

August 5, 2024

New Mexico Oil Conservation Division

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

Re: Closure Request
MCA Unit #146

Incident Number nAPP2321651067

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the MCA Unit #146 (Site). The purpose of the assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a release of crude oil and produced water at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2321651067.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 27, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8073564° N, -103.7518694° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On August 4, 2023, a flowline rupture resulted in the release of approximately 10 barrels (bbls) of produced water and 1 bbl of crude oil onto the surface of the well pad. No released fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 23, 2023. The release was assigned Incident Number nAPP2321651067.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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 greater than 60 feet below ground surface (bgs) based on the nearest groundwater well data. A borehole (BH-4) was drilled approximately 0.5 miles northeast of the Site on March 23, 2020. The borehole was drilled during remediation activities associated with Incident Number NJXK1621825385. The borehole was advanced to a depth of 60 bgs

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, NM 88220 | ensolum.com

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via air rotary drilling rig, and no groundwater was encountered. The boring log is included in Appendix A. The location of borehole BH-4 is presented on Figure 1.

The closest continuously flowing or significant watercourse is greater than 300 feet from the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

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

SITE ASSESSMENT ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Assessment activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Seven assessment soil samples (SS01 through SS06 and SS08) were collected around the visible release extent from a depth of 0.5 feet bgs to confirm the lateral extent of the surface release. Four assessment soil samples (SS07 and SS09 through SS11) were collected within the release extent, to assess the surface soil within the release. The release extent and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The assessment soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories for analysis of the following constituents of concern (COC): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 4500.

Laboratory analytical results for assessment soil samples SS01 through SS06 and SS08, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and confirmed the lateral extent of the surface release. Laboratory analytical results for assessment soil samples SS07 and SS09 through SS11, collected within the release extent, indicated that chloride and/or TPH concentrations exceeded the Site Closure Criteria. Laboratory analytical results are summarized on the attached Table 1. Based on visible staining in the release area and laboratory analytical results for the assessment soil samples, excavation activities were scheduled.



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EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

During June 2024, Ensolum personnel returned to the Site to oversee excavation of impacted soil. To direct excavation activities, soil was field screened for volatile aromatic hydrocarbons (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. Excavation activities were performed using a hydrovac, track-mounted backhoe, and transport vehicles. The excavation was completed to depths ranging from 4 feet to 6 feet bgs.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS22 were collected from the floor of the excavation from depths ranging from 4 feet to 6 feet bgs. Composite soil samples SW01 through SW07 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 6 feet bgs. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Boreholes BH01 and BH02 were advanced within the open excavation to depths of 7 feet and 8 feet bgs, respectively. Soil from the boreholes was field screened for VOCs and chloride. Final depth of the boreholes was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Soil samples were selected for laboratory analysis from depths ranging from 6 feet to 8 feet bgs. Borehole BH03 was advanced to a depth of 4 feet bgs west of pumpjack to delineate sidewall sample SW07 to below the most stringent Table I Closure Criteria. Soil from the borehole was field screened for VOCs and chloride. Based on the absence of elevated field screening results, samples were selected for laboratory analysis from depths of 1-foot and 3 feet bgs. Field screening results and observations for the boreholes were logged on lithologic soil sampling logs, which are included in Appendix C. The borehole locations are presented on Figure 2. The excavation and delineation soil samples were handled following the same procedures as described above and submitted to Cardinal Laboratories for analysis of BTEX, TPH, and chloride.

Laboratory analytical results for the excavation floor and sidewall samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements, where applicable. Laboratory analytical results for the delineation samples collected from boreholes BH01 through BH03 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 4,400 square feet in areal extent. A total of approximately 1,250 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

RECLAMATION ACTIVITIES

Upon completion of excavation activities and receipt of final laboratory analytical results, the excavation was backfilled. One representative 5-point composite sample (BF01) was collected from the backfill material. The backfill soil sample was handled and analyzed following the same procedures as described above. Laboratory analytical results for the backfill soil sample confirmed compliance with the NMOCD requirement for the reclaimed area to contain non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg and TPH concentrations less than 100 mg/kg. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included as Appendix D.



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Following backfill activities, the well pad returned to active production activities and the disturbed pasture area was recontoured to match the surrounding topography. The disturbed pasture area was seeded with the BLM sandy sites seed mix #2 at the rate specified in pounds of pure live seed (PLS) per acre.

Species/Cultivar	PLS/Acre
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

The seed mix was distributed with a broadcast seed spreader and raked in. Photographs of the reclaimed excavation area are provided in Appendix B.

The Site remains a active well pad; therefore, any soil remaining in place on the active well pad that is compliant with the Site Closure Criteria but exceeds reclamation requirements of NMAC 19.15.29.13.D (1) will be removed during plugging and abandonment of the well and final reclamation of the well pad.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the August 4, 2023, release of crude oil and produced water. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements in the top four feet of the pasture area. Additionally, the release was laterally and vertically delineated to the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater was estimated to be greater than 60 feet bgs at the Site and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident nAPP2321651067.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or acole@ensolum.com.

Sincerely, **Ensolum, LLC**

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Aimee Cole

Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources, LLC

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations
Figure 3 Excavation Soil Sample Locations



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Table 1 Soil Sample Analytical Results Appendix A Referenced Well Records

Appendix B Photographic Log

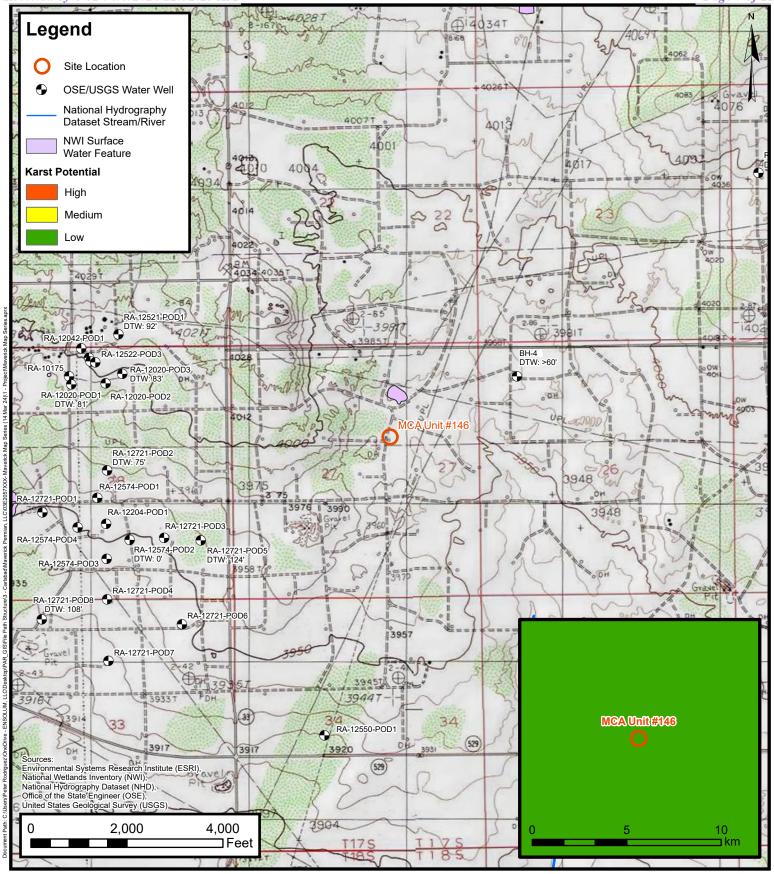
Appendix C Lithologic Soil Sampling Logs

Appendix D Laboratory Analytical Reports & Chain of Custody Documentation





FIGURES





Site Receptor Map

MCA Unit #146
Maverick Permian, LLC
Incident Number: nAPP2321651067
G-27-17S-32E

G-27-17S-32E Lea County, New Mexico FIGURE

1

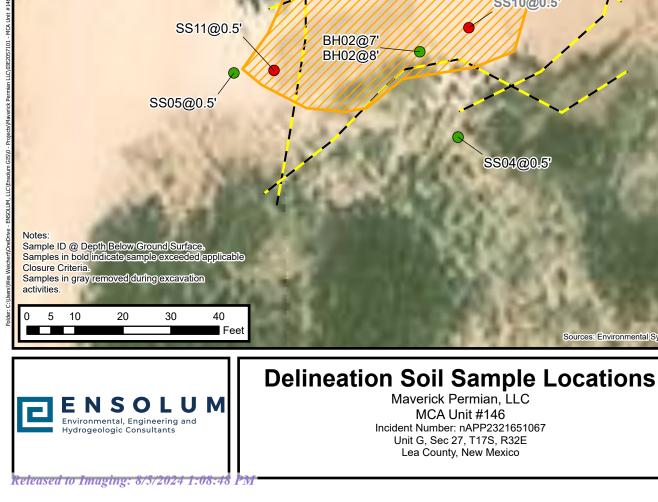
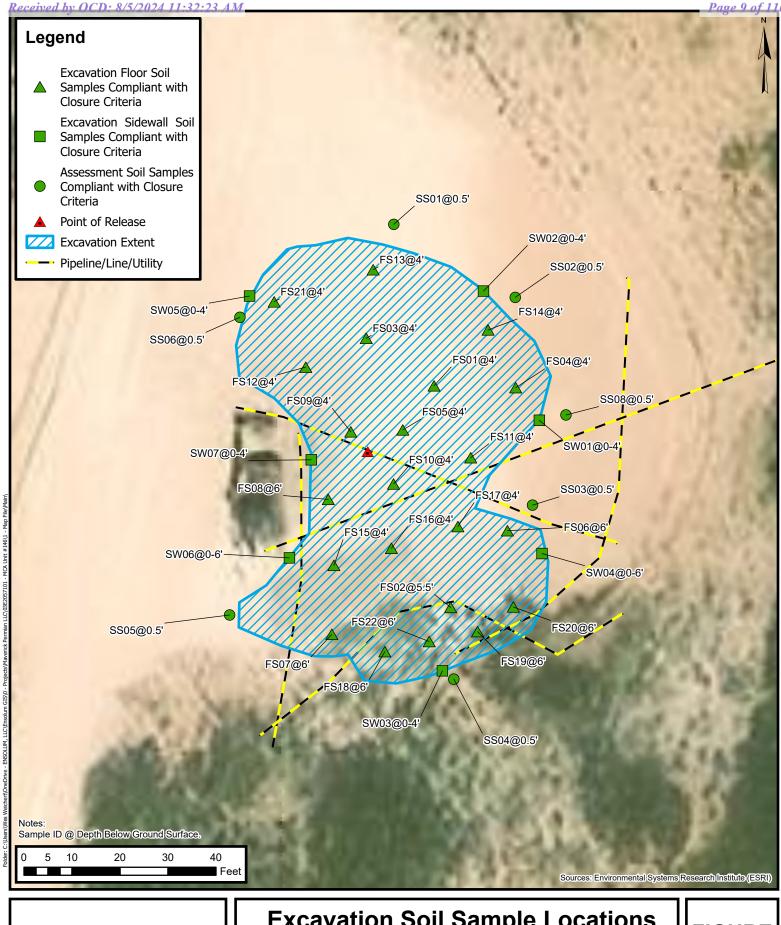


