  Verbal Results are emailed. Please provide Email address:
Sel Lall	timp: 149 DUDD 1	9	klowery@ensolum.com / Bjennings@ensolum.com
Relinquished By:	Receiv		REMARKS: PaykoyIAFENONAFEX CUSTO Man Juga
	Time:		tips is solar only
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Connected Temp. "C J . Q . Cool Intact Connected Temp. "C J . Q . Cool Intact J . 3 . C I . Cool Intact I	CHECKED BY: (Initials)	Turney out time:     Gandard     Baceria (only) Sample Condition       Ruint:     Exact Collector Tamp. "C       Reserved Tamp. "C       MemorineteD     Exact Hold Collector       Convection Factor #CC-O. U       Convection Factor #CC-O. U       Convection Factor       APT> - / : 17 - 2 S

Page 7 of 7



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 <a href="https://www.tceq.texas.gov/field/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/lab\_accred\_certif.html</a>.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.8	% 49.1-14	0						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.5	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

#### Cardinal Laboratories

#### \*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

#### Cardinal Laboratories

\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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\*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.2	% 49.1-14	8						

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/24/2025	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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	Analyze	d 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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.4	% 49.1-14	8						

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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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Delivered By: (Circle One) Sampler - UPS - Bus - Ott	Relinquished By:	Oluwala	Relinquished By:	envice. In no event shall Cardinal be liable for inodental or cons affiliates or successors arising out of or related to the performance	PLEASE NOTE: Lubling and Lumages. Cardna's labelity and clients exclusive remedy for any claim arising whether based in contract or to analyses. All claims including those for negligence and any other cause whatboever shall be deemed waived unless made in writing and reco	P	9	8	L	6	5	t	CU	20	-	Lab I.D.	FOR LAB USE ONLY	Sampler Name: (	Project Location:	Project Name: Cu	Project #: 0881417178	Phone #: 432-557-8895	City: Midland	Address: 601 N.	Project Manager:	Company Name: (
her:		Administra		Cardinal be liable for incidental or consising out of or related to the performance	mages. Cardinal's isability and ci se for negligence and any other	10	00555	9155	8155	4155	9155	55 15	41SS	5138	£15S	Sample I.D.		Dluwale		pricess Fed 33-1	Beal	-		601 N. Marienfeld St. STE	Hadlie Green	575) 393-2326 FAX (575) 393-2476 Ensolum, LLC
Observed Temp. *C	Date: 1400 Time:	Time:	Date:	equental damages, including v e of services hereunder by Ca	cause whatsoever shall be de	15.0	15.0	0.5	0.5	15.0	0.5	12.0	0.21	5.0	5.0	Sample Depth (feet)		Adesmoto	34	Cedon	4 Project Owner:	Fax #:	State: TX	400		AX (575) 393-24
0,0	Received By:	8	Received By	without limitati urdinal, regard	any claim arising deemed walved	61	61	6 1	61	61	61	61	61	9-	61	(G)RAB OR (C)OMP # CONTAINERS		đ	C	Connyon			Zip:			176
Sample Condition Cool Intact	ed By:	maria	ed By:	iges, including without limitation, business interruptions, loss of use, ereunder by Cardinal, regardless of whether such claim is based up	arising whether based in contra- waived unless made in writing a	X	*	×	7	×	×	×	×	7	×	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX			16 State &			79701			
	(	MAL .	NN	, loss of use, or loss of pu n is based upon any of th	2.7	×	X	X	×	×	×	¥	×	×	X	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV.	Fax #:	Phone #:	State:	City:	Address:	Attn: Wade	Company:	P.O. #:	B
(Initials)	1	John Contraction	111	or loss of profits incurred by client, its subsidiaries oon any of the above stated reasons or otherwise.	shall be limited to the amount paid by the client for the ed by Cardinal within 30 days after completion of the applicable	1/22/25	Scheel,	1 26 Had I	1/22/25	5	5	122/25/	I Selter	1/192/195 0	122/25	DATE	SAMPLING		575-390-2828	Zip:			Wade Dittrich	Oxy USA, Inc.		BILL TO
Turnaround Time:	REMARKS:	BJennings@ens	Verbal Result:	it, its subsidiaries ris or otherwise.	nt paid by the client for the rs after completion of the a	0:24	2:42	10:17	0:12	20:01	85.60	GS:50	24:42	4:37 V	SEBO	TIME	ING		ű					9		
		@ensolu	It:		applicable	XX	XX	XX	×	X	X	XX	X	X	X	BIEX 802		_			_				_	
Standard D Rush 24 675		olum.com	Verbal Result:				×	×	×	×	X	×	X	×	×	THH 8015 Chloride	4	50	0							A
			Add'I Phone #:																							ANALYSIS REI
Bacteria (only) Sample Condition Cool Intact Observed Temp. ℃ □ Yes																										REQUEST

