

September 12, 2023

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 351

Incident Number NAPP2302034681

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the MCA 351 (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 NAPP2302034681.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit G, Section 26, Township 17 South, Range 32 East, in Lea County, New Mexico (32.80821° N, -103.73417° W) and is associated with oil and gas exploration and production operations on State Land managed by the New Mexico State Land Office (NMSLO).

On January 2, 2023, corrosion of a surface steel flow line resulted in the release of approximately 1.33 barrels (bbls) of crude oil and 7.81 bbls of produced water onto the surrounding pasture. No released fluids were recovered; however, a scrape of the saturated soil was completed during the initial spill response activities. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on January 16, 2023. The release was assigned Incident Number NAPP2302034681.

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 desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. 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 northwest of the Site on March 23, 2020. The borehole was drilled during remediation activities

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associated with Incident Number NJXK1621825385 (closure was approved by NMOCD on October 26, 2022). The borehole was advanced to a depth of 60 bgs via air rotary drilling rig, and no groundwater was encountered. The boring log is included in Appendix A. The location of the 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

On March 17, 2023, Ensolum personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. An initial scrape of the saturated soil had been completed during spill response activities. Ensolum collected four assessment soil samples (SS01 through SS04) around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of 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 Eurofins 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 300.0.

Laboratory analytical results for assessment soil samples SS01 through SS04, collected around the release extent, indicated that all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the lateral extent of the release.



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EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between August 3, 2023 and August 10, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil resulting from the January 2, 2023 release. 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 utilizing a 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 FS13, and FS11A were collected from the floor of the excavation at depths ranging from 4 feet to 6 feet bgs. Composite soil samples SW01 through SW09, and SW03A were collected from the sidewalls of the excavation at depths ranging from the ground surface to 5 feet bgs.

One pothole (PH01) was advanced within the open excavation to a depth of 11 feet bgs. Soil from the pothole was field screened at 1-foot intervals for VOCs and chloride. Final depth of the pothole was determined by field screening results indicating compliance with the most stringent Table I Closure Criteria. Field screening results and observations for the pothole were logged on a lithologic soil sampling log, which is included in Appendix C. Based on the field screening results, discrete delineation soil samples PH01B and PH01F, collected at depths of 7 feet and 11 feet bgs, were selected for laboratory analysis. 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. The excavation extent and soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01 through FS10, FS11A, FS12, FS13 and excavation sidewall samples SW01, SW02, SW03A, and SW04 through SW09, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements for samples collected from the top four feet. Laboratory analytical results for excavation samples FS11 and SW03 initially exceeded the reclamation requirement for TPH or chloride; additional soil was removed from these areas and subsequent sidewall samples FS11A and SW03A were compliant.

Laboratory analytical results for pothole delineation samples PH01B and PH01F indicated all COC concentrations were compliant with the Site Closure Criteria. Additionally, delineation sample PH01F, collected at 11 feet bgs, was compliant with the most stringent Table I Closure Criteria and provided vertical delineation of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix D.

The excavation measured approximately 2,600 square feet in areal extent. A total of approximately 780 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.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the January 2, 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



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Closure Criteria and reclamation requirements, where applicable. Additionally, the release was laterally and vertically delineated to below the most stringent Table I Closure Criteria. Based on the laboratory analytical results, no further remediation is required. Maverick backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been determined to be greater than 60 feet bgs within 0.5 miles of 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 NAPP2302034681. NMOCD notifications are included in Appendix E and the final Form C-141 is included in Appendix F. A reclamation plan for NMSLO review is included as Appendix G.