FIGURE 2





Excavation Soil Sample Locations

Maverick Permian, LLC MCA Unit #146 Incident Number: nAPP2321651067 Unit G, Sec 27, T17S, R32E Lea County, New Mexico

FIGURE 3



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

MCA Unit 146 Release Maverick Permian, LLC Lea County, New Mexico

					verick Permian, I County, New Me					
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tak	ole I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
	nation Requireme feet of off-pad are	_	NE	NE	NE	NE	NE	NE	100	600
				Asse	essment Soil San	nples				
SS01	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	03/13/2024	0.5	<0.050	<0.300	<10.0	14.9	10.6	14.9	25.5	96.0
SS03	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SS04	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	368
SS05	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
SS06	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	448
SS07	03/13/2024	0.5	0.109	0.788	11.0	6,220	1,870	6,231	8,101	1,760
SS08	03/13/2024	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS09	03/13/2024	0.5	<0.050	<0.300	<10.0	6,570	1,750	6,570	8,320	16,600
SS10	03/13/2024	0.5	0.870	82.4	1,640	33,600	5,640	35,240	40,880	4,800
SS11	03/13/2024	0.5	1.400	90.1	1,830	27,200	4,400	29,030	33,430	8,000
				Deli	neation Soil Sam	ıples				
BH01	06/05/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH01	06/05/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH02	06/05/2024	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
BH02	06/05/2024	8	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
BH03	07/30/2024	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
BH03	07/30/2024	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
				Excava	tion Floor Soil S	amples				
FS01	06/04/2024	4	<0.050	15.1	65.1	94.3	59.9	159	219	32.0
FS02	06/04/2024	5.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS03	06/07/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	560
FS04	06/07/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	592
FS05	06/07/2024	4	<0.050	<0.300	<10.0	43.3	38.2	43.3	81.5	512
FS06	06/07/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208

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TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

MCA Unit 146 Release Maverick Permian, LLC Lea County, New Mexico

					County, New Me					
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tak	ole I Closure Crite 19.15.29)	eria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
	nation Requirement feet of off-pad are	_	NE	NE	NE	NE	NE	NE	100	600
FS07	06/20/2024	6	<0.050	<0.300	<10.0	13.4	<10.0	13.4	13.4	448
FS08	06/07/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS09	06/13/2024	4	<0.050	<0.300	<10.0	233	200	233	433	672
FS10	06/13/2024	4	<0.050	<0.300	<10.0	61	53.3	60.7	114	912
FS11	06/13/2024	4	<0.050	<0.300	<10.0	43	46.1	42.5	88.6	256
FS12	06/13/2024	4	0.144	3.67	22	481	548	503	1,051	976
FS13	06/13/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	512
FS14	06/13/2024	4	<0.050	<0.300	<10.0	313	278	313	591	864
FS15	06/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	896
FS16	06/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	944
FS17	06/14/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS18	06/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS19	06/17/2024	6	<0.050	<0.300	<10.0	44	26.7	43.7	70.4	864
FS20	06/17/2024	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
FS21	06/13/2024	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	928
FS22	06/17/2024	6	<0.050	<0.300	<10.0	52	19	52	70.4	496
				Excavati	ion Sidewall Soil	Samples				
SW01	6/7/2024	0 - 4	<0.050	<0.300	<10.0	16.3	<10.0	16.3	16.3	704
SW02	6/7/2024	0 - 4	<0.050	<0.300	<10.0	10.6	<10.0	10.6	10.6	144
SW03*	6/7/2024	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW04	6/7/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
SW05	6/14/2024	0 - 4	<0.050	0.7	<10.0	11	<10.0	<10.0	<10.0	368
SW06	6/14/2024	0 - 6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
SW07	6/14/2024	0 - 4	<0.050	0.432	<10.0	234	36.4	234	270	2,880

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TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

MCA Unit 146 Release Maverick Permian, LLC Lea County, New Mexico

				Lea	County, New Me	XICO				
Sample Designation	Sample Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Tab	le I Closure Crite 19.15.29)	ria (NMAC	10	50	NE	NE	NE	1,000	2,500	10,000
NMOCD Reclamation Requirement for the top four feet of off-pad areas.		NE	NE	NE	NE	NE	NE	100	600	
	Backfill Soil Sample									
BF01	6/18/2024	NA	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0

Notes:

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

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

NA: Not Analyzed

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation requirement in the top 4 feet is 600 mg/kg for chloride and 100 mg/kg for TPH.

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation

standard where applicable.



APPENDIX A

Referenced Well Records

212	C-M	D-0	2067	TE TETRA TECH					LOG OF BORING BH-4						Page 1 of 3			
Proje	ect N	lam	e: MC/	A 123 Ir	njec	tion l	Line	Rele	ase									1
Bore	hole	Lo	cation:	GPS: 32	2.810)847°	, -103	3.743	217°			Surface Elevation: 3973 ft						
Bore	hole	Nu	mber: I	BH-4						E	Boreho Diame	ole ter (in.):		Date Started: 3	3/23/2020	Date F	inished	d: 3/23/2020
	ш		ppm)	(mdd	ERY (%)	TENT (%)	cf)		NDEX			While Drillin			OBSERVATION OF E		Ā D	DRY_ft
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	Г СІДОІБ СІМІТ	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	M	MATEI	RIAL DESCRI	IPTION		DEPTH (ft)	REMARKS
	7	M	208	1.6								-SM- SIL odor, with	TY SA	AND; Brown, de	ense, dry, with n	0		BH-4 (0'-1')
-	$ \rangle\rangle$											odor, with	1110 01	ammg.			_	
-	$ \rangle\rangle$	M	361	1.7														BH-4 (2'-3')
-	$ \rangle\rangle$	M	657	1.9													4	BH-4 (3'-4')
5	$\left \right\rangle \left\langle \right $	M	2.0	2.1								-SM- SIL with no st			se, dry, with no	odor,		BH-4 (4'-5')
	$\langle \rangle$,				
-	$\langle \langle \rangle \rangle$	M	2.03	1.9														BH-4 (6'-7')
-	$\langle \langle \rangle \rangle$																	
-	$\langle \langle \rangle \rangle$																	
10	$\langle \langle \rangle \rangle$	M	1.95	2													_	BH-4 (9'-10')
	$\langle \rangle$																	
-	$\langle \rangle$																_	
-	$\langle \langle \rangle \rangle$																_	
-	$\langle \langle \rangle \rangle$																14	
15	$\langle \langle \rangle \rangle$	M	9.45	3.1								-SM- SIL	TY SA	AND; Light brov	vn, dense, dry, v	with	_'*	BH-4 (14'-15')
13_	$\langle \rangle$	\sqcap										i no odor, v	WILII II	o stairiirig.			_	
-	$\langle \rangle$																_	
-	$\langle \rangle$																_	
-	$\langle \rangle$																	
-	$\langle \rangle$	M	3.75	3.2														BH-4 (19'-20')
20	$\langle \rangle$	H	5.10	0.2														511-7 (13-20)
-	$\left \right\rangle \left\langle \right $																_	
-	$\left \right\rangle \left\langle \right $																_	
-	$\left \right\rangle \left\langle \right $																_	
-	$\left \right\rangle \left\rangle$	\forall	0.04															DII 4 (04) 05°°
25 Sam)) pler	Щ	2.81	1.4	<u> </u>	<u> </u>) Opera	tion			1 Nua 12						BH-4 (24'-25')
Sam Type	s:	1 / 1	Split Spoon Shelby Bulk Sample Grab Sample	v K			r T	Opera Types	Mud Rota Con Fligl	ary tinuou nt Aug sh	s er	Hand Auger Air Rotary Direct Push Core Barrel	Anal Surf	ytical samples	are shown in the s an estimated v	e "Rema alue.	arks" (column.
			sample	; 🗀 .				Trillin	Rota				Drillor					

212C-MD-02067	TE TETRA	TECH	LOG OF BORING BH-4			
Project Name: M	CA 123 Injection Li	ine Release				
Borehole Location:	GPS: 32.810847°, -	-103.743217°	Surface Elevation: 3973 ft			
Borehole Number:	BH-4	Bore Diam	hole neter (in.): 8 Date Started: 3/23/2020 Date Finished	: 3/23/2020		
E E E E E E E E E E E E E E E E E E E	ppm) ERY (%) TENT (%)	M M	WATER LEVEL OBSERVATIONS While Drilling ▼ DRY ft Upon Completion of Drilling Remarks:	RY_ft		
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm)	<u> </u>	DRY DENSITY (pdf) LIQUID LIMIT DEXTICITY INDEX MINUS NO. 200 (%)	MATERIAL DESCRIPTION (E) HE	REMARKS		
30 1.87	1.7	LL PI S	-SM- SILTY SAND; Tan, dense, dry, with no odor, with no staining.	BH-4 (29'-30') BH-4 (34'-35') BH-4 (39'-40')		
Sampler Spoin She She She Sam	Vane Shear California	Operation Types: Mud Rotary Flight Auger Wash Rotary	Hand Auger Air Rotary Air Rotary Direct Push Core Barrel Notes: Analytical samples are shown in the "Remarks" c Surface elevation is an estimated value.	olumn.		

212C-MD-02067 TETRAT		L	OG OF BORING BH-4		Page 3 of 3
Project Name: MCA 123 Injection Lin	ne Release	l			
Borehole Location: GPS: 32.810847°, -1	103.743217°	Surface Elevation:	3973 ft		
Borehole Number: BH-4	Borel Diam	hole leter (in.):	Date Started: 3/23/2020	Date Finished	I: 3/23/2020
PE ELD (ppm) (ppm) TENT (%)	ă X	W	/ATER LEVEL OBSERVATIO		RY_ft
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm) SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	DRY DENSITY (pdf) LIQUID LIMIT D PLASTICITY INDEX MINUS NO. 200 (%)	MATE	RIAL DESCRIPTION	DEPTH (ft)	REMARKS
55 					BH-4 (59'-60')
Sampler Split Acetate Liner Types: Shelby Vane Shear	Operation Types:	Hand Auget Note	llytical samples are shown in the	e "Remarks" c	olumn.
Shelby Vane Shear Bulk Sample California Grab Sample Test Pit	Continuous Flight Auger Wash Rotary Drilling Equipment:	Direct Push Core Barrel	face elevation is an estimated value of the second prilling.	alue.	