Page 17 of 18

## Page 161 of 171

(575) 393-2326 Company Name: Ensolum, LLC	(575) 393-2326 FAX (575) 393-2476	BILL TO	ANALYSIS REQUEST
Project Manager: Hadlie Green		P.O. #:	
Address: 601 N. Marienfeld St. STE	E 400	Company: Oxy USA, Inc.	
City: Midland	State: TX Zip: 79701	-	
Phone #: 432-557-8895		Address:	
Project #: 036 1417173 0361417	61417(92 Project Owner:	City:	
Project Name: Cypress Fed 33-1	1 Cedar Compton 16 state 8H	State: Zip:	
Project Location:	C	Phone #: 575-390-2828	>
Sampler Name: Oluwals +	Aderinto	Fax #:	00
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	■ BTEX 800 TPH 8015 Chloride
	× 10 2.0	× 1205 10	XX
500	0.51 01 1		
S	0.51 01 ×		×
PLEASE NOTE: Liabidity and Damages. Cardinal's liability and cli analyses. All claims including those for negligence and any other service. In no event shirld cardinal be liable for incidential or cons	client's exclusive remedy for any claim arising whether based is con ir cause whatboever shall be deemed walved unless made in whith sequental damages, including without limitation, business interruption	ract or tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the a rns, loss of use, or loss of profits incurred by client, its subaidaries, rns, loss of use, or loss of profits incurred by client, its subaidaries, rns, loss of use, or loss of profits incurred by client, its subaidaries, rns, loss of use, or loss of profits incurred by client.	nt for the n of the applicable sublaries,
Relinquished By: Oluwals Aderinto	Date: 112312S Time:	Waller	Verbal Result:  Yes No  Add'l Phone #: All Results are emailed. Please provide Email address: BJennings@ensolum.com
Relinquished By:	Date:/400 Received By:	REMARKS:	RKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. C J. 2 Sample Condition Corrected Temp. C O. C Pres Pres	s (Initials) s	• a T • m p. °C       1.2       Sample Condition       CHECKED BY:       Turnaround Time:       W Standard       □       Bacteria (only) Sample Condition         • a T • m p. °C       0.4       □       Pres       Yes       Yes       (Initials)       Themometer ID       tqt3       Q.4 h YS       □       Ves       Ves       Ves       °C         • a T • m p. °C       0.4       □       No       □
FURM-006 R 3.2 10/07721			l

## Received by OCD: 1/31/2025 4:41:47 PM

## Page 162 of 171



# 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., <u>https://doi.org/10.3133/sir20195071</u>



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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

Page			

QUESTIONS

Action 427273

QUESTIONS	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	427273
	Action Type:
1	[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

Please answer all the questions in this group.						
Site Name	CYPRESS FEDERAL 33-1					
Date Release Discovered	11/07/2022					
Surface Owner	State					

#### Incident Details

Please answer all the questions in this group.		
Incident Type	Produced Water Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

#### Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	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

Page 166 of 171

QUESTIONS, Page 2

Action 427273

QUESTIONS (continued)	
Operator:	OGRID:
OXY USA INC	16696
P.O. Box 4294	Action Number:
Houston, TX 772104294	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.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a s	afety 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.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	mowledge and understand that pursuant to OCD rules and regulations all operators are required uses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or	
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/31/2025	

General Information Phone: (505) 629-6116

Operator:

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for domestic or stock watering purposes Any other fresh water well or spring

A spring or a private domestic fresh water well used by less than five households

Incorporated municipal boundaries or a defined municipal fresh water well field

Did the release impact areas not on an exploration, development, production, or

Categorize the risk of this well / site being in a karst geology

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

**QUESTIONS** (continued)

OGRID:

16606

Page 167 of 171

QUESTIONS, Page 3

Action 427273

	10090
P.O. Box 4294	Action Number:
Houston, TX 772104294	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 approva release discovery date.	I and beyond). This information must be provided to the appropriate district office no later than 90 days after the
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	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 an	nd 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.)

Between 1 and 5 (mi.)

Between 1 and 5 (mi.)

Greater than 5 (mi.) Between 1 and 5 (mi.)

Medium

Yes

Between 1000 (ft.) and 1/2 (mi.)

Between 1000 (ft.) and 1/2 (mi.)

Zero feet, overlying, or within area

# storage site

A wetland

A subsurface mine

A 100-year floodplain

An (non-karst) unstable area

Please answer all the question	s that apply or are indicated. This information must be provided to a	the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	on plan approval with this submission	Yes
Attach a comprehensive report	demonstrating the lateral and vertical extents of soil contamination	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vert	ical extents of contamination been fully delineated	Yes
Was this release entirely	contained within a lined containment area	No
Soil Contamination Sampli	ing: (Provide the highest observable value for each, in mil	ligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI 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
	1 NMAC unless the site characterization report includes completed timelines for beginning and completing the remediation.	efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
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 wa	s) the remediation complete(d)	01/22/2025
What is the estimated su	rface 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 su	urface 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 mea	asurements 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.
TI 000		

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

QUESTI	ONS (continued)
Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696 Action Number: 427273 Action Type: ICC Att Office (Dependicution Disc)
QUESTIONS	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	annronriate 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	
(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 ef which includes the anticipated timelines for beginning and completing the remediation.	forts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Wade Dittrich Title: Environmental Coordinator Email: wade_dittrich@oxy.com Date: 01/31/2025

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

QUESTIONS, Page 4

Action 427273

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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

Page	169	of 171

QUESTIONS, Page 5

Action 427273

QUESTIONS (continued)		
Operator:	OGRID:	
OXY USA INC P.O. Box 4294 Houston, TX 772104294	16696	
	Action Number:	
	427273	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		

Deferral	Requests	Only

Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.		
Requesting a deferral of the remediation closure due date with the approval of this submission	Νο	

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OXY USA INC

P.O. Box 4294

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

**QUESTIONS** (continued)

16696

427273

[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS, Page 6

Page 170 of 171

Action 427273

OGRID: Action Number: Houston, TX 772104294 Action Type:

QUESTIONS

Operator:

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

Page	1	71	of	1	71

CONDITIONS

Action 427273

CONDITIONS				
Operator:	OGRID:			
OXY USA INC	16696			
P.O. Box 4294	Action Number:			
Houston, TX 772104294	427273			
	Action Type:			
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			

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