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

Sincerely, **Ensolum, LLC**

Aimee Cole

Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

New Mexico State Land Office

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment Soil Sample Locations

Figure 3 Excavation and Delineation Soil Sample Locations

Table 1 Soil Sample Analytical Results

Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic/Soil Sampling Log

Appendix D Laboratory Analytical Reports & Chain of Custody Documentation

Appendix E NMOCD Notifications

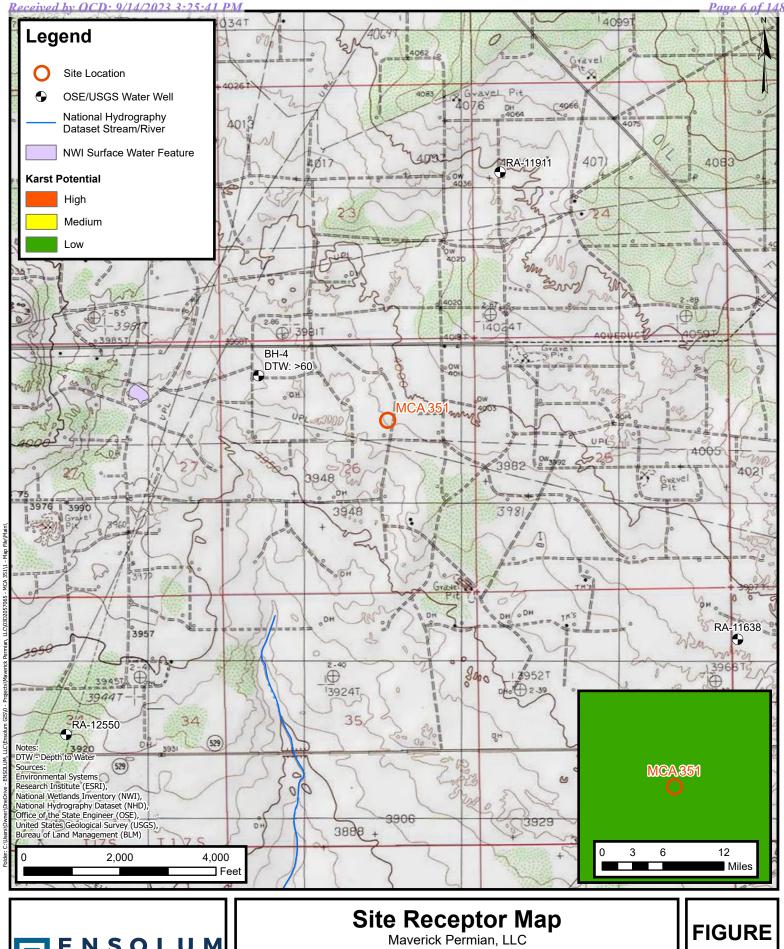
Appendix F Final C-141

Appendix G NMSLO Reclamation Plan



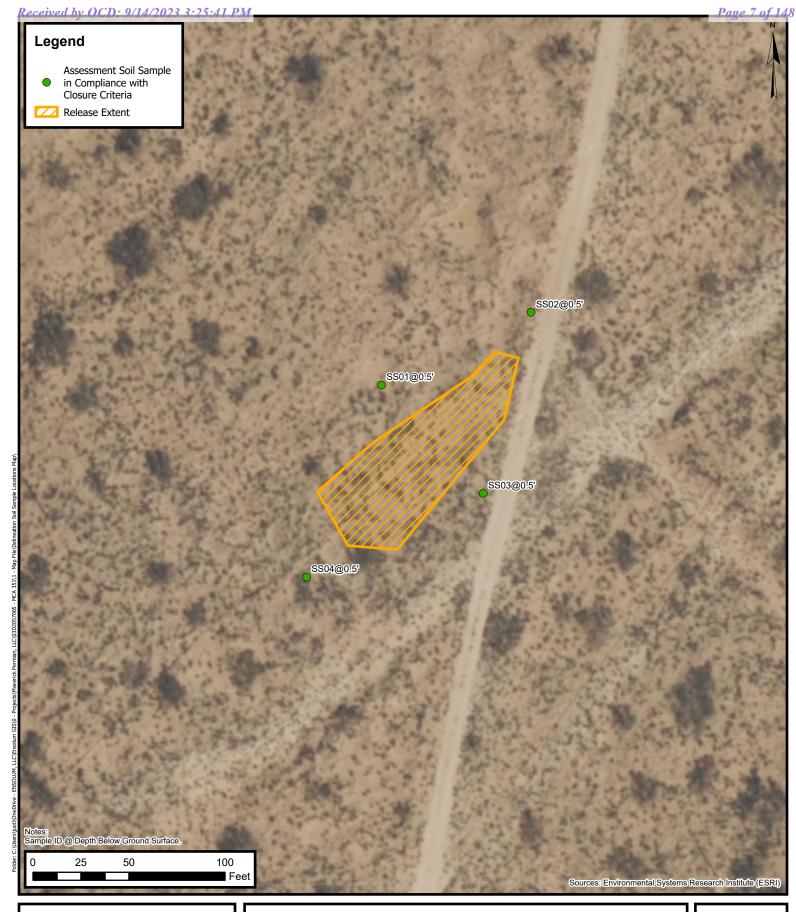


FIGURES





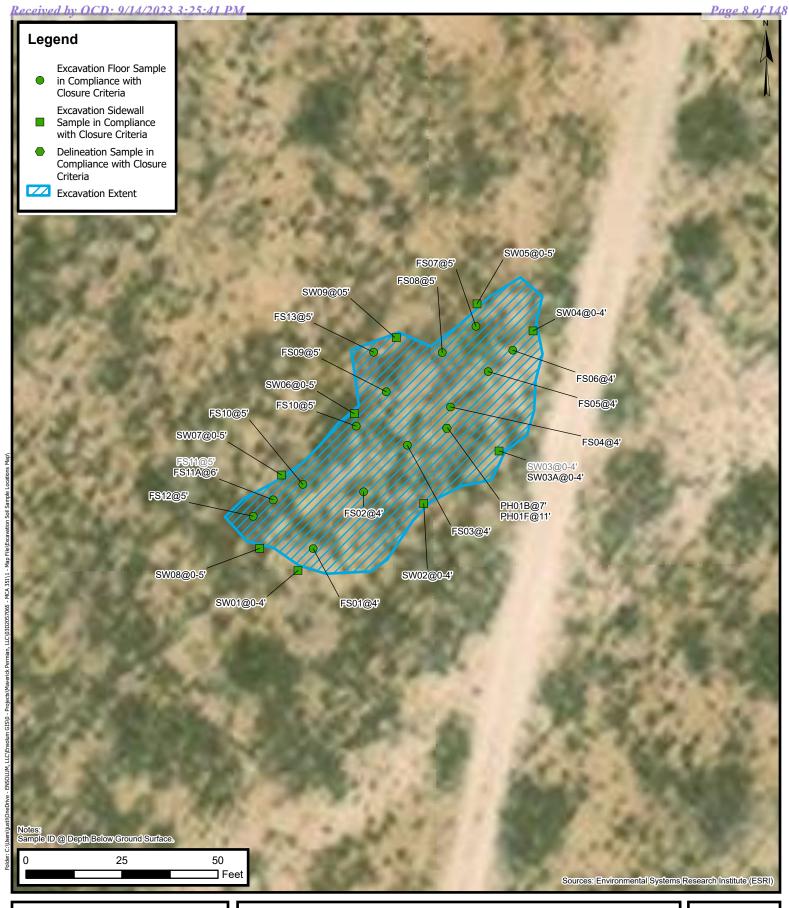
MCA 351 Incident Number: NAPP2302034681 Unit G, Sec 26, T17S, 32E Lea County, New Mexico





Assessment Soil Sample Locations

Maverick Permian, LLC MCA 351 Incident Number: NAPP2302034681 Unit G, Sec 26, T17S, 32E Lea County, New Mexico FIGURE 2





Excavation and Delineation Soil Sample Locations

Maverick Permian, LLC MCA 351 Incident Number: NAPP2302034681 Unit G, Sec 26, T17S, 32E Lea County, New Mexico FIGURE 3

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TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 351

Maverick Permian, LLC

				Lea	County, New Me	xico						
Sample Designation	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 Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000		
				Asse	essment Soil San	nples						
SS01	8/18/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
SS02	3/17/2023	0.5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	51.1		
SS03	3/17/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	71.8		
SS04	3/17/2023	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	77.3		
Excavation Floor Soil Samples												
FS01	8/3/2023	4	<0.050	<0.300	<10.0	11.0	<10.0	11.0	11.0	32.0		
FS02	8/3/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	7,360		
FS03	8/3/2023	4	<0.050	<0.300	<10.0	116	22.9	116	138.9	1,180		
FS04	8/3/2023	4	<0.050	<0.300	<10.0	107	41.4	107	148.4	1,200		
FS05	8/3/2023	4	<0.050	<0.300	<10.0	469	124	469	593	656		
FS06	8/3/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	256		
FS07	8/3/2023	5	<0.050	<0.300	<10.0	130	35.6	130	165.6	208		
FS08	8/3/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0		
FS09	8/3/2023	5	<0.050	<0.300	<10.0	17.3	<10.0	17.3	17.3	5,440		
FS10	8/3/2023	5	<0.050	<0.300	<10.0	181	44.9	181	225.9	4,800		
FS11	8/3/2023	5	<0.050	<0.300	<10.0	503	151	503	654	10,000		
FS11A	8/10/2023	6	<0.050	<0.300	<10.0	369	75.1	369	444	448		
FS12	8/3/2023	5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	912		
FS13	8/3/2023	5	<0.050	<0.300	<10.0	95.0	29.1	95.0	124.1	1,200		

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TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** MCA 351

Maverick Permian, LLC

Sample Designation	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 Table 1	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000			
	Excavation Sidewall Soil Samples												
SW01*	8/3/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SW02*	8/3/2023	0-4	<0.050	<0.300	<10.0	21.4	<10.0	21.4	21.4	64.0			
SW03*	8/3/2023	0-4	<0.050	<0.300	<10.0	194	44	194	238	16.0			
SW03A*	8/10/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
SW04*	8/3/2023	0-4	<0.050	<0.300	<10.0	25.5	<10.0	25.5	25.5	32.0			
SW05*	8/3/2023	0-5	<0.050	<0.300	<10.0	17.2	<10.0	17.2	17.2	32.0			
SW06*	8/3/2023	0-5	<0.050	<0.300	<10.0	25.7	<10.0	25.7	25.7	16.0			
SW07*	8/3/2023	0-5	<0.050	<0.300	<10.0	14.3	<10.0	14.3	14.3	16.0			
SW08*	8/3/2023	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0			
SW09*	8/3/2023	0-5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0			
				Deli	neation Soil Sam	ıples							
PH01B	8/10/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	1,120			
PH01F	8/10/2023	11	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32			

Notes:

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

NMOCD: New Mexico Oil Conservation Division BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

TPH: Total Petroleum Hydrocarbon

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

Concentrations in **bold** exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

Grey text represents samples that have been excavated

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

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APPENDIX A

Referenced Well Records

212	212C-MD-02067 TETRA TECH						1		Page 1 of 3							
Proje	ect N	lam	e: MC	A 123 li	njec	tion I	Line	Rele	ase							•
Bore	hole	Lo	cation:	GPS: 32	2.810)847°	, - 10	3.743	217°			Surface Elevation	n: 3973 ft			
Bore	hole	. Nu	mber:	BH-4						E	Boreh Diame	ole eter (in.):	8 Date Started: 3/23/2020 Date Finished			
	DEX						WATER LEVEL OBSERVATIO		Ā D	PRY_ft						
DEPTH (ft)	OPERATION TYPE	SAMPLE	CHLORIDE FIELD SCREENING (ppm)	VOC FIELD SCREENING (ppm)	SAMPLE RECOVERY (%)	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	F LIQUID LIMIT	PLASTICITY INDEX	MINUS NO. 200 (%)	GRAPHIC LOG	MATERIAL DESCRIPTION			DEPTH (ft)	REMARKS
	127	M	208	1.6								-SM- SILTY odor, with no	SAND; Brown, dense, dry, with n	0		BH-4 (0'-1')
-	$ \rangle\rangle$											Odor, with no	staining.		-	,
-	$ \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- SILTY with no staini	SAND; Tan, dense, dry, with no d		_	BH-4 (4'-5')
	$\left \right\rangle \left\langle \right $												9.		_	
-	$\langle \rangle$	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')
	$\langle \langle \rangle \rangle$															
	$\langle \langle$															
-	$\langle \langle$															
	$\langle \langle$														14	
15	$\langle \langle$	M	9.45	3.1								-SM- SILTY no odor, with	SAND; Light brown, dense, dry, v	with		BH-4 (14'-15')
	$\langle \langle$:				
-	$\langle \langle$														_	
-	$\langle \langle$															
-	$\langle \langle$														_	
20	$\langle \langle$	M	3.75	3.2											_	BH-4 (19'-20')
	$\langle \langle$														-	
-	$\langle \langle$														_	
-	$\langle \langle$														_	
-	$\langle \langle$														-	
25	$\langle \langle \rangle \rangle$	M	2.81	1.4											_	BH-4 (24'-25')
_	Sampler Types: Split Spoon Shelby Vane Shear Shelby Sample California Sample Test Pit		Mud Rota	ary itinuou ht Aug sh		Air Rotary Ar	otes: nalytical samples are shown in the urface elevation is an estimated v	e "Remar alue.	rks" d	column.						