APPENDIX B

Photographic Log



Photographic Log
Maverick Permian, LLC
MCA Unit #146
Incident Number nAPP2321651067





Photograph 1 Date: 8/4/2023 Photograph 2 Date: 5/29/2024

Description: Initial release Description: Excavation activities

View: Southeast View: Southwest





Photograph 3 Date: 6/4/2024 Photograph 4 Date: 6/7/2024

View: West View: Southeast



Photographic Log
Maverick Permian, LLC
MCA Unit #146
Incident Number nAPP2321651067





Photograph 5 Date: 6/10/2024

Description: Excavation activities

View: Southwest

Photograph 6 Date: 6/12/2024

Description: Excavation activities

View: Northeast





Photograph 7 Date: 6/26/2024 Photograph 8 Date: 6/26/2024

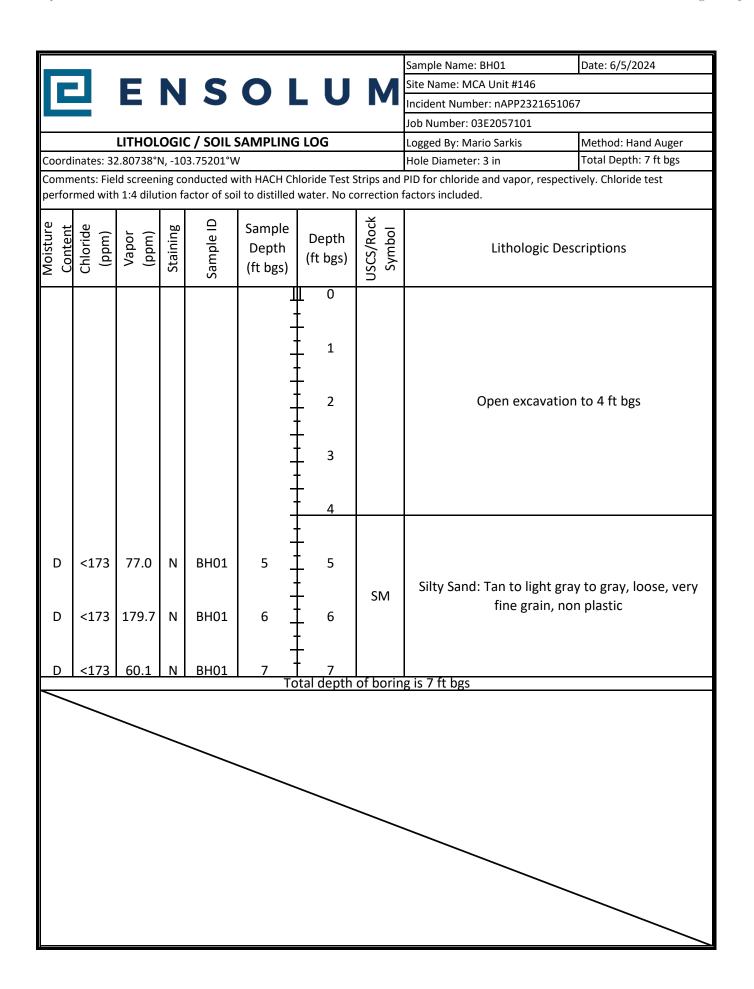
Description: Backfilled excavation Description: Backfilled excavation

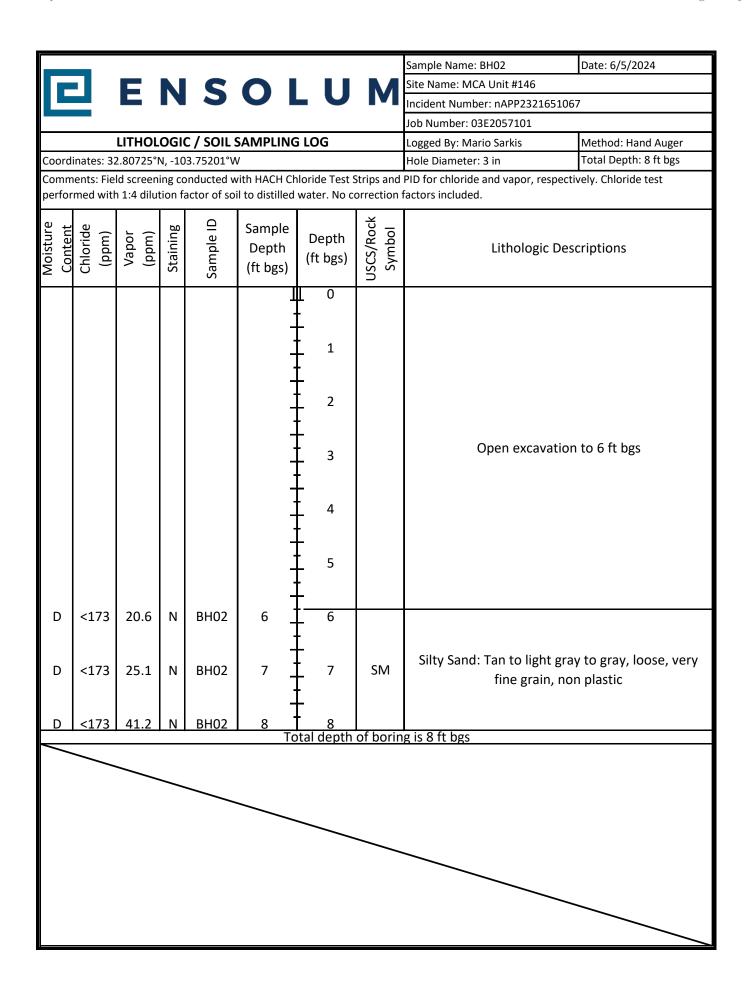
View: Southeast View: Southeast

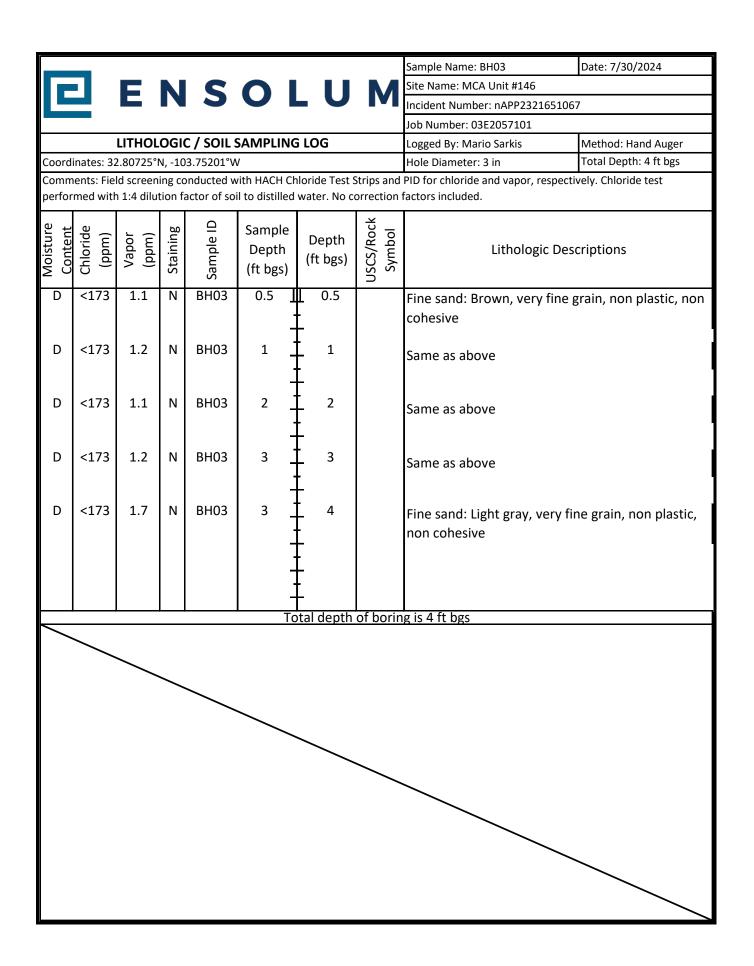


APPENDIX C

Lithologic Soil Sampling Logs









APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



March 18, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MCA UNIT 146 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/13/24 15:14.

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

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

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

Celey D. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/13/2024 Reported: 03/18/2024

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101
Project Location: NONE GIVEN

Sampling Date: 03/13/2024

Sampling Type: Soil

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

Sample ID: SS 07 0.5' (H241296-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.109	0.050	03/14/2024	ND	1.70	84.9	2.00	19.3	
Toluene*	0.314	0.050	03/14/2024	ND	1.84	92.2	2.00	19.7	
Ethylbenzene*	0.176	0.050	03/14/2024	ND	1.91	95.5	2.00	20.1	
Total Xylenes*	0.189	0.150	03/14/2024	ND	5.69	94.9	6.00	19.9	
Total BTEX	0.788	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	03/14/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	11.0	10.0	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	6220	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	1870	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	201	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/13/2024 Reported: 03/18/2024

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101
Project Location: NONE GIVEN

Sampling Date: 03/13/2024

Sampling Type: Soil

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

Sample ID: SS 08 0.5' (H241296-02)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	1.70	84.9	2.00	19.3	
Toluene*	<0.050	0.050	03/14/2024	ND	1.84	92.2	2.00	19.7	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.91	95.5	2.00	20.1	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	5.69	94.9	6.00	19.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	96.0	16.0	03/14/2024	ND	448	112	400	3.64	
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	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.9	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/13/2024 Reported: 03/18/2024

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101 Project Location: NONE GIVEN

Sampling Date: 03/13/2024

Sampling Type: Soil

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

Sample ID: SS 09 0.5' (H241296-03)

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	03/14/2024	ND	1.70	84.9	2.00	19.3	
Toluene*	<0.050	0.050	03/14/2024	ND	1.84	92.2	2.00	19.7	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.91	95.5	2.00	20.1	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	5.69	94.9	6.00	19.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	16600	16.0	03/14/2024	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	6570	10.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	1750	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	184	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/13/2024 Reported: 03/18/2024

MCA UNIT 146 RELEASE

Project Name: Project Number: 03E2097101 NONE GIVEN

Project Location:

Sampling Date: 03/13/2024

Sampling Type: Soil

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

Sample ID: SS 10 0.5' (H241296-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.870	0.500	03/15/2024	ND	1.70	84.9	2.00	19.3	
Toluene*	14.1	0.500	03/15/2024	ND	1.84	92.2	2.00	19.7	
Ethylbenzene*	21.5	0.500	03/15/2024	ND	1.91	95.5	2.00	20.1	
Total Xylenes*	45.9	1.50	03/15/2024	ND	5.69	94.9	6.00	19.9	
Total BTEX	82.4	3.00	03/15/2024	ND					

Surrogate: 4-Bromofluorobenzene (PII	D 165 % 71.5-134
--------------------------------------	------------------

Chloride, SM4500CI-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	03/14/2024	ND	448	112	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1640	50.0	03/14/2024	ND	210	105	200	2.71	
DRO >C10-C28*	33600	50.0	03/14/2024	ND	209	104	200	6.83	
EXT DRO >C28-C36	5640	50.0	03/14/2024	ND					