212C-MD-02067	TE TETRA	TECH	LOG OF BORING BH-4	Page 2 of 3
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 (%)	Mark Mark	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 Types: Split Spoon Shelby Vane Shear Shelby Sample California Sample Test Pit Operation Types: Mud Rotary Flight Auger Wash Rotary 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 TETRA T		LOG OF BORING BH-4 Pag 3 of								
Project Name: MCA 123 Injection Lin	ne Release	'								
Borehole Location: GPS: 32.810847°, -	103.743217°	Surface Elevation: 3973 ft								
Borehole Number: BH-4	Borel Diam	nole eter (in.): 8 Date Started: 3/23/2020 Date Finished	: 3/23/2020							
LD ppm) spm) ERY (%)	ă X	WATER LEVEL OBSERVATIONS While Drilling □ DRY ft Upon Completion of Drilling Remarks:	RY_ft							
DEPTH (ft) OPERATION TYPE SAMPLE CHLORIDE FIELD SCREENING (ppm) COC FIELD SCREENING (ppm) SAMPLE RECOVERY (%) MOISTURE CONTENT (%)	DRY DENSITY (pd) LIQUID LIMIT PLASTICITY INDEX MINUS NO. 200 (%)	MATERIAL DESCRIPTION (£) H G D D D D D D D D D D D D	REMARKS							
55 		Bottom of borehole at 60.0 feet.	BH-4 (59'-60')							
Bottom of borehole at 60.0 feet.										
Spoon Shelby Vane Shear Bulk Sample Grab Sample Test Pit Logger: Devin Dominguez	Types: Mud Rotary Continuous Flight Auger Wash Rotary Drilling Equipment: A	Air Rotary Air Rotary Direct Push Core Barrel Analytical samples are shown in the "Remarks" of Surface elevation is an estimated value.	olumn.							



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log Maverick Permian. LLC MCA 351 NAPP2302034681





Photograph 1 Description: Initial release

1/2/2023 Photograph 2

Date:

1/3/2023

View: North

Description: Release area after initial surface scrape





Photograph 3

Date:

8/2/2023 Photograph 4

Date:

8/3/2023

Description: Excavation activities

Description: Completed excavation View: South

View: Northwest



APPENDIX C

Lithologic Soil Sampling Logs

								Sample Name: PH01	Date: 8/10/23
								Site Name: MCA 351	Date: 6/10/23
		: N		5 (JL	. U	M	Incident Number: NAPP23020346	581
								Job Number: 03D2057065	561
		<u> </u>		COIL CAL	ADLING I	00			Mark of Tourists
G					MPLING L	Logged By: Ronni Hayes	Method: Trackhoe Total Depth: 11 ft bgs		
	nates: 32.8081				VCI Chlanid	I DID f	Hole Diameter: ~3'		
	:4 dilution fact							or chloride and vapor, respectively	. Chioride test performed
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	scriptions
						1 2 3		Excavation	
D D	2,441.6	3.8 4.5	N N	PH01A	- 6 ₋ 7 ₋	6	SP SP	SAND, poorly graded grave abundant limestone gravel strong odor	el with sand, l, white-tan color,
D	1,204	2.2	N	PH01C	8 _	8	SP	SAA, slight odor	
D	1,114.4	0.3	N	PH01D	9 -	9	SP	SAND, poorly graded grave limestone gravel, white col	
D	806	0.4	N	PH01E	10	10	SP	SAA	
D	397.6	0.1	N	PH01F	11 _	11	SP	SAA	
								TD at 11 ft bgs	



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

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JOB DESCRIPTION

Maverick MCA 351 SDG NUMBER Lea County NM

JOB NUMBER

890-4358-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization

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

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

Client: Ensolum
Project/Site: Maverick MCA 351
Laboratory Job ID: 890-4358-1
SDG: Lea County NM

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10

1 2

13

14

Definitions/Glossary

Job ID: 890-4358-1 Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Qualifiers

GC VOA Qualifier

F1 MS and/or MSD recovery exceeds control limits.

Qualifier Description F2 MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased. Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report. Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery

CFL Contains Free Liquid CFU Colony Forming Unit **CNF** Contains No Free Liquid

DFR Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) TEQ

TNTC Too Numerous To Count

Case Narrative

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4358-1

SDG: Lea County NM

Job ID: 890-4358-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4358-1

Receipt

The sample was received on 3/20/2023 9:01 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS02 (890-4358-1).

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-49613 and analytical batch 880-49785 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

GC Semi VOA

Method 8015MOD NM: Surrogate recovery for the following sample was outside control limits: (890-4352-A-1-A). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: SS02 (890-4358-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

HPLC/IC

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

Eurofins Carlsbad 4/3/2023

Client Sample Results

Client: Ensolum Job ID: 890-4358-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Lab Sample ID: 890-4358-1 **Client Sample ID: SS02** Matrix: Solid

Date Collected: 03/17/23 11:50 Date Received: 03/20/23 09:01

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/27/23 11:12	03/29/23 19:31	
Toluene	<0.00201	U	0.00201	mg/Kg		03/27/23 11:12	03/29/23 19:31	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/27/23 11:12	03/29/23 19:31	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/27/23 11:12	03/29/23 19:31	
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/27/23 11:12	03/29/23 19:31	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/27/23 11:12	03/29/23 19:31	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	102		70 - 130			03/27/23 11:12	03/29/23 19:31	
1,4-Difluorobenzene (Surr)	78		70 - 130			03/27/23 11:12	03/29/23 19:31	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/30/23 13:19	
Method: SW846 8015 NM - Diese Analyte Total TPH		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/27/23 11:30	Dil Fa
	<49.9	U	49.9	mg/kg			03/2//23 11:30	
Method: SW846 8015B NM - Dies	el Range Orga	nics (DRO)	(GC)					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 19:07	•
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 19:07	,
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/23 16:46	03/26/23 19:07	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	170	S1+	70 - 130			03/24/23 16:46	03/26/23 19:07	
o-Terphenyl	162	S1+	70 - 130			03/24/23 16:46	03/26/23 19:07	
Method: EPA 300.0 - Anions, Ion	• •	•						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	51.1		5.00	mg/Kg			04/01/23 00:16	

Surrogate Summary

Client: Ensolum Job ID: 890-4358-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4344-A-1-B MS	Matrix Spike	88	118	
890-4344-A-1-C MSD	Matrix Spike Duplicate	106	105	
890-4358-1	SS02	102	78	
LCS 880-49613/1-A	Lab Control Sample	106	108	
LCSD 880-49613/2-A	Lab Control Sample Dup	102	113	
MB 880-49613/5-A	Method Blank	74	82	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-4352-A-1-B MS	Matrix Spike	79	76
890-4358-1	SS02	170 S1+	162 S1+
LCS 880-49456/2-A	Lab Control Sample	77	83
LCSD 880-49456/3-A	Lab Control Sample Dup	76	85
MB 880-49456/1-A	Method Blank	107	111

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-4358-1 Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49613/5-A

Matrix: Solid

Analysis Batch: 49785

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49613

MB	MB	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/27/23 11:12	03/29/23 11:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/27/23 11:12	03/29/23 11:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/27/23 11:12	03/29/23 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/27/23 11:12	03/29/23 11:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/27/23 11:12	03/29/23 11:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/27/23 11:12	03/29/23 11:58	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	74		70 - 130	03/27/23 11:12	03/29/23 11:58	1
1,4-Difluorobenzene (Surr)	82		70 - 130	03/27/23 11:12	03/29/23 11:58	1

Lab Sample ID: LCS 880-49613/1-A

Matrix: Solid

Analysis Batch: 49785

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49613

	Spike	LCS	LUS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1046		mg/Kg		105	70 - 130	
Toluene	0.100	0.09913		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.09684		mg/Kg		97	70 - 130	
m-Xylene & p-Xylene	0.200	0.2063		mg/Kg		103	70 - 130	
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifie	r Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-49613/2-A

Matrix: Solid

Analysis Batch: 49785

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49613

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1045		mg/Kg		105	70 - 130	0	35	
Toluene	0.100	0.08648		mg/Kg		86	70 - 130	14	35	
Ethylbenzene	0.100	0.07737		mg/Kg		77	70 - 130	22	35	
m-Xylene & p-Xylene	0.200	0.1550		mg/Kg		77	70 - 130	28	35	
o-Xylene	0.100	0.07896		mg/Kg		79	70 - 130	27	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	102	70 - 130
1,4-Difluorobenzene (Surr)	113	70 - 130

Lab Sample ID: 890-4344-A-1-B MS

Matrix: Solid

Analysis Batch: 49785

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

Prep Batch: 49613

MS MS Sample Sample Spike %Rec Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits 70 - 130 <0.00199 U 0.0998 91 Benzene 0.09065 mg/Kg Toluene <0.00199 UF1 0.0998 0.06630 F1 mg/Kg 66 70 - 130

Prep Batch: 49613

QC Sample Results

Client: Ensolum Job ID: 890-4358-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 890-4344-A-1-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 49785

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00199	U F1 F2	0.0998	0.05617	F1	mg/Kg		56	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F1 F2	0.200	0.1087	F1	mg/Kg		54	70 - 130	
o-Xylene	<0.00199	U F1 F2	0.0998	0.05628	F1	mg/Kg		56	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	· Limits
4-Bromofluorobenzene (Surr)	88	70 - 130
1,4-Difluorobenzene (Surr)	118	70 - 130

Lab Sample ID: 890-4344-A-1-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 49

									Prep	Type: To	tal/NA	
9785									Pre	Batch:	49613	
	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	

Analyte Benzene <0.00199 U 0.0990 0.09456 mg/Kg 70 - 130 35 Toluene <0.00199 UF1 0.0990 0.08943 mg/Kg 90 70 - 130 30 35 Ethylbenzene 0.0990 0.08761 F2 88 70 - 130 35 <0.00199 U F1 F2 mg/Kg 44 <0.00398 UF1F2 0.198 70 - 130 m-Xylene & p-Xylene 0.1814 F2 mg/Kg 92 50 35 0.0990 <0.00199 U F1 F2 0.09115 F2 92 70 - 130 o-Xylene mg/Kg 47

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-49456/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 49456

Analysis Batch: 49514

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics 03/24/23 16:46 03/26/23 08:27 <50.0 U 50.0 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 03/26/23 08:27 <50.0 U 50.0 03/24/23 16:46 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/24/23 16:46 03/26/23 08:27 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/24/23 16:46	03/26/23 08:27	1
o-Terphenyl	111		70 - 130	03/24/23 16:46	03/26/23 08:27	1

Lab Sample ID: LCS 880-49456/2-A **Matrix: Solid**

Analysis Batch: 49514							Prep	Prep Batch: 49456	
	Spike	LCS	LCS				%Rec		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	1000	882.5		mg/Kg		88	70 - 130		
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	790.5		mg/Kg		79	70 - 130		
C10-C28)									

Eurofins Carlsbad

Prep Type: Total/NA

Client Sample ID: Lab Control Sample

Released to Imaging: 1/12/2024 10:16:06 AM

Job ID: 890-4358-1

Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Limits

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

%Recovery Qualifier

Lab Sample ID: LCS 880-49456/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Surrogate

Analysis Batch: 49514

Prep Type: Total/NA

Prep Batch: 49456

1-Chlorooctane 77 70 - 130 o-Terphenyl 83 70 - 130

Lab Sample ID: LCSD 880-49456/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 49514

Prep Type: Total/NA

Prep Batch: 49456

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 935.9 94 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 802.7 80 mg/Kg 70 - 1302 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-4352-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 49514

Prep Type: Total/NA

Prep Batch: 49456

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 998 831.5 mg/Kg 79 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 998 797.6 mg/Kg 80 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 79 70 - 130 o-Terphenyl 76

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49881/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50038

мв мв Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/31/23 22:20

Lab Sample ID: LCS 880-49881/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50038

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.2		mg/Kg		105	90 - 110	

QC Sample Results

Client: Ensolum Job ID: 890-4358-1 Project/Site: Maverick MCA 351

SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-49881/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50038

Analysis Batch: 50038

	Spike	LCSD	LUSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	263.2		mg/Kg		105	90 - 110	0	20	

Lab Sample ID: 890-4352-A-11-D MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Soluble

Sample Sample Spike MS MS %Rec Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 33.6 252 285.7 mg/Kg 100 90 - 110

Lab Sample ID: 890-4352-A-11-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 50038

MSD MSD %Rec RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 33.6 252 285.7 100 90 - 110 mg/Kg

QC Association Summary

Client: Ensolum

Job ID: 890-4358-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

GC VOA

Prep Batch: 49613

Lab Sample ID 890-4358-1	Client Sample ID SS02	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
MB 880-49613/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49613/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49613/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-4344-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-4344-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Total/NA	Solid	8021B	49613
MB 880-49613/5-A	Method Blank	Total/NA	Solid	8021B	49613
LCS 880-49613/1-A	Lab Control Sample	Total/NA	Solid	8021B	49613
LCSD 880-49613/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49613
890-4344-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	49613
890-4344-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49613

Analysis Batch: 49949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49456

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Total/NA	Solid	8015NM Prep	
MB 880-49456/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49456/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49456/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4352-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49514

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Total/NA	Solid	8015B NM	49456
MB 880-49456/1-A	Method Blank	Total/NA	Solid	8015B NM	49456
LCS 880-49456/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49456
LCSD 880-49456/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49456
890-4352-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49456

Analysis Batch: 49620

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Soluble	Solid	DI Leach	Frep Batch
MB 880-49881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum

Project/Site: Maverick MCA 351

SDG: Lea County NM

HPLC/IC

Analysis Batch: 50038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4358-1	SS02	Soluble	Solid	300.0	49881
MB 880-49881/1-A	Method Blank	Soluble	Solid	300.0	49881
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	300.0	49881
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49881
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	49881
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49881

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Lab Chronicle

Client: Ensolum Job ID: 890-4358-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Client Sample ID: SS02

Lab Sample ID: 890-4358-1

Matrix: Solid

Date Collected: 03/17/23 11:50 Date Received: 03/20/23 09:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49613	03/27/23 11:12	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49785	03/29/23 19:31	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49949	03/30/23 13:19	SM	EET MID
Total/NA	Analysis	8015 NM		1			49620	03/27/23 11:30	SM	EET MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	49456	03/24/23 16:46	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49514	03/26/23 19:07	SM	EET MID
Soluble	Leach	DI Leach			5 g	50 mL	49881	03/29/23 16:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50038	04/01/23 00:16	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Carlsbad

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Accreditation/Certification Summary

Client: Ensolum Job ID: 890-4358-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	are included in this report, bu	it the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for y
the agency does not of	fer certification.	•	, , ,	.,
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	.,
0 ,		Matrix Solid	, , ,	

Method Summary

Client: Ensolum

Method

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

8021B

Project/Site: Maverick MCA 351

Job ID: 890-4358-1

SDG: Lea County NM

Protocol	Laboratory
PIOLOCOI	Laboratory
SW846	EET MID
TAL SOP	EET MID
SW846	EET MID
SW846	EET MID
EPA	EET MID
SW846	EET MID

EET MID

EET MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

Microextraction

Method Description

Total BTEX Calculation

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4358-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4358-1	SS02	Solid	03/17/23 11:50	03/20/23 09:01	0.5'

Received by OCD: 9/14/2023 3:25:41

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Environment Testing

Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work	Order	No:		
AAOIK	Oluci	140.	 	

Project Manager:	Kalei	Jennings				Bill to: (if	different)		Kalei	Jennir	gs									W	ork O	rder	Comment	s	
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City, State ZIP:	-	nd, TX 79				City, Sta			Midla	nd, TX	79701						Repo	rting: I	evel II	Le	vel III	☐ PS	T/UST 📗	TRRP 🗌	Level IV
Phone:		83-2503			Email:	kjennin		solun	n.com.	dnika	anoro	@ens	solum.	com			Deliv	erable	s: EDE			ADaP	т 🗆 (Other:	
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Project Number:			205706			1 1103		Code															Cool: Coo	i M	eOH: Me
Project Location:	ļ		Ounty, I		Due Date: TAT starts th	o day road	hived by											İ					HCL: HC		NO ₃ : HN
Sampler's Name: PO #:		Dinitry	TVIKAIIC	JIOV	the lab, if re			(n				-	11	18188 111	1848/1840)		LEURAN UIVAU AUG				H ₂ SO ₄ : H ₂ NaOH: Na		aOH: Na	
SAMPLE RECE	PT	Temp B	llank:	yes) No	Wet Ice:	Yes	No	meters					- 11										H₃PO₄: HI	Р	
Samples Received I	-	7-1	No.	Thermometer		TOM	- 00		0.00				- 111										NaHSO ₄ :	NABIS	
Cooler Custody Sea	-	Yes No	-	Correction Fa		2	1.7	Para	A:3	İ			80										Na ₂ S ₂ O ₃ :	NaSO ₃	
Sample Custody Sea	als:	Yes No	NA	Temperature	Reading:	2	· à		E G				- 09	0-435	8 Cha	in of	Custo	dy					Zn Acetat		
Total Containers:				Corrected Te	mperature:	2	0		e e	15)	(8021						1	1)	NaOH+As	scorbic Ac	id SAPC
Sample Idea	ntificati	ion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	CHLORIDES (EPA: 300.0)	TPH (8015)	втех (San	nple Con	nments
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Notice: Signature of this of service. Eurofins Xen of Eurofins Xenco. A min	مط النب م	Liable only f	or the cos	t of camples and	shall not assur	e any rest	onsibility	for any	losses	or expe	nses in	curred b	v the cli	ent if s	uch loss	es are	due to	circums	tances t	peyond	tne con	itroi			
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Midland TX 79701

Euroins Midiand 1211 W Florida Ave

Chain of Custody Record



🐝 eurofins

Environment Testing

4/3/2023

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Released to Imaging: 1/12/2024 10:16:06 AM