Surrogate: 1-Chlorooctane 193 % 48.2-134 Surrogate: 1-Chlorooctadecane 706 % 49.1-148

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Celeg D. Keene

S-04



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

03/13/2024

Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/13/2024 Sampling Date:

Reported: 03/18/2024 Sampling Type: Soil
Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool

Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2097101 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: NONE GIVEN

mg/kg

Sample ID: SS 11 0.5' (H241296-05)

BTEX 8021B

DILX GOZID	iiig/	7.49	Allalyzo	u by. 311						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	1.40	0.500	03/15/2024	ND	1.70	84.9	2.00	19.3		
Toluene*	17.0	0.500	03/15/2024	ND	1.84	92.2	2.00	19.7		
Ethylbenzene*	25.3	0.500	03/15/2024	ND	1.91	95.5	2.00	20.1		
Total Xylenes*	46.5	1.50	03/15/2024	ND	5.69	94.9	6.00	19.9		
Total BTEX	90.1	3.00	03/15/2024	ND						
Surrogate: 4-Bromofluorobenzene (PID	147	% 71.5-13	4							
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	03/14/2024	ND	448	112	400	3.64		
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*	1830	50.0	03/14/2024	ND	210	105	200	2.71		
DRO >C10-C28*	27200	50.0	03/14/2024	ND	209	104	200	6.83		
EXT DRO >C28-C36	4400	50.0	03/14/2024	ND						
Surrogate: 1-Chlorooctane	176	% 48.2-13	4							
Surrogate: 1-Chlorooctadecane	558	% 49.1-14	8							

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens



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.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(5/5) 393-2320 FA	(5/5) 393-2326 FAX (3/3) 333-24/0			^	NAI VOIC BEOLIEST
Company Name:	South, LL		BILL TO	-	ANALISIS NEGOTO:
Project Manager: A. WAR (0)	(p'	P.O. #:			
Address: 601 N. Montafeld	Held St. SAR, 400	Company:	pany: Enjoyoung LL		
city: Midland	State: T Zip: 7	Attn:	ANMAR COLD		
Phone #: 770-384-7365	Fax #:	Address:	ess:		
03=2057/01	Project Owner: Movey 1(k	City:			
Project Name: MA UNK 146		State:	: Zip:		
9		Phone #:	le #:		
Sampler Name: Nogh Duker	NO	Fax #:		<u></u>	
	-	MATRIX	PRESERV. SAMPLING		3
Lab I.D. Sample I.D. De	(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE:	OTHER:	BIEX TPH Chlorodes	
3~5		<>>	x 3/12/04 12	1	
9955	0.5' 61	7	2) my/2/1/2 /y	235 8 6	
0155	0.5, 6	5×	2		
)	0,7,6	>	7) 42/61/6		
	977	1			
ON I					
The second to any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	To and the same of for any claim aris	sing whether based in contract or tort, s	shall be limited to the amount paid by t	he client for the	
PLEASE NOTE: Liability and Damages, Cardinal's liability and clients exclusive relievely us any semi-unity and client in whiting and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waited unless made in writing and received by Cardinal within 30 days after completion of the applicable service. All claims including those for negligence and any other causes whatsoever shall be deemed waited unless made in writing and received by Cardinal within 30 days after completion of the applicable service. The applicable service is a service in an event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of trust, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of trust, or the service of the consequence of the co	clients excipisve remedy to any common er cause whatsoever shall be deemed wait sequental damages, including without limit sequental damages, including without limit sequental damages, including without limit sequental damages.	wed unless made in writing and receive itation, business interruptions, loss of u	d by Cardinal within 30 days after comes, or loss of profits incurred by client, tupon any of the howe stated reasons	fter completion of the applicable y client, its subsidiaries, reasons or otherwise.	
affiliates or successors arising out of c. related to the performance of services resumber of Caluman, agricultural programmer, agricultural progr	Date: Rece	ived By:	Ve	lt: ☐ Yes Д No re emailed. Please provid	Add'l Phone #: e Email address:
JAMES MARRY	Time: 1514 8	oder que		d(ole Derselin, com	
Relinquished By:		Received By:	R	REMARKS:	
	Time:		-	Chandan	Bactoria (only) Sample Condition
Delivered By: (Circle One)	Observed Temp. °C 3.4		CHECKED BY: Tu	Rush	Cool Infact Observed Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C		27/	Correction Factor 0°C	□ No □ No Corrected Temp. °C



March 19, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MCA UNIT 146 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 03/14/24 8:53.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Reported: 03/19/2024

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101 Project Location: MAVERICK

Sampling Date: 03/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Dionica Hinojos

Sample ID: SS 01 0.5' (H241315-01)

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	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	101 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Reported: 03/19/2024

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101

Project Location: MAVERICK

Sampling Date: 03/13/2024

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Dionica Hinojos

Sample ID: SS 02 0.5' (H241315-02)

RTFY 8021R

B1EX 8021B	mg	^и кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	96.0	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	14.9	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	10.6	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Sampling Date: 03/13/2024

Reported: 03/19/2024 Sampling Type: Soil

Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2097101 Sample Received By: Dionica Hinojos

Applyzod By: 14

Project Location: MAVERICK

Sample ID: SS 03 0.5' (H241315-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.7	% 49.1-14	8						

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Celey D. Keene



03/13/2024

Soil

Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Reported: 03/19/2024

mg/kg

Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2097101 Sample Received By: Dionica Hinojos

Analyzed By: JH

Sampling Date:

Sampling Type:

Project Location: MAVERICK

Sample ID: SS 04 0.5' (H241315-04)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111	% 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	368	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.6	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Reported:

Project Name: MCA UNIT 146 RELEASE

Project Number: 03E2097101 Project Location: MAVERICK

Sampling Date: 03/13/2024 03/19/2024 Sampling Type: Soil

Sampling Condition:

Sample Received By: Dionica Hinojos

Cool & Intact

Sample ID: SS 05 0.5' (H241315-05)

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	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	% 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	208	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	95.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.2	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 03/14/2024 Sampling Date: 03/13/2024

Reported: 03/19/2024 Sampling Type: Soil

Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2097101 Dionica Hinojos

Project Location: MAVERICK

Sample ID: SS 06 0.5' (H241315-06)

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	03/14/2024	ND	1.93	96.3	2.00	12.7	
Toluene*	<0.050	0.050	03/14/2024	ND	2.01	100	2.00	13.5	
Ethylbenzene*	<0.050	0.050	03/14/2024	ND	1.96	98.0	2.00	13.7	
Total Xylenes*	<0.150	0.150	03/14/2024	ND	6.02	100	6.00	13.9	
Total BTEX	<0.300	0.300	03/14/2024	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	448	16.0	03/14/2024	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	03/14/2024	ND	207	103	200	0.730	
DRO >C10-C28*	<10.0	10.0	03/14/2024	ND	205	103	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	03/14/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.2	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-232	(575) 393-2326 FAX (575) 393-2476		
Company Name:	Ensolum, CC(BILL TO	ANALYSIS REQUEST
Project Manager: Almee	600	P.O. #:	
Address: 60 10 M. M.	Mondenteld St. Ste, 400	Company: Enfount	
City: My dloyd	State: TX Zip: 74701	Attn: Aimer COIP	
Phone #: 720 - 384-	785 Fax #:	Address:	
Project #: 03 1 2057 [0]	Project Owner: Marentk	City:	
ame: MLA UNIT	46 Release	State: Zip:	
Project Location:		Phone #:	
Sampler Name: Nodh Do	Duker	Fax #:	
	natrix	PRESERV. SAMPLING	NG
H341315 Lab I.D. Samp	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: (CE COOL OTHER:	TIME STEX TPH Chlowdes
25	0,5,6	12/2/18 X	
2X 2	X 19 150 400 X	**************************************	788 7 7 7
23	105 0.51 6 1 X	X 3/17/04 1	210 X X X
7/1/	106 D.5' G I V	X SUNCE	7 X X
17W	NAO 7		
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affiliates or s. :- resorts arising out of or reialed to the performa Relinquis hed By:	formance of services hereunder by Cardinal, regardless of whether such claim. Date: Received By:	m. hysed upon any of the above stated reasons or otherwise Vertbal Res All Results	sons or otherwise. Verbal Result: ☐ Yes ☐ No Add'I Phone #. All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:		A (NEW 2038 WILL OM)
×.			Standard
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C \$30 Sample Condition Cool Intact Cool Intact Corrected Temp. °C Sample Condition Cool Intact Coo	CHECKED BY: (Initials)	Turnaround Time: Standard ☐ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor 0°C ☐ No ☐ No Corrected Temp. °C



June 06, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA UNIT 146 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 06/04/24 13:52.

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

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

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

Wite Sough

Accreditation applies to public drinking water matrices.

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 06/04/2024
 Sampling Date:
 06/04/2024

 Reported:
 06/06/2024
 Sampling Type:
 Soil

Project Name: MCA UNIT 146 RELEASE Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: 32.8073, -103.7518

Sample ID: FS 01 4 (H243145-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/04/2024	ND	2.06	103	2.00	1.40	
Toluene*	1.95	0.050	06/04/2024	ND	2.21	111	2.00	0.368	
Ethylbenzene*	4.56	0.050	06/04/2024	ND	2.23	112	2.00	1.64	
Total Xylenes*	8.51	0.150	06/04/2024	ND	6.83	114	6.00	2.00	
Total BTEX	15.1	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	142	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/05/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	65.1	10.0	06/04/2024	ND	190	95.0	200	0.789	
DRO >C10-C28*	94.3	10.0	06/04/2024	ND	184	91.9	200	0.999	
EXT DRO >C28-C36	59.9	10.0	06/04/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

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Mile Sough

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



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/04/2024 Reported:

06/06/2024 MCA UNIT 146 RELEASE

Project Name: Project Number: 03E2057101

Project Location: 32.8073, -103.7518 Sampling Date: 06/04/2024

Sampling Type: Soil

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

Sample ID: FS 02 5.5 (H243145-02)

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	06/04/2024	ND	2.06	103	2.00	1.40	
Toluene*	<0.050	0.050	06/04/2024	ND	2.21	111	2.00	0.368	
Ethylbenzene*	<0.050	0.050	06/04/2024	ND	2.23	112	2.00	1.64	
Total Xylenes*	<0.150	0.150	06/04/2024	ND	6.83	114	6.00	2.00	
Total BTEX	<0.300	0.300	06/04/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/05/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/05/2024	ND	190	95.0	200	0.789	
DRO >C10-C28*	<10.0	10.0	06/05/2024	ND	184	91.9	200	0.999	
EXT DRO >C28-C36	<10.0	10.0	06/05/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