Phone 432-704-5440																				i Environment lesting
Client Information (Sub Contract Lab)	Sampler ⁻				b PM ramei	r Jes	sica						Car	rier Tra	king N	Vo(s)			COC No 880-6566 1	
Client Contact: Shipping/Receiving	Phone			E-	Mail essica			Det e	urofir	nsus	com			te of Or w Mex	-				Page: Page 1 of 1	
Company Eurofins Environment Testing South Centr					Ac	credit		Reau	red (S				Inc	W IVICA					Job#:	
Address 1211 W Florida Ave	Due Date Requeste 3/24/2023	d				LLAI	- 16	Ads		۸		- D		-41					890-4358-1 Preservation Co	des
City Midland	TAT Requested (da	ıys):	······································		Estat.					All	alys	IS K	eque	sted		\neg		1	A HCL B NaOH	M Hexane N None
State, Zip: TX 79701					Ì		Ŧ											ŀ	C - Zn Acetate D Nitric Acid E NaHSO4	O AsNaO2 P Na2O4S Q Na2SO3
Phone: 432-704-5440(Tel)	PO#) Full												F MeOH G Amchlor	R Na2S2O3 S H2SO4 T TSP Dodecahydrate
Email	WO#				- 18 8 18	(ON	p (MO		Shlorid	ŭ								1	H Ascorbic Acid I Ice J DI Water	U Acetone V MCAA
Project Name [.] Maverick MCA 351	Project # ⁻ 89000094				T Se // Se	S or N	S_Pre		ACHO	OD) BT								containers	K EDTA L EDA	W pH 4-5 Y Trizma Z other (specify)
Site	SSOW#				Jampi	SD (Ye	15NM		ים כל	alc (M								fcont	Other [.]	_ canon (opcomy)
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil BT=Tissue, A=	id Filtered	Perform MS/MS	8016MOD_NM/8015NM_S_Prep (MOD) Full	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Caic (MOD) BTEX	Total_BTEX_GCV							Total Number of	Special II	nstructions/Note
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Note. Since laboratory accreditations are subject to change Eurofins Environment laboratory does not currently maintain accreditation in the State of Origin listed aboratory does not surrently maintain accreditation status should be brought to Eurofins Environment Testing South Cer																				
Possible Hazard Identification																			ed longer than	
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4/3/2023

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4358-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad

Login Number: 4358 List Number: 1

Creator: Stutzman, Amanda

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

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Client: Ensolum

Job Number: 890-4358-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 03/21/23 11:22 AM

Login Number: 4358 List Number: 2 Creator: Teel, Brianna

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

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Client: Ensolum Job Number: 890-4360-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 4360 List Number: 1

Creator: Stutzman, Amanda

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

Client: Ensolum Job Number: 890-4360-1

SDG Number: Lea County NM

Login Number: 4360 List Source: Eurofins Midland List Number: 2 List Creation: 03/21/23 11:22 AM

Creator: Teel, Brianna

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

<6mm (1/4").

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 1:49:23 PM

JOB DESCRIPTION

Maverick MCA 351 SDG NUMBER Lea County NM

JOB NUMBER

890-4361-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220



Eurofins Carlsbad

Job Notes

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

Authorization

Generated 4/3/2023 1:49:23 PM

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

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

4/3/2023

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Client: Ensolum
Project/Site: Maverick MCA 351

Laboratory Job ID: 890-4361-1
SDG: Lea County NM

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Definitions/Glossary

Client: Ensolum Job ID: 890-4361-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Qualifiers

GC VOA
Qualifier Qualifier Description

S1+ Surrogate recovery exceeds control limits, high biased.
U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Carlsbad

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Case Narrative

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4361-1

SDG: Lea County NM

Job ID: 890-4361-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4361-1

Receipt

The sample was received on 3/20/2023 9:01 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS03 (890-4361-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: SS03 (890-4361-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (880-26413-A-1-E). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

GC Semi VOA

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

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

Client Sample Results

Client: Ensolum Job ID: 890-4361-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Client Sample ID: SS03

Lab Sample ID: 890-4361-1 Date Collected: 03/17/23 12:00 Matrix: Solid

Sample Depth: 0.5'

Date Received: 03/20/23 09:01

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/30/23 08:44	03/30/23 12:52	
Toluene	<0.00201	U	0.00201	mg/Kg		03/30/23 08:44	03/30/23 12:52	,
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/30/23 08:44	03/30/23 12:52	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/30/23 08:44	03/30/23 12:52	
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/30/23 08:44	03/30/23 12:52	,
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/30/23 08:44	03/30/23 12:52	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			03/30/23 08:44	03/30/23 12:52	
1,4-Difluorobenzene (Surr)	112		70 - 130			03/30/23 08:44	03/30/23 12:52	
Method: TAL SOP Total BTEX - 1	Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/30/23 13:37	-
Analyte	Result	Qualifier	RL	Unit	D	Prepared		
			• • • •	Oilit	ט	Frepareu	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg		Frepareu	03/27/23 17:15	Dil Fac
			50.0					Dil Fac
Method: SW846 8015B NM - Dies	sel Range Orga		50.0		<u>D</u>	Prepared		Dil Fac
Method: SW846 8015B NM - Dies Analyte	sel Range Orga	nics (DRO) Qualifier	50.0 (GC)	mg/Kg			03/27/23 17:15	
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	03/27/23 17:15 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10	sel Range Orga Result	nics (DRO) Qualifier	50.0 (GC)	mg/Kg		Prepared	03/27/23 17:15 Analyzed	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	sel Range Orga Result <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0	mg/Kg Unit mg/Kg		Prepared 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29	Dil Fa
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	sel Range Orga Result <50.0 <50.0	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29 03/27/23 11:29	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Sel Range Orga Result <50.0 <50.0 <50.0 %Recovery	nics (DRO) Qualifier U	50.0 (GC) RL 50.0 50.0 50.0 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55 03/24/23 16:55 Prepared	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29 03/27/23 11:29 Analyzed	Dil Fac
Total TPH Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion	sel Range Orga Result <50.0	U Qualifier U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55 03/24/23 16:55 Prepared 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29 Analyzed 03/27/23 11:29	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 99 87 Chromatograp	U Qualifier U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/24/23 16:55 03/24/23 16:55 03/24/23 16:55 Prepared 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29 Analyzed 03/27/23 11:29	Dil Fac
Method: SW846 8015B NM - Dies Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane 0-Terphenyl Method: EPA 300.0 - Anions, Ion	sel Range Orga Result <50.0 <50.0 <50.0 %Recovery 99 87 Chromatograp	U Qualifier Qualifier U Qualifier	50.0 (GC) RL 50.0 50.0 50.0 Limits 70 - 130 70 - 130	mg/Kg Unit mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 03/24/23 16:55 03/24/23 16:55 03/24/23 16:55 Prepared 03/24/23 16:55 03/24/23 16:55	03/27/23 17:15 Analyzed 03/27/23 11:29 03/27/23 11:29 Analyzed 03/27/23 11:29 03/27/23 11:29	Dil Fa

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Surrogate Summary

Client: Ensolum Job ID: 890-4361-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

•				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26413-A-1-C MS	Matrix Spike	95	112	
880-26413-A-1-D MSD	Matrix Spike Duplicate	107	103	
890-4361-1	SS03	132 S1+	112	
LCS 880-49806/1-A	Lab Control Sample	90	114	
LCSD 880-49806/2-A	Lab Control Sample Dup	92	114	
MB 880-49806/5-A	Method Blank	72	97	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ene (Surr)			
DFBZ = 1,4-Difluorobenzer	ne (Surr)			

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Li
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-4361-1	SS03	99	87	
390-4361-1 MS	SS03	108	87	
390-4361-1 MSD	SS03	108	87	
_CS 880-49457/2-A	Lab Control Sample	93	83	
_CSD 880-49457/3-A	Lab Control Sample Dup	90	81	
MB 880-49457/1-A	Method Blank	120	118	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Client: Ensolum Job ID: 890-4361-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49806/5-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49806

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/29/23 10:15	03/30/23 10:47	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/29/23 10:15	03/30/23 10:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	03/29/23 10:15	03/30/23 10:47	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/29/23 10:15	03/30/23 10:47	1

Lab Sample ID: LCS 880-49806/1-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49806

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1279		mg/Kg		128	70 - 130	
Toluene	0.100	0.1063		mg/Kg		106	70 - 130	
Ethylbenzene	0.100	0.09803		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1006		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: LCSD 880-49806/2-A

Matrix: Solid

Analysis Batch: 49916

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49806

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1170		mg/Kg		117	70 - 130	9	35	
Toluene	0.100	0.09934		mg/Kg		99	70 - 130	7	35	
Ethylbenzene	0.100	0.09051		mg/Kg		91	70 - 130	8	35	
m-Xylene & p-Xylene	0.200	0.1833		mg/Kg		92	70 - 130	9	35	
o-Xylene	0.100	0.09201		mg/Kg		92	70 - 130	9	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1.4-Difluorobenzene (Surr)	114		70 - 130