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



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

(0.0) 000 1010	UV (010) 020-7410			
company Name: Ensolum, LLC		BILL TO	ANALYSIS REQUEST	
Project Manager: Aimee Cole		P.O. #:	- 1	1
Address: 3122 National Parks Hwy		Company: FINSOIUM, LLC		
City: Carlsbad	State: NM Zip: 88220	Attn: Aimee cole	0	
Phone #: (720) 384-7365	Fax #:	Address:		
Project #: 0 3 三 3 0 5 7 1 0 1	Project Owner:	City:		_
Project Name: MCA Unit 146	6 Release	State: Zip:		
Project Location: 32,8073,-103,	23.7518	Phone #: 720 -384-7365	7345	
Sampler Name: Marjo Sarki	5	Fax #:		_
	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:	BTEX TPH Chlorides	
10501	1	V 6/4/24	\ \ \	
a foa	5,5 61		1220 / /	
nalyses. All claims including those for negligence and any other review. In no event shall Cardinal be liable for incidental or conse	Inalyses. All claims including those and any other cause whatsoever shall be deemed waved unless made in contract or fort, shall be limited to the amount paid by the client for the envice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business made in writing and received by Cardinal writin 30 days after completion of the applicable envice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	ir tort, shall be limited to the amount paid received by Cardinal within 30 days after ss of use, or loss of profits incurred by clic based upon any of the above stated reast	y the client for the monitoring the control of the applicable not of the appli	
Relinquished By:	Date: Received By:		Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	
Relinquished By:	Date: Received By:	Regues	alole@ensolum.com/mswhis@ensolum.com	
	Time:	(-
Delivered By: (Circle One)	Observed Temp. Sample Condition Cool Intact	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C	

Corrected Temp. °C



June 11, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/05/24 14:49.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024
Reported: 06/11/2024
Project Name: MCA 146

Project Name: MCA 146
Project Number: 03E2057101
Project Location: 32.8073-103.7518

Sampling Date: 06/05/2024

Sampling Type: Soil

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

Sample ID: BH 01 6' (H243200-01)

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	06/07/2024	ND	1.88	94.0	2.00	8.16	
Toluene*	<0.050	0.050	06/07/2024	ND	1.98	99.0	2.00	9.03	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.00	100	2.00	9.96	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.23	104	6.00	8.62	
Total BTEX	<0.300	0.300	06/07/2024	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	16.0	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	121	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

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

Reported: 06/11/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Shalyn Rodriguez

Project Location: 32.8073-103.7518

Sample ID: BH 01 7' (H243200-02)

BTEX 8021B	mg,	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/07/2024	ND	1.88	94.0	2.00	8.16	
Toluene*	<0.050	0.050	06/07/2024	ND	1.98	99.0	2.00	9.03	
Ethylbenzene*	< 0.050	0.050	06/07/2024	ND	2.00	100	2.00	9.96	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.23	104	6.00	8.62	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	124	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/05/2024 Reported:

06/11/2024

Project Name: MCA 146 Project Number: 03E2057101 Project Location: 32.8073-103.7518 Sampling Date: 06/05/2024

Sampling Type: Soil

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

Sample ID: BH 02 7' (H243200-03)

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	06/07/2024	ND	1.88	94.0	2.00	8.16	
Toluene*	<0.050	0.050	06/07/2024	ND	1.98	99.0	2.00	9.03	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.00	100	2.00	9.96	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.23	104	6.00	8.62	
Total BTEX	<0.300	0.300	06/07/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

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

Reported: Sampling Type: Soil 06/11/2024

Project Name: MCA 146 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057101 Shalyn Rodriguez

Project Location: 32.8073-103.7518

Sample ID: BH 02 8' (H243200-04)

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	06/07/2024	ND	1.88	94.0	2.00	8.16	
Toluene*	<0.050	0.050	06/07/2024	ND	1.98	99.0	2.00	9.03	
Ethylbenzene*	<0.050	0.050	06/07/2024	ND	2.00	100	2.00	9.96	
Total Xylenes*	<0.150	0.150	06/07/2024	ND	6.23	104	6.00	8.62	
Total BTEX	<0.300	0.300	06/07/2024	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	16.0	16.0	06/07/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/06/2024	ND	193	96.3	200	1.94	
DRO >C10-C28*	<10.0	10.0	06/06/2024	ND	214	107	200	0.944	
EXT DRO >C28-C36	<10.0	10.0	06/06/2024	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC			
Project Manager: Beaux Jenninge "5	Aimee Colo	PO#:	ANALYSIS REQUEST
Address: 604 N Marienfeld Street, Suite 400 3/22 National	THE 400 3122 Nething Packs HAV	Company: Proseine Lec	
City: Midland Calls bad	State: TX NM Zip: 797		
Phone #: 210-219-8856 M5 720-384-	7365" Fax#:		
Project #: 03 \(205 \) 101	Project Owner:	City:	
Project Name: MCA 146			
6	103,75-18	State: Zip:	
1	~	rnone #: 575-390-2828	
		Fax #:	
	AP. MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	ERS ATER	X	
5	RAB OF DINTAIN DUNDW STEWA	ER: WBASE: COOL. ER:	
BHOL	GR WA SOI	ACIII	
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EASE NOTE: Liability and Damages. Cardinal's liability and clien	EASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether the control of the control		
rvice. In no event shall Cardinal be liable for incidental or consequentiales or successors arising out of or related to the performance of the linquished By:	rice. In no event shall cadinal be liable for incidental do consequential demanges, including whose the deemed valued unless made in writing and received by Cadinal which 30 days after completion of the applicable filters or successors arising out of or related to the performance of services hereunder by Cadinal, including without limitation, business interruptions, toss of use, or loss of profits incurred by client, its subsidiaries. **Including the By:**	ceived by Cardinal within 30 days after competition of the of use, or loss of profits incurred by client, its subsidiaries, asset upon any of the above stated collect, its subsidiaries,	
	TV.		o Add'I Phone #:
elinquished By:	Date 144 SKOCK	Acole Colking Company	provide Email address:
	Time:	REMARKS:	THE CASOLUTION
Delivered By: (Circle One)		CHECKED DX	
ampler - UPS - Bus - Other: Corrected	16.00 July	(Initials) Thermometer ID #113	Bacteria Cool Int
TOTAL STATE OF THE	† Cardinal cannot accept verbal change	Cardinal cannot accept verbal changes. Please email changes to color known accept.	No No
		cardinal	



June 13, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 15:04.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.8073564,-103.7518694

Sample ID: SW 01 0-4' (H243285-01)

DTEV 0021D

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	06/11/2024	ND	1.84	91.8	2.00	6.36	
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.6	2.00	4.76	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.92	96.1	2.00	2.89	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.59	93.1	6.00	2.69	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.8	% 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	704	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	16.3	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	67.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.5	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.8073564,-103.7518694

Sample ID: SW 02 0-4' (H243285-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	6.36	
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.6	2.00	4.76	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.92	96.1	2.00	2.89	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.59	93.1	6.00	2.69	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.3	% 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	144	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	10.6	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	67.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.1	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057101 Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 03 4' (H243285-03)

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	06/11/2024	ND	1.84	91.8	2.00	6.36	
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.6	2.00	4.76	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.92	96.1	2.00	2.89	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.59	93.1	6.00	2.69	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.1	% 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	560	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	71.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.5	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: FS 04 4' (H243285-04)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	6.36	
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.6	2.00	4.76	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.92	96.1	2.00	2.89	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.59	93.1	6.00	2.69	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	67.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	66.8	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: FS 05 4' (H243285-05)

BTEX 8021B

	<u> </u>			. ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	6.36	
Toluene*	<0.050	0.050	06/11/2024	ND	1.85	92.6	2.00	4.76	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.92	96.1	2.00	2.89	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.59	93.1	6.00	2.69	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 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	512	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	43.3	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	38.2	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	54.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	53.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057101 Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 06 6' (H243285-06)

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	06/11/2024	ND	2.02	101	2.00	0.275	
Toluene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	0.753	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.13	107	2.00	0.930	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.57	110	6.00	1.86	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	71.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	69.9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: FS 08 6' (H243285-07)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.02	101	2.00	0.275	
Toluene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	0.753	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.13	107	2.00	0.930	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.57	110	6.00	1.86	
Total BTEX	<0.300	0.300	06/11/2024	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	208	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	69.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.2	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: SW 03 0-4' (H243285-08)

BTEX 8021B

	9,	9	7	7: 5::					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.02	101	2.00	0.275	
Toluene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	0.753	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.13	107	2.00	0.930	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.57	110	6.00	1.86	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	72.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.4	% 49.1-14	8						

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Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/07/2024 Sampling Date: 06/07/2024

Reported: 06/13/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: SW 04 0-6' (H243285-09)

BTEX 8021B

	9,	9	7	7: :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.02	101	2.00	0.275	
Toluene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	0.753	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.13	107	2.00	0.930	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.57	110	6.00	1.86	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 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	288	16.0	06/11/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	168	83.9	200	1.44	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	166	83.1	200	4.14	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	73.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.0	% 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: Ensolum, LLC	LC	BILL TO	ANALYSIS REQUEST
Project Manager: Aimeo	COR	P.O. #:	
Address: 3/22 Nationa	and parks Hwy	company: Ensolum	
city: Carlsbad	State; N M zip: 88220	Attn: Aimee cole	
Phone #: (720) 384-	7865 Fax#:	Address: 3/72 National	ed pas
03E	7) O Project Owner: Marchic K	city: Carlsbad	
Project Name: MCA	140	State: VM Zip: 882	20
Project Location: 32, 8	07 3564, -103.75 18694	Phone #:	
Sampler Name: Oma	Hamay	Fax #:	
FOR LABUSE ONLY	MATRIX	PRESERV. SAMPLING	
)OMP.	1	Nes
Lab I.D. Sample I.D.	G)RAB OR (C) CONTAINER ROUNDWAT VASTEWATER OIL LUDGE	OTHER: CID/BASE: CE / COOL OTHER:	BTEX TPH Chlorio
	0-4' C X	10/t/7 X	255 / / / /
2 SMB2	0-4'	2	4:00
3 FS03			12:30
4 FSO4	£,		
5054	4,		1
m (FS06	6		100
2027 L Datin	6,		10:05
9 8 CW03	0-4		9:45
PLEASE NOTE: Liability and Damages. Cardina	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the contract or tort, shall be limited to the amount paid by the client for the claim of the client for the claim of the client for	ct or tort, shall be limited to the amount paid	by the client for the
analyses, he damine another the control in agreement of the serior service. In no event shall Cardinal be liable for incidental or consecutive. In no event shall Cardinal be liable for incidental or consecutive.	aminipees, revenue income unique our progression of the performance of services including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal call leable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall Cardinal shall Cardinal leable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall Cardinal shall Cardinal leable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall Cardinal shall Cardinal leable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service, in no event shall cardinal cardin	s, loss of use, or loss of profits incurred by cli m is based upon any of the above stated rea	
Relinquished By:			Verbal Result: ☐ Yes ☐ No ☐ Add'I Phone #: All Results are emailed. Please provide Email address:
(may	Time: U.(0		a cole @ ensolum. com/Msarkise ensolum.com
Relinquished By:	Date: 6/7/2V Received By:		REMARKS:
MILL	2	0	
Delivered By: (Circle One)	Observed Tame C Sample Condition	(Initials)	Rush
Sampler - UPS - Bus - Other:	Corrected Temp. °C	8	Thermometer ID ##43. Yes Yes Yes Yes Yes No Corrected Temp. °C



June 19, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/13/24 13:50.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024
Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: ** (See Notes)
Project Number: 03E2057103 Sample Received By: Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 09 4' (H243444-01)

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	06/18/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/18/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	672	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/18/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	233	10.0	06/18/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	200	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	112 5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024

Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: ** (See Notes) Sample Received By: Alyssa Parras Project Number: 03E2057103

Project Location: 32.8073564,-103.7518694

Sample ID: FS 10 4' (H243444-02)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/17/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 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	912	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/18/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	60.7	10.0	06/18/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	53.3	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Celeg D. Freene



06/13/2024

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date:

Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: ** (See Notes)
Project Number: 03E2057103 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.8073564,-103.7518694

ma/ka

Sample ID: FS 11 4' (H243444-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/17/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	42.5	10.0	06/17/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	46.1	10.0	06/17/2024	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024

Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: ** (See Notes) Sample Received By: Alyssa Parras Project Number: 03E2057103

Project Location: 32.8073564,-103.7518694

Sample ID: FS 12 4' (H243444-04)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.144	0.050	06/18/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	0.952	0.050	06/18/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	0.935	0.050	06/18/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	1.64	0.150	06/18/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	3.67	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	976	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.9	10.0	06/18/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	481	10.0	06/18/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	548	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024
Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: ** (See Notes)
Project Number: 03E2057103 Sample Received By: Alyssa Parras

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: FS 13 4' (H243444-05)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	.u Dy. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/17/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 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	512	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/17/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/17/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/17/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

Analyzed By: JH

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024
Reported: 06/19/2024 Sampling Type: Soil

Reported: 06/19/2024 Sampling Type: Soil
Project Name: MCA 146 Sampling Condition: ** (See Notes)

Project Number: 03E2057103 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.8073564,-103.7518694

ma/ka

Sample ID: FS 14 4' (H243444-06)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/17/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/18/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	313	10.0	06/18/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	278	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/13/2024 Sampling Date: 06/13/2024

Reported: 06/19/2024 Sampling Type: Soil MCA 146

Project Name: Sampling Condition: ** (See Notes) Sample Received By: Alyssa Parras Project Number: 03E2057103

Project Location: 32.8073564,-103.7518694

Sample ID: FS 21 4' (H243444-07)

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	06/17/2024	ND	1.96	97.8	2.00	1.74	
Toluene*	<0.050	0.050	06/17/2024	ND	1.97	98.4	2.00	1.41	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	1.88	93.8	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	5.84	97.3	6.00	1.19	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/17/2024	ND	199	99.4	200	1.73	
DRO >C10-C28*	<10.0	10.0	06/17/2024	ND	230	115	200	1.78	
EXT DRO >C28-C36	<10.0	10.0	06/17/2024	ND					
Surrogate: 1-Chlorooctane	99.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101 9	% 49.1-14	8						

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Celeg D. Freene



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. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	()	,						
Company Name: Ensolum, LLC	: Ensolum, LLC			BILL TO		AN	ANALYSIS REQUEST	EST
Project Manager:	" Aimee cole	10		P.O. #:		_	_	
Address: 3)22	National	Darks Hwy	7	Company: Ensolum				
city: Car Sk	Shed	State: NM	zip: 88220	Attn: Aimee Cole	0			
Phone #: 844	26EE 005 H	Fax #:		Address: 3/22 Nahan	nd salv			
Project #: 03	E2057103	Project Owner:	Maverick	city: Callsbad	_			
Project Name:	MCA 146			State: NMZip: 882	20			
Project Location:	: 32.80+35/	64		Phone #:				
Sampler Name:	Omay Ho	andy		Fax #:				
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING	ING	<u></u>		
1			S ER	\		Je		
Lab I.D.	Sample I.D.	Depth (feet)	RAB OR (C ONTAINER OUNDWAT STEWATEI IL JDGE	HER: ID/BASE: E/COOL HER:	STEX	TPH Chlori		
_	FS 09	I.	2	V 6/13/24	10:26 V	7		
2	ESIO	- <u>:</u>			6:25 0	1		
W	FSII				10:36	1		
H	FSIA	_			10:35 V	1		
N	FS 13				10:40 0	2		
5	FS 14				lion 9	6		
١	Fs 21	4	4	4	1:10	6		
7-								
PLEASE NOTE: Liability ar analyses. All claims includi service. In no event shall Confidence or successors arisis	LEASE NOTE: Liability and Damages. Cardinal's liability and clie malyses. All claims including those for negligence and any other or envice. In no event shall Cardinal be liable for incidental or conse- tentives.	ent's exclusive remedy for any cause whatsoever shall be de quental damages, including von the services hereunder by Cause of services hereunder by Cause the control of th	e remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid oeever shall be deemed walved unless made in writing and received by Cardinal within 30 days after ages, including without limitation, business interruptions, loss of use, or loss of profits incurred by foll hererunder by Cardinal repartiess of whether such claim is based in one any of the above stated rea	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved 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 initiation, business interruptions, loss or less, or loss of profits incruent subsidialities. Afterward reconsequence arising of of relabed to the performance of services bearening for for administrations, whether such daim is based inton any of the above stated featons or otherwise.	by the client for the completion of the applicable on, its subsidiaries, cons or otherwise.	a		
Relinquished By:	,	Date:	Received By:		Verbal Result: All Results are em	Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Email address:	Add'I Phone #: ide Email address:	
Relinquished By:	By:	Date:	Received By:		0			TO COMMING
9		Time:						7
Delivered By: (Circle One)		Observed Temp. °C	Sample Condition Cool Intact	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #1	1 2	Bacteria (only) S Cool Intact Yes Yes	ample Condition Observed Temp. °C
Sampler - UPS - Bus - Other:		Corrected Temp. C	Yes Wes	5	Correction Factor 4.5°C	で、仕り	□ No □ No 0	Corrected Temp. °C



June 18, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 14:49.

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

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date: 06/14/2024
Reported: 06/18/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.8073564,-103.7518694

Sample ID: SW 07 0-4 (H243471-01)

DTEV 0021D

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	06/14/2024	ND	2.00	100	2.00	0.552	
Toluene*	<0.050	0.050	06/14/2024	ND	1.98	98.9	2.00	0.457	
Ethylbenzene*	0.102	0.050	06/14/2024	ND	2.01	101	2.00	0.651	
Total Xylenes*	0.330	0.150	06/14/2024	ND	5.83	97.2	6.00	0.698	
Total BTEX	0.432	0.300	06/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 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	2880	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/14/2024	ND	185	92.5	200	2.28	
DRO >C10-C28*	234	10.0	06/14/2024	ND	180	90.2	200	2.72	
EXT DRO >C28-C36	36.4	10.0	06/14/2024	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	(575) 393-2326 FAX (575) 393-2476						
company Name: Ensolum, LLC			BILL TO		A	ANALYSIS REQUEST	-
roject Manager: ATMP & COLO	SIE	P.	P.O. #:	L			
address: 3/22 National Parks	Parks Huy		Company: [SOJUM, LLC	27			
ity: / 15 bad	State		Attn: ATMER COLE				
(Address:				
roject #: 03E2057/01	Project Owner:	C	City:		_		
Project Name: MLA 146		S	State: Zip:				
Project Location: 32,8073,	-103,7518	P	Phone #: 720-384-7365	65			
Sampler Name: Mario Sor Kit	えごろ	F	1		5		
0000		MATRIX	PRESERV. SAMPLING	G	<i>}e</i>		
Lab I.D. Sample I.D.	Depth (feet)	G)RAB OR (C)OMP CONTAINERS GROUNDWATER NASTEWATER GOIL DIL SLUDGE	ACID/BASE: CE / COOL OTHER:	BTEX	Chloric		
1 Swo7	0-4		<	56 V	6		
				7			
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			7	1			
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affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any or the above sales as Relinquished By: Received By:	ormance of services hereunder by Car	Received By:	based upon any or the above stated least	ılt:	☐ Yes ☐ No nailed. Please provi	Box	
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Delivered By: (Circle One)	Corrected Temp. °C	Sample Condition Cool Intact Ves Yes	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113	Rush 18/1/	Cool Intact Yes Yes No No	Observed Temp. °C Corrected Temp. °C
Sallible - OFG - Dus - Otilot.	College . e b .			-	•	NC NC	The second second



June 18, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/14/24 14:49.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



06/14/2024

Soil

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date: Reported: 06/18/2024 Sampling Type:

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Applyand By 14

Project Location: 32.8073564,-103.7518694

Sample ID: SW 05 0-4 (H243472-01)

DTEV 0021D

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	06/14/2024	ND	2.00	100	2.00	0.552	
Toluene*	0.068	0.050	06/14/2024	ND	1.98	98.9	2.00	0.457	
Ethylbenzene*	0.181	0.050	06/14/2024	ND	2.01	101	2.00	0.651	
Total Xylenes*	0.453	0.150	06/14/2024	ND	5.83	97.2	6.00	0.698	
Total BTEX	0.702	0.300	06/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.7	% 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	368	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/14/2024	ND	185	92.5	200	2.28	
DRO >C10-C28*	11.4	10.0	06/14/2024	ND	180	90.2	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey & Keene



06/14/2024

Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date:

Reported: 06/18/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Applyzod By: 14

Project Location: 32.8073564,-103.7518694

Sample ID: SW 06 0-6 (H243472-02)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	0.552	
Toluene*	<0.050	0.050	06/14/2024	ND	1.98	98.9	2.00	0.457	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.01	101	2.00	0.651	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.83	97.2	6.00	0.698	
Total BTEX	<0.300	0.300	06/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/14/2024	ND	185	92.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	180	90.2	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					
Surrogate: 1-Chlorooctane	95.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/18/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 15 4 (H243472-03)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/14/2024	ND	2.00	100	2.00	0.552	
Toluene*	<0.050	0.050	06/14/2024	ND	1.98	98.9	2.00	0.457	
Ethylbenzene*	<0.050	0.050	06/14/2024	ND	2.01	101	2.00	0.651	
Total Xylenes*	<0.150	0.150	06/14/2024	ND	5.83	97.2	6.00	0.698	
Total BTEX	<0.300	0.300	06/14/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/14/2024	ND	185	92.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	180	90.2	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Celeg & Freene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/18/2024 Sampling Type: Soil
Project Name: MCA 146 Sampling Condition: Cool & Intact