Lab Sample ID: 880-26413-A-1-C MS

Matrix: Solid

Analysis Batch: 49916

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

Prep Batch: 49806

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0998	0.1080		mg/Kg		108	70 - 130	
Toluene	<0.00198	U	0.0998	0.09466		mg/Kg		95	70 - 130	

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4/3/2023

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QC Sample Results

Client: Ensolum Job ID: 890-4361-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-26413-A-1-C MS

Client Sample ID: Matrix Spike

Matrix: Solid
Analysis Batch: 49916
Sample Sample Spike MS MS
Prep Type: Total/NA
Prep Batch: 49806
%Rec

		p							,
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Ethylbenzene	<0.00198	U	0.0998	0.08655		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.1762		mg/Kg		88	70 - 130
o-Xylene	<0.00198	U	0.0998	0.08842		mg/Kg		88	70 - 130

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 95
 70 - 130

 1,4-Difluorobenzene (Surr)
 112
 70 - 130

Lab Sample ID: 880-26413-A-1-D MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 49916 Prep Batch: 49806

Sample Sample Spike MSD MSD RPD Result Qualifier RPD Limit Analyte babbA Result Qualifier %Rec Limits Unit Benzene <0.00198 U 0.101 0.1012 mg/Kg 100 70 - 130 6 35 Toluene <0.00198 0.101 0.1004 mg/Kg 100 70 - 130 6 35 Ethylbenzene <0.00198 0.101 0.09804 97 70 - 130 35 U mg/Kg 12 m-Xylene & p-Xylene <0.00396 U 0.202 0.2080 mg/Kg 103 70 - 130 17 35 <0.00198 U 0.101 0.1049 70 - 130 o-Xylene mg/Kg 104 17

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 107
 70 - 130

 1,4-Difluorobenzene (Surr)
 103
 70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-49457/1-A

Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 49559

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1
C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1
	Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Analyte Result Gasoline Range Organics <50.0 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 C10-C28)	Gasoline Range Organics <50.0 U (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U C10-C28)	Analyte Result Qualifier RL Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Prepared Gasoline Range Organics <50.0	Analyte Result Qualifier RL Unit D Prepared Analyzed Gasoline Range Organics <50.0

MB MB %Recovery Qualifier Limits Prepared Dil Fac Surrogate Analyzed 70 - 130 1-Chlorooctane 120 03/24/23 16:55 03/27/23 08:47 118 70 - 130 03/24/23 16:55 03/27/23 08:47 o-Terphenyl

Lab Sample ID: LCS 880-49457/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 49559 Prep Batch: 49457

	Spike	LUS	LUS				70 KeC
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1022		mg/Kg		102	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	876.8		mg/Kg		88	70 - 130
C10-C28)							

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Prep Batch: 49457

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Job ID: 890-4361-1

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-49457/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Client: Ensolum

Analysis Batch: 49559

Project/Site: Maverick MCA 351

Prep Type: Total/NA Prep Batch: 49457

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 83 70 - 130

Lab Sample ID: LCSD 880-49457/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 49559

Prep Type: Total/NA Prep Batch: 49457

Spike LCSD LCSD %Rec RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 861.9 86 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 864.3 86 mg/Kg 70 - 13020

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 90 70 - 130 1-Chlorooctane 81 70 - 130 o-Terphenyl

Lab Sample ID: 890-4361-1 MS **Client Sample ID: SS03 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 49559

Prep Batch: 49457 Sample Sample MS MS Spike hahhA

Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 997 1038 mg/Kg 100 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 721.8 mg/Kg 70 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 108 o-Terphenyl 87 70 - 130

Lab Sample ID: 890-4361-1 MSD Client Sample ID: SS03

Matrix: Solid

Analysis Batch: 49559

Prep Type: Total/NA Prep Batch: 49457

Sample Sample MSD MSD %Rec RPD Spike Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit <50.0 U 998 1062 102 Gasoline Range Organics mg/Kg 70 - 130 20 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 998 727.0 mg/Kg 70 70 - 130 20 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 108 70 - 130 87 70 - 130 o-Terphenyl

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Client Sample ID: Method Blank

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Prep Type: Soluble

QC Sample Results

Job ID: 890-4361-1 Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49881/1-A

Matrix: Solid

Analysis Batch: 50038

Alialysis Dalcii. 30030								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/31/23 22:20	1

Lab Sample ID: LCS 880-49881/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50038

	Spike	LOS LOS				/ortec	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.2	mg/Kg		105	90 - 110	

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Lab Sample ID: LCSD 880-49881/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50038

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 250 263.2 105 90 - 110 mg/Kg

Lab Sample ID: 890-4352-A-11-D MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 50038

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	33.6		252	285.7		mg/Kg		100	90 - 110	

Lab Sample ID: 890-4352-A-11-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 50038

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	33.6		252	285.7		mg/Kg		100	90 - 110	0	20

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QC Association Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4361-1 SDG: Lea County NM

GC VOA

Prep Batch: 49806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	5035	
MB 880-49806/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49806/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49806/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26413-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-26413-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49916

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	8021B	49806
MB 880-49806/5-A	Method Blank	Total/NA	Solid	8021B	49806
LCS 880-49806/1-A	Lab Control Sample	Total/NA	Solid	8021B	49806
LCSD 880-49806/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49806
880-26413-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	49806
880-26413-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49806

Analysis Batch: 49971

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49457

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	8015NM Prep	
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4361-1 MS	SS03	Total/NA	Solid	8015NM Prep	
890-4361-1 MSD	SS03	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	8015B NM	49457
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015B NM	49457
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49457
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49457
890-4361-1 MS	SS03	Total/NA	Solid	8015B NM	49457
890-4361-1 MSD	SS03	Total/NA	Solid	8015B NM	49457

Analysis Batch: 49671

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Soluble	Solid	DI Leach	
MB 880-49881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: Ensolum

Project/Site: Maverick MCA 351

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 49881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4361-1	SS03	Soluble	Solid	300.0	49881
MB 880-49881/1-A	Method Blank	Soluble	Solid	300.0	49881
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	300.0	49881
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49881
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	49881
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49881

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Date Received: 03/20/23 09:01

Lab Chronicle

Client: Ensolum Job ID: 890-4361-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Client Sample ID: SS03 Lab Sample ID: 890-4361-1 Date Collected: 03/17/23 12:00

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49806	03/30/23 08:44	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49916	03/30/23 12:52	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49971	03/30/23 13:37	SM	EET MID
Total/NA	Analysis	8015 NM		1			49671	03/27/23 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 11:29	SM	EET MID
Soluble	Leach	DI Leach			5.05 g	50 mL	49881	03/29/23 16:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50038	04/01/23 00:30	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum

Job ID: 890-4361-1

Project/Site: Maverick MCA 351

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-22-25	06-30-23
The following analytes	and the also dead the determinant last			
the agency does not of	' '	it the laboratory is not certifi	ed by the governing authority. This list ma	ay include analytes for
,	' '	Matrix	ed by the governing authority. This list ma	ay include analytes for
the agency does not of	fer certification.	•	, , ,	ay include analytes for

Method Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4361-1 SDG: Lea County NM

COI Laboratory
6 EET MID

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	EET MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
3015B NM	Diesel Range Organics (DRO) (GC)	SW846	EET MID
300.0	Anions, Ion Chromatography	EPA	EET MID
5035	Closed System Purge and Trap	SW846	EET MID
3015NM Prep	Microextraction	SW846	EET MID
I Leach	Deionized Water Leaching Procedure	ASTM	EET MID

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4361-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4361-1	SS03	Solid	03/17/23 12:00	03/20/23 09:01	0.5'

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Environment Testing Xenco

Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300 Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order	No:	

www.xenco.com

Project Manager:	Kale	Jennings	;			Bill to: (if different)			Kalei Jennings							Work Order Comments							
Company Name:	Ensc	lum, LLC				Compan	y Name	e:	Ensolum, LLC						Program: UST/PST PRP Brownfields RRC Superfund								
Address:		N Marienfo	eld St S	uite 400		Address	:		601 N Marienfeld St Suite 400					State of Project:									
City, State ZIP:	Midla	and, TX 79	9701			City, Sta	te ZIP:		Midland, TX 79701												P Level IV		
Phone:	817-	683-2503			Email:	kjennin	gs@en	n.com	, dnik	anoro	/@ensc	olum.c	om		Del	verabl	es: ED	D 🔲		ADaP	T Othe	r:	
Project Name:	T	Maveri	ick MCA	351	Turr	Around						-	A	NALYS	SIS RE	QUE	ST .					Preserv	ative Codes
Project Number:			205706		✓ Routine	Rus	h	Pres. Code														None: NO	DI Water: H ₂ O
Project Location:	1	l ea C	County,	NM	Due Date:																	Cool: Cool	MeOH: Me
Sampler's Name:	Name: Dmitry Nikanorov TAT		TAT starts the			v													1	H ₂ SO ₄ : H ₂	HNO ₃ : HN NaOH: Na		
SAMPLE RECE	IPT	Temp I	Blank:	(Yes No	Wet Ice:	Yes	No	ete	_													H₃PO₄: HP	
Samples Received Cooler Custody Sea Sample Custody Se Total Containers:	Intact:	Yes	No N/A	Thermomete Correction Fa Temperature Corrected Te	actor: Reading: mperature:	C C C 24	3	Param	CHLORIDES (EPA: 300.0)	8015)	(8021		8	390-43	361 Chain of Custody			 			NaHSO ₄ : NABIS Na ₂ S ₂ O ₃ : NaSO ₃ Zn Acetate+NaOH: Zn NaOH+Ascorbic Acid: SAPC		
Sample Ide	ntificat	tion	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CALO	TPH (8015)	BTEX											Sample	Comments
SS	03		S	3/17/2023	12:00	0.5'	Grab	1	Х	Х	Х						-						
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		200.010			001 1005	34 F	44	A1 C		D- 5	- 5	24.0-	C+ C		Eo Dh	Ma	Mn M	o Ni	(\$0	Aa Si	iO. N	la Sr Tl Sn	II V Zn

Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$65.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	Auroso State	3/20/23 090	2		
3			4		
5			6		Parised Date: 08/25/2020 Rev. 202

Midland TX 79701

Euronns migiana 1211 W Florida Ave

Chain of Custody Record



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Environment Testing

4/3/2023

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Phone 432-704-5440													48	5						1	Environm	ent lesting
Client Information (Sub Contract Lab)	Sampler ⁻				PM amer.	PM mer Jessica						C	arrier T	racking	No(s)				COC No 880-6566 1			
Client Contact: Shipping/Receiving	Phone ⁻	Mail SSICA K	sica Kramer@et.eurofinsus com							State of Origin: New Mexico				Page								
Company Eurofins Environment Testing South Centr						Accreditations Required (See note) NELAP - Texas											Job#					
Address. 1211 W Florida Ave	Due Date Requeste 3/24/2023	Due Date Requested														,			4361-1 ervation C	Codes	·	
City City City City City City City City		TAT Requested (days):						Analysis I								Requested					f Hexane I None	
Midland State Zip:						1.												C Z	aOH n Acetate litric Acid	F	AsNaO2 Na2O4S	
TX 79701 Phone	PO#				- 1	1												F M	aHSO4 leOH	F	Na2SO3	,
432-704-5440(Tel) Email	WO#	·····			ᆸ	<u>0</u> 0		ide											mchlor scorbic Aci	_d T	H2SO4	ecahydrate
	WO#				or No	ع ا		Chlor	ă								l i	l Ice J D	∋ I Water	V	MCAA	
Project Name Maverick MCA 351	Project #* 89000094			***************************************	ُ النَّا	ر ا ا		AGH	6		ĺ							K E	DTA DA	Υ	V pH 4-5 Trizma	
Site	SSOW#			***************************************	Sample	2 §	'	1 3	S (N									Other		2	other (spe	city)
			I			1801	Q	28D/f	8	ડૂ								<u> </u>				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solld, O=waste/oil, BT=Tissue, A=A	Field Filtered	Perform MS/MS/MSU (Yes of No) 8015MOD NM/8015NM S Prep (MOD) Full TPH	8016MOD_Calo	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV								Other	Snecia	l inet	ructions/l	Noto:
		><	Preserva	tion Code:												\Box	Š	d -	Opecia		uctions	vote.
SS03 (890-4361-1)	3/17/23	12 00 Mountain		Solid	П	х	X	х	х	х							-	1	THE PARTY OF THE P		and the Control of th	
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Note Since laboratory accreditations are subject to change, Eurofins Environmer laboratory does not currently maintain accreditation in the State of Origin listed at accreditation status should be brought to Eurofins Environment Testing South Ce	t Testing South Centrove for analysis/tests.ntral LLC attention in	al LLC places /matrix being a nmediately If a	the ownership malyzed the sa all requested a	of method a amples must ccreditations	nalyte & be shipp are curre	accred ed bac ent to d	litation k to the ate ret	compli Eurofi um the	ance uins En	upon o nvironm ed Cha	ur sub ent T in of (contractions of the contraction	ct labora South C	atories. entral l	This s LLC la	sample boratory	shipme or oth	ent is forv ner instruc	/arded undo	er chair e provi	n-of-custody ded Any ch	If the anges to al LLC
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Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank. 2	2		8	ресіа	al Inst	ructio	ns/Q	C Re	quire	ement	S									
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Relinquished by	Date/Time			Company		Received by:					Date/Time						C	ompany				
Custody Seals Intact: Custody Seal No Δ Yes Δ No	<u> </u>					Cod	oler Te	mperat	ture(s)) °C an	d Oth	er Rem	arks.									

Client: Ensolum

Job Number: 890-4361-1

CDC Number: 4-20 Counts NM

SDG Number: Lea County NM

Login Number: 4361 List Source: Eurofins Carlsbad List Number: 1

Creator: Stutzman, Amanda

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

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Client: Ensolum

Job Number: 890-4361-1

SDG Number: Lea County NM

List Source: Eurofins Midland

List Creation: 03/21/23 11:22 AM

Login Number: 4361 List Number: 2 Creator: Teel, Brianna

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

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Environment Testing

ANALYTICAL REPORT

PREPARED FOR

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

Generated 4/3/2023 1:49:33 PM

JOB DESCRIPTION

Maverick MCA 351 SDG NUMBER Lea County NM

JOB NUMBER

890-4362-1

Eurofins Carlsbad 1089 N Canal St. Carlsbad NM 88220

Eurofins Carlsbad

Job Notes

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

Authorization

Generated 4/3/2023 1:49:33 PM

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

Eurofins Carlsbad is a laboratory within Eurofins Environment Testing South Central, LLC, a company within Eurofins Environment Testing Group of Companies 4/3/2023

Client: Ensolum
Project/Site: Maverick MCA 351

Laboratory Job ID: 890-4362-1
SDG: Lea County NM

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Definitions/Glossary

Job ID: 890-4362-1 Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Qualifiers

GC	VOA
Qual	ifier

*_	LCS and/or LCSD is outside acceptance limits, low biased.
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.

Qualifier Description

S1-Surrogate recovery exceeds control limits, low biased. Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Not Detected at the reporting limit (or MDL or EDL if shown)

Minimum Detectable Activity (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present **Practical Quantitation Limit**

Presumptive **Quality Control**

Method Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points

Limit of Quantitation (DoD/DOE)

Glossary

DLC

EDL

LOD

LOQ

MCL

MDA

MDC

MDL

MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC RER

RL **RPD**

TEF **TEQ**

TNTC

ML

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DI RA RE IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Eurofins Carlsbad

Case Narrative

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4362-1

SDG: Lea County NM

Job ID: 890-4362-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-4362-1

Receipt

The sample was received on 3/20/2023 9:01 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

The following sample was received and analyzed from an unpreserved bulk soil jar: SS04 (890-4362-1).

GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (LCSD 880-49653/2-A). Evidence of matrix interferences is not obvious.

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-49653 and analytical batch 880-49792 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

GC Semi VOA

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

HPLC/IC

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

Client Sample Results

Client: Ensolum Job ID: 890-4362-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Client Sample ID: SS04

Lab Sample ID: 890-4362-1

Date Collected: 03/17/23 12:10 Date Received: 03/20/23 09:01 Matrix: Solid

Sample Depth: 0.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U *- *1	0.00201	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
Toluene	<0.00201	U *1	0.00201	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
Ethylbenzene	<0.00201	U *+ *1	0.00201	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
m-Xylene & p-Xylene	<0.00402	U *- *1	0.00402	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
o-Xylene	<0.00201	U *+ *1	0.00201	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/27/23 14:59	03/29/23 18:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			03/27/23 14:59	03/29/23 18:49	1
1,4-Difluorobenzene (Surr)	106		70 - 130			03/27/23 14:59	03/29/23 18:49	1
Method: TAL SOP Total BTEX - T	otal BTEX Cal	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/30/23 13:32	1
- Method: SW846 8015 NM - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/27/23 17:15	1
Method: SW846 8015B NM - Dies	sel Range Orga	nics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 12:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 12:33	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 12:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130			03/24/23 16:55	03/27/23 12:33	1
o-Terphenyl	98		70 - 130			03/24/23 16:55	03/27/23 12:33	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy - Solubl	e					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	77.3		5.01	mg/Kg	_		04/01/23 00:35	1

Surrogate Summary

Client: Ensolum Job ID: 890-4362-1 Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-26164-A-1-B MS	Matrix Spike	100	112	
880-26164-A-1-C MSD	Matrix Spike Duplicate	102	114	
890-4362-1	SS04	97	106	
LCS 880-49653/1-A	Lab Control Sample	98	111	
LCSD 880-49653/2-A	Lab Control Sample Dup	40 S1-	102	
MB 880-49653/5-A	Method Blank	89	101	
Surrogate Legend				