Project Number: 03E2057101 Sample Received By: Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 16 4 (H243472-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/17/2024	ND	2.08	104	2.00	0.854	
Toluene*	<0.050	0.050	06/17/2024	ND	2.21	111	2.00	0.484	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	2.21	110	2.00	0.347	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	6.75	112	6.00	1.04	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	944	16.0	06/17/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/15/2024	ND	185	92.5	200	2.28	
DRO >C10-C28*	<10.0	10.0	06/15/2024	ND	180	90.2	200	2.72	
EXT DRO >C28-C36	<10.0	10.0	06/15/2024	ND					
Surrogate: 1-Chlorooctane	115	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	18						

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/14/2024 Sampling Date: 06/14/2024

Reported: 06/18/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Alyssa Parras

Project Location: 32.8073564,-103.7518694

Sample ID: FS 17 4 (H243472-05)

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	06/17/2024	ND	2.08	104	2.00	0.854	
Toluene*	<0.050	0.050	06/17/2024	ND	2.21	111	2.00	0.484	
Ethylbenzene*	<0.050	0.050	06/17/2024	ND	2.21	110	2.00	0.347	
Total Xylenes*	<0.150	0.150	06/17/2024	ND	6.75	112	6.00	1.04	
Total BTEX	<0.300	0.300	06/17/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/17/2024	ND	432	108	400	3.64	
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	06/14/2024	ND	221	110	200	1.99	
DRO >C10-C28*	<10.0	10.0	06/14/2024	ND	233	116	200	1.14	
EXT DRO >C28-C36	<10.0	10.0	06/14/2024	ND					
Surrogate: 1-Chlorooctane	126	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CARDINAL Laboratories 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC			OL THIS	ANALYSIS REQUEST
Project Manager: Aimee Cole			P.O. #:	
Address: 3122 National Parks Hwy			Company: Ensolum, LL	
City: Carlsbad	State: NM	Zip: 88220	Attn: A TMER COLE	
Phone #: (720) 384-7365	Fax #:		Address:	
Project #: 03E2057/01	Project Owner:		City:	
Project Name: MCA 146			State: Zip:	
n: 32.6	103.7518		#:72	
9			Fax #:	
- 1		MATRIX	PRESERV. SAMPLING	_
		RS TER R		
Lab I.D. Sample I.D.	Depth (feet)	(G)RAB OR (C # CONTAINER GROUNDWAT WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	BTEX TPH Chlori
1 Swas	4-0	<	1 11/19/	1154 7 7 7
2 Sw06	0-6	C - 2	7	IRAH V V V
2 5315	7	2	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1827 / / /
41516	T	7	×)	1 / / 8ee
5 1517	4	C 1	V = 19	1339
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the nelyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable enrice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	client's exclusive remedy for an er cause whatsoever shall be d sequental damages, including	y claim arising whether based in contract of seemed waived unless made in writing and without limitation, business interruptions, lo	r fort, shall be limited to the amount paid by th received by Cardinal within 30 days after com, ss of use, or loss of profits incurred by client, i	e client for the policable tasks and the second of the applicable to subsidiaries,
Received By: Date: Received By: Received By:	Date:	Received By:	based upon any of the above stated reasons Ve	Suns orderwise. Verbal Result: ☐ Yes ☐ No Add'I Phone #: All Results are emailed. Please provide Fmail address:
Relinquished By:	Time:	Received By:	RE	BLOPERNSHUM, COM/MSERHISE ENSORUM.COM
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Corrected Temp. °C	Sample Condition Cool Intact Tyes Tyes	CHECKED BY: T	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C

Corrected Temp. °C



June 19, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/17/24 14:26.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2024 Sampling Date: 06/17/2024 Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact Project Number: 03E2057101 Sample Received By: Shalyn Rodriguez

Project Location: 32.8073564,-103.7518694

Sample ID: FS 18 6' (H243509-01)

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	06/18/2024	ND	1.80	90.2	2.00	9.11	
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.1	% 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	144	16.0	06/19/2024	ND	416	104	400	7.41	
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	06/18/2024	ND	207	103	200	2.81	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	217	108	200	0.405	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	132	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	137	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2024 Sampling Date: 06/17/2024

Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03E2057101 Shalyn Rodriguez

Project Location: 32.8073564,-103.7518694

Sample ID: FS 19 6' (H243509-02)

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	06/18/2024	ND	1.80	90.2	2.00	9.11	
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 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	864	16.0	06/19/2024	ND	416	104	400	7.41	
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	06/19/2024	ND	207	103	200	2.81	
DRO >C10-C28*	43.7	10.0	06/19/2024	ND	217	108	200	0.405	
EXT DRO >C28-C36	26.7	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2024 Sampling Date: 06/17/2024

Reported: 06/19/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: 32.8073564,-103.7518694

mg/kg

Sample ID: FS 20 6' (H243509-03)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.80	90.2	2.00	9.11	
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9	% 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	640	16.0	06/19/2024	ND	416	104	400	7.41	
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	06/18/2024	ND	207	103	200	2.81	
DRO >C10-C28*	<10.0	10.0	06/18/2024	ND	217	108	200	0.405	
EXT DRO >C28-C36	<10.0	10.0	06/18/2024	ND					
Surrogate: 1-Chlorooctane	125	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	139	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2024

ma/ka

Reported: 06/19/2024

Project Name: MCA 146
Project Number: 03E2057101

Project Location: 32.8073564,-103.7518694

Sampling Date: 06/17/2024

Sampling Type: Soil

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

Sample ID: FS 22 6' (H243509-04)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/18/2024	ND	1.80	90.2	2.00	9.11	
Toluene*	<0.050	0.050	06/18/2024	ND	1.82	91.1	2.00	6.57	
Ethylbenzene*	<0.050	0.050	06/18/2024	ND	1.89	94.3	2.00	4.36	
Total Xylenes*	<0.150	0.150	06/18/2024	ND	5.54	92.3	6.00	4.25	
Total BTEX	<0.300	0.300	06/18/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.5	% 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	496	16.0	06/19/2024	ND	416	104	400	7.41	
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	06/19/2024	ND	207	103	200	2.81	
DRO >C10-C28*	51.8	10.0	06/19/2024	ND	217	108	200	0.405	
EXT DRO >C28-C36	18.6	10.0	06/19/2024	ND					
Surrogate: 1-Chlorooctane	94.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117	% 49.1-14	8						

Applyzod By: 14

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Celey D. Keine



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Sampler - UPS - Bus - Other:

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 E/	FAX (575) 393-2476		
Company Name: Ensolum, LLC	er (or o) ood Erro	ANALYSIS ANALYSIS	YSIS REQUEST
Project Manager: Aimee Cole		P.O.#:	
Address: 3122 National Parks Hwy		Company: F/150/4M, LLC	
City: Carlsbad	State: NM Zip: 88220	Attn: ATMER LOPE	
Phone #: (720) 384-7365	Fax #:	Address:	
Project #: 03E2057101	Project Owner:	City:	
Project Name: MC+ 146		State: Zip:	
W	-103,7518	Phone #: 720 - 384-7365	
Sampler Name: Marie Sarih	3	Fax #:	
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 TIME BTEX TP // Chloride	
8154	-	V	
2 F519	10 /	0 1 113 0 0 0	
3 F520	6, 61	7 7 4111	
4 FS22	6, 61		
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Relinquished By: Relinquished By:	Date: Received By:	sult: □ Yes □ No Add are emailed. Please provide E 2(0.20\\$0\UM; C0M/ :	"I Phone #: mail address: MSas いうら色とからしんれんのM
Politicand But (Circle One)	Time:	CHECKED RV: Turnaround Times Standard	Racteria (only) Sample Condition

Observed Temp. °C Corrected Temp. °C



June 26, 2024

AIMEE COLE

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/20/24 13:45.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM, LLC AIMEE COLE 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 06/20/2024
Reported: 06/26/2024

 Project Name:
 MCA 146

 Project Number:
 03E2057103

 Project Location:
 32.8073, -103.7518

Sampling Date: 06/20/2024

Sampling Type: Soil

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

Sample ID: FS 07 6' (H243664-01)

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	06/25/2024	ND	2.05	102	2.00	1.31	
Toluene*	<0.050	0.050	06/25/2024	ND	2.14	107	2.00	1.43	
Ethylbenzene*	<0.050	0.050	06/25/2024	ND	2.11	106	2.00	1.19	
Total Xylenes*	<0.150	0.150	06/25/2024	ND	6.52	109	6.00	0.742	
Total BTEX	<0.300	0.300	06/25/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	6 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	448	16.0	06/21/2024	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	06/24/2024	ND	202	101	200	0.403	
DRO >C10-C28*	13.4	10.0	06/24/2024	ND	201	101	200	4.95	
EXT DRO >C28-C36	<10.0	10.0	06/24/2024	ND					
Surrogate: 1-Chlorooctane	110 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	6 49.1-14	8						

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Celey D. Keine



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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



celey, keerie@carumamass	Cardinal cannot accept verbal changes. Please email changes to celey keene@varuninaiaa	† Cardinal cannot acce	FURM-006 R 3.2 10/0//21
Correction Factor - 0.5°C - W. W. W. W. W. NO CONTECTED TOMES.	No No No Correction	Corrected Temp. °C	Sampler - UPS - Bus - Other:
Thermometer ID #443— # /	CHECKED BY:	Observed Temp. °C 49	Delivered By: (Circle One)
Standard Bacteria (only) S		Time:	
70.	By: REMARKS:	Date: Received By:	Relinquished By:
e pensolumion	MINORA SCHOOL QU	Timesous	may
re emailed. Please provi	By: Verbal Result: All Results are	Date:	affiliates or successors arising out of or related to the perform Relinguished By:
	analyses. All claims including those for negligence and any other cause whatsoever shall be determed waver unless interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, analyses. All claims including those for negligence and any other cause whatsoever shall be determed by the determinance of whether such claims is based upon any of the above stated reasons or otherwise.	other cause whatsoever shall be deemed waived united consequental damages, including without limitation, but	analyses. All claims including those for negligence and any senare in no event shall Cardinal be liable for incidental or
or the applicable	as EASE NOTE: I lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	nd client's exclusive remedy for any claim arising wheth	PI FACE NOTE: Liability and Damages. Cardinal's liability a
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	V 6/2014 9:08		For For
	SO OIL SL	# C	the 12/11/
BTE TPH Chle	UDGE THER: CID/BASE E / COOI	(feet) RAB OR ONTAIN OUNDW	Lab I.D. Sample I.D.
X 1	<u> </u>	ERS /ATER	
des	MATRIX PRESERV.		- 1
	Fax	n dy	Some
	Phone #:	1698154261-n	3
	State: NM Zip: 88220	,	2
	city: Cav (Sb	Project Owner: Mawerick	14300 30W
	Address: 312 Notional park		0111
	attn: Amee Cole		ss: SILL Noneman
	company: Ensolum	Paylis Huy	allager. Flyner
	P.O. #:	3	V. 00
	BILL TO		Company Name: Ensolum, LLC
ANALYSIS REQUEST		(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 F



June 24, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 06/18/24 13:46.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/18/2024 Sampling Date: 06/18/2024

Reported: 06/24/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057101 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: 32.8073564,-103.7518694

ma/ka

Sample ID: BF 01 (H243572-01)

DTEV 0021D

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	06/21/2024	ND	1.99	99.5	2.00	4.24	
Toluene*	<0.050	0.050	06/21/2024	ND	2.08	104	2.00	4.23	
Ethylbenzene*	<0.050	0.050	06/21/2024	ND	2.13	106	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/21/2024	ND	6.36	106	6.00	3.83	
Total BTEX	<0.300	0.300	06/21/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/20/2024	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2024	ND	175	87.7	200	3.70	
DRO >C10-C28*	<10.0	10.0	06/20/2024	ND	175	87.4	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	06/20/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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 whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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

Celeg D. Freene

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

Observed Temp

CHECKED BY:

Standard Rush

Bacteria (only) Sample Condition
Cool Intact Observed Temp. '
Yes Yes
No Corrected Temp.

Corrected Temp. °C Observed Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(0.0) 000 -0-0 .	10:01000 =:			The second secon			
Company Name: Ensolum, LLC	: Ensolum, LLC			BILLY TO		ANALYSIS	REQUEST	L
Project Manager: Aimee Cole	: Aimee Cole			P.O. #:				
Address: 3122 N	Address: 3122 National Parks Hwy			Company: En S/WM	. 177		7	_
City: Carlsbad		State: NM	Zip: 88220	Attn: A Mee cole				
Phone #: (720) 384-7365	84-7365	Fax #:		Address:				
Project #: 03E 2057/0	=2057101	Project Owner:		City:				
Project Name: MCA 14	MC A IVI			State: Zip:				
Project Location	W	-103.7518		Phone #: 720 - 384 - 7365	325			
Sampler Name:	MCAINE		100	Fax #:				
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		5		
Lab I.D.	Sample I.D.	Depth (feet)	OR (C)OMP. TAINERS IDWATER WATER E	ASE:	EX	hloride		
USEMA			# C	OT	TIME			
	10-19		6	1 6/8/19	1946 / 1			
						7		
PLEASE NOTE: Liability ar	d Damages. Cardinal's liability and c	lient's exclusive remedy for an	y claim arising whether based in contrac	PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	y the client for the			t
analyses. All claims including service. In no event shall Co	ng those for negligence and any other ardinal be liable for incidental or cons	r cause whatsoever shall be d sequental damages, including	y control arrang written was a control was eemed waived unless made in writing arrawithout limitation, business interruptions,	T-LEASE MVIE. Leaving and varinges, various a souncy and viers exclusive manages in a various and any other completion of the applicable analyses. All claims including those for negligence and any other causes whatever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use of profits incurred by client, its subsidiaries.	ompletion of the applicable nt, its subsidiaries,			
Relinguished By	ng out of or related to the performance.	Date:	Received By:	affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such dark is used upon any or the access was under resolute or whether such dark is used upon any or the access was under resolute or whether such dark is used upon any or the access was under resolute or whether such dark is used upon any or the access was under resolute or whether such dark is used upon any or the access was a final part of the performance of services here and access of whether such dark is used upon any or the access was a final part of the performance of services here and access of whether such dark is used upon any or the performance of services here and the performance of services here and the performance of services here and the performance of services here. The performance of services here are also access to the performance of services here are also access to the performance of services here.	Verbal Result: ☐ Yes	☐ No Add'I Phone #:	#	
1	1,	6/18/24)	-	All Results are emailed. P	All Results are emailed. Please provide Email address:	ess:	
11		11 34 W	Ŏ	MANA	0	im. com/msolk	ensolum.com/MsalkisQensolum.com	Ц
Relinquished By:	*	Date:	Received By:	7	KEMAKNO:			_

Thermometer ID Turnaround Time:



August 02, 2024

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 146

Enclosed are the results of analyses for samples received by the laboratory on 07/30/24 15:52.

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

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/30/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057103 Sample Received By: Shalyn Rodriguez

Project Location: 32.8073564,-103.7518694

Sample ID: BH 03 1 (H244541-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	10.9	
Toluene*	<0.050	0.050	07/31/2024	ND	2.40	120	2.00	12.3	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	12.6	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	7.53	125	6.00	12.3	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 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	32.0	16.0	08/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	190	94.9	200	3.44	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	183	91.5	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	86.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.0	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

ENSOLUM AIMEE COLE 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/30/2024 Sampling Date: 07/30/2024

Reported: 08/02/2024 Sampling Type: Soil

Project Name: MCA 146 Sampling Condition: Cool & Intact
Project Number: 03E2057103 Sample Received By: Shalyn Rodriguez

Applyzod By: 14

Project Location: 32.8073564,-103.7518694

ma/ka

Sample ID: BH 03 3 (H244541-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: ЈН					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/31/2024	ND	2.25	112	2.00	10.9	
Toluene*	<0.050	0.050	07/31/2024	ND	2.40	120	2.00	12.3	
Ethylbenzene*	<0.050	0.050	07/31/2024	ND	2.54	127	2.00	12.6	
Total Xylenes*	<0.150	0.150	07/31/2024	ND	7.53	125	6.00	12.3	
Total BTEX	<0.300	0.300	07/31/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/01/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/31/2024	ND	190	94.9	200	3.44	
DRO >C10-C28*	<10.0	10.0	07/31/2024	ND	183	91.5	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	07/31/2024	ND					
Surrogate: 1-Chlorooctane	96.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg & Frence



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476	Y (575) 393-2476		
Company Name: Ensolum, LLC		OF THIS	ANALYSIS REQUEST
roject Manager: Aimee Cole		P.O. #:	
ddress: 3122 National Parks Hwy		Company: PANSOINMILLC	prec
Sity: Carlsbad	State: NM Zip: 88220	Attn: Aimee Cole	
hone #: (720) 384-7365	Fax #:	Address:	
roject #: 03E 2057/03	Project Owner:	City:	
roject Name: MA 146		State: Zip:	
);;	32,8073564,-103,7618694	Phone #:	
		1	
		PRESERV. SAMPLING	NG
Lab I.D. Sample I.D.	(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	BTEX
DH03	1 61	7/30/24	<
2 BH03	3 61	1 7/2024	(2) &
LEASE NOTE: Liability and Damages. Cardinal's liability and cl nalyses. All claims including those for negligence and any other envice. In no event shall Cardinal be liable for incidental or cons	**************************************	ract or tort, shall be limited to the amount paid and received by Cardinal within 30 days after ns, loss of use, or loss of profits incurred by di-	y the client for the orphicable orepresentation orphicable orphicable orphicable orphicable orphica
iffliates or successors arising out of or related to the performance Relinquished By:	led By: Time: SSA SUCULUM	By:	Verbal Result: □ Yes □ No Add'l Phone #: All Results are emailed. Please provide Email address: $\Delta(O) \in \mathcal{Q}_{i} \otimes_{i} \otimes_{i$
Relinquisned by:	Time:		
Delivered By: (Circle One)	Observed Temp. °C Sample Condition Corrected Temp. °C Corrected Temp. °C	CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition Rush Cool Intact Observed Temp. °C Thermometer ID #415

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 370435

QUESTIONS

Operator:	OGRID:
Maverick Permian LLC	331199
, and the second	Action Number:
Houston, TX 77002	370435
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2321651067
Incident Name	NAPP2321651067 MCA UNIT #146 @ 30-025-00717
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-025-00717] MCA UNIT #146

Location of Release Source	
Please answer all the questions in this group.	
Site Name	MCA UNIT #146
Date Release Discovered	08/04/2023
Surface Owner	Federal

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Flow Line - Production Crude Oil Released: 1 BBL Recovered: 0 BBL Lost: 1 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Flow Line - Production Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	A flowline rupture resulted in the release of 1 bbl of oil and 10 bbls of produced water onto the facility pad. The release was constrained to the wellpad and did not flow off into the adjacent pasture.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

<u>District IV</u> 1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 370435

Phone:(505) 476-3470 Fax:(505) 476-3462	
QUEST	IONS (continued)
Operator: Maverick Permian LLC 1000 Main Street, Suite 2900 Houston, TX 77002	OGRID: 331199 Action Number: 370435 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. 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	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to	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: Aimee Cole Email: acole@ensolum.com Date: 08/05/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 370435

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	370435
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	Attached Document
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan		
Please answer all the questions that apply or are indicated. This information must be provided	d to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamina	ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	2880	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	1051	
GRO+DRO (EPA SW-846 Method 8015M)	503	
BTEX (EPA SW-846 Method 8021B or 8260B)	15	
Benzene (EPA SW-846 Method 8021B or 8260B)	0.1	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes compl which includes the anticipated timelines for beginning and completing the remediation.	leted 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	05/29/2024	
On what date will (or did) the final sampling or liner inspection occur	06/17/2024	
On what date will (or was) the remediation complete(d)	06/17/2024	
What is the estimated surface area (in square feet) that will be reclaimed	4400	
What is the estimated volume (in cubic yards) that will be reclaimed	1250	
What is the estimated surface area (in square feet) that will be remediated	4400	
What is the estimated volume (in cubic yards) that will be remediated	1250	
These estimated dates and measurements are recognized to be the best guess or calculation a	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.	
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	d 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.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 **District III**

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Energy, Minerals and Natural Resources
Oil Conservation Division
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Santa Fe, NM 87505

QUESTIONS, Page 4

Action 370435

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

January 1980		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 ARTESIA LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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

Name: Aimee Cole
I hereby agree and sign off to the above statement
Email: acole@ensolum.com

Date: 08/05/2024

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

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Action 370435

QUESTIONS (continued)

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	370435
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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Action 370435

QUESTIONS (continued)

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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	368289
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
What was the (estimated) number of samples that were to be gathered	3
What was the sampling surface area in square feet	600

Remediation Closure Request			
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			
Requesting a remediation closure approval with this submission	Yes		
Have the lateral and vertical extents of contamination been fully delineated	Yes		
Was this release entirely contained within a lined containment area	No		
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes		
What was the total surface area (in square feet) remediated	4400		
What was the total volume (cubic yards) remediated	1250		
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes		
What was the total surface area (in square feet) reclaimed	4400		
What was the total volume (in cubic yards) reclaimed	1250		
Summarize any additional remediation activities not included by answers (above)	See attached Closure Request for details regarding remediation activities and soil sample results.		

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Name: Aimee Cole
I hereby agree and sign off to the above statement
Email: acole@ensolum.com
Date: 08/05/2024

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Action 370435

QUESTIONS (continued)

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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 370435

CONDITIONS

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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	8/5/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/5/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/5/2024