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-4361-A-1-B MS	Matrix Spike	108	87	
890-4361-A-1-C MSD	Matrix Spike Duplicate	108	87	
890-4362-1	SS04	102	98	
LCS 880-49457/2-A	Lab Control Sample	93	83	
LCSD 880-49457/3-A	Lab Control Sample Dup	90	81	
MB 880-49457/1-A	Method Blank	120	118	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Carlsbad

Client: Ensolum Job ID: 890-4362-1 Project/Site: Maverick MCA 351

SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-49653/5-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 49653

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/27/23 14:59	03/29/23 13:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/27/23 14:59	03/29/23 13:26	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		70 - 130	03/27/23 14:5	03/29/23 13:26	1
1,4-Difluorobenzene (Surr)	101		70 - 130	03/27/23 14:5	03/29/23 13:26	1

Lab Sample ID: LCS 880-49653/1-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49653

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1099		mg/Kg		110	70 - 130	
Toluene	0.100	0.1071		mg/Kg		107	70 - 130	
Ethylbenzene	0.100	0.09751		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.1927		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09611		mg/Kg		96	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-49653/2-A

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 49653

	Spike	LCSD	LCSD				%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.03864	*- *1	mg/Kg		39	70 - 130	96	35	
Toluene	0.100	0.07087	*1	mg/Kg		71	70 - 130	41	35	
Ethylbenzene	0.100	0.3961	*+ *1	mg/Kg		396	70 - 130	121	35	
m-Xylene & p-Xylene	0.200	0.1305	*- *1	mg/Kg		65	70 - 130	39	35	
o-Xylene	0.100	0.1666	*+ *1	mg/Kg		167	70 - 130	54	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	40	S1-	70 - 130		
1 4-Difluorobenzene (Surr)	102		70 - 130		

Lab Sample ID: 880-26164-A-1-B MS

Matrix: Solid

Analysis Batch: 49792

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

Prep Batch: 49653

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U *- *1	0.100	0.1054		mg/Kg	_	105	70 - 130	
Toluene	<0.00200	U *1	0.100	0.1029		mg/Kg		102	70 - 130	

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QC Sample Results

Job ID: 890-4362-1 Client: Ensolum Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 880-26164-A-1-B MS

Matrix: Solid

Analysis Batch: 49792

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49653

Sample Sample Spike MS MS %Rec Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <0.00200 U*+*1 Ethylbenzene 0.100 0.09252 92 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 U *- *1 0.201 0.1817 mg/Kg 91 70 - 130 0.100 o-Xylene <0.00200 U*+*1 0.09062 mg/Kg 90 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 49653

Matrix: Solid Analysis Batch: 49792

Lab Sample ID: 880-26164-A-1-C MSD

-	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U *- *1	0.0990	0.1097		mg/Kg		111	70 - 130	4	35
Toluene	<0.00200	U *1	0.0990	0.1072		mg/Kg		108	70 - 130	4	35
Ethylbenzene	<0.00200	U *+ *1	0.0990	0.09726		mg/Kg		98	70 - 130	5	35
m-Xylene & p-Xylene	<0.00399	U *- *1	0.198	0.1915		mg/Kg		97	70 - 130	5	35
o-Xylene	<0.00200	U *+ *1	0.0990	0.09537		mg/Kg		96	70 - 130	5	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-49457/1-A

Matrix: Solid

Analysis Batch: 49559

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

Prep Batch: 49457

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/23 16:55	03/27/23 08:47	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130	03/24/23 16:55	03/27/23 08:47	1
o-Terphenyl	118		70 - 130	03/24/23 16:55	03/27/23 08:47	1

Lab Sample ID: LCS 880-49457/2-A

Matrix: Solid

Analysis Batch: 49559

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

Prep Batch: 49457

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1022		mg/Kg		102	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	876.8		mg/Kg		88	70 - 130	
C10-C28)								

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Job ID: 890-4362-1

SDG: Lea County NM

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

LCS LCS

Lab Sample ID: LCS 880-49457/2-A

Lab Sample ID: LCSD 880-49457/3-A

Lab Sample ID: 890-4361-A-1-B MS

Matrix: Solid

Client: Ensolum

Analysis Batch: 49559

Project/Site: Maverick MCA 351

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 49457

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 93 70 - 130 o-Terphenyl 83 70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA Analysis Batch: 49559 Prep Batch: 49457 RPD

Spike LCSD LCSD %Rec Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 861.9 86 70 - 13017 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 864.3 mg/Kg 86 70 - 13020 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	90		70 - 130
o-Terphenyl	81		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 49457

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <50.0 U 997 1038 mg/Kg 100 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 997 721.8 mg/Kg 70 70 - 130 C10-C28)

Matrix: Solid

Analysis Batch: 49559

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 108 70 - 130 o-Terphenyl 87

Lab Sample ID: 890-4361-A-1-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid**

Analysis Batch: 49559

Prep Type: Total/NA

Prep Batch: 49457

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<50.0	U	998	1062		mg/Kg		102	70 - 130	2	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<50.0	U	998	727.0		mg/Kg		70	70 - 130	1	20	
C10 C20\												

C10-C28)

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	87		70 - 130

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Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

QC Sample Results

Client: Ensolum Job ID: 890-4362-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-49881/1-A

Matrix: Solid

Analysis Batch: 50038

MB MB

 Analyte
 Result Chloride
 Qualifier Qualifier
 RL VINITY
 Unit May 20 Prepared
 Prepared Analyzed Prepared
 Dil Fac O3/31/23 22:20
 Dil Fac O3/31/23 22

Lab Sample ID: LCS 880-49881/2-A

Matrix: Solid

Analysis Batch: 50038

Spike LCS LCS %Rec Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 263.2 mg/Kg 105 90 - 110

Lab Sample ID: LCSD 880-49881/3-A

Matrix: Solid

Analysis Batch: 50038

LCSD LCSD %Rec RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 263.2 105 mg/Kg 90 - 110

Lab Sample ID: 890-4352-A-11-D MS

Matrix: Solid

Analysis Batch: 50038

MS MS Sample Sample Spike %Rec Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 33.6 252 285.7 100 90 - 110 mg/Kg

Lab Sample ID: 890-4352-A-11-E MSD

Matrix: Solid

Analysis Batch: 50038

Sample Sample Spike MSD MSD %Rec RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 252 Chloride 33.6 285.7 mg/Kg 100 90 - 110 20

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QC Association Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4362-1 SDG: Lea County NM

GC VOA

Prep Batch: 49653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	5035	
MB 880-49653/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-49653/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-49653/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-26164-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-26164-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 49792

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	8021B	49653
MB 880-49653/5-A	Method Blank	Total/NA	Solid	8021B	49653
LCS 880-49653/1-A	Lab Control Sample	Total/NA	Solid	8021B	49653
LCSD 880-49653/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	49653
880-26164-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	49653
880-26164-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	49653

Analysis Batch: 49961

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 49457

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	8015NM Prep	
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-4361-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-4361-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 49559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	8015B NM	49457
MB 880-49457/1-A	Method Blank	Total/NA	Solid	8015B NM	49457
LCS 880-49457/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	49457
LCSD 880-49457/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	49457
890-4361-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	49457
890-4361-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	49457

Analysis Batch: 49672

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 49881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Soluble	Solid	DI Leach	
MB 880-49881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Soluble	Solid	DI Leach	
MB 880-49881/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4362-1

SDG: Lea County NM

HPLC/IC (Continued)

Leach Batch: 49881 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 50038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-4362-1	SS04	Soluble	Solid	300.0	49881
MB 880-49881/1-A	Method Blank	Soluble	Solid	300.0	49881
LCS 880-49881/2-A	Lab Control Sample	Soluble	Solid	300.0	49881
LCSD 880-49881/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	49881
890-4352-A-11-D MS	Matrix Spike	Soluble	Solid	300.0	49881
890-4352-A-11-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	49881

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Lab Chronicle

Client: Ensolum Job ID: 890-4362-1
Project/Site: Maverick MCA 351 SDG: Lea County NM

Client Sample ID: SS04

Lab Sample ID: 890-4362-1

Matrix: Solid

Date Collected: 03/17/23 12:10 Date Received: 03/20/23 09:01

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	49653	03/27/23 14:59	MNR	EET MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	49792	03/29/23 18:49	MNR	EET MID
Total/NA	Analysis	Total BTEX		1			49961	03/30/23 13:32	SM	EET MID
Total/NA	Analysis	8015 NM		1			49672	03/27/23 17:15	SM	EET MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	49457	03/24/23 16:55	AJ	EET MID
Total/NA	Analysis	8015B NM		1	1 uL	1 uL	49559	03/27/23 12:33	SM	EET MID
Soluble	Leach	DI Leach			4.99 g	50 mL	49881	03/29/23 16:18	KS	EET MID
Soluble	Analysis	300.0		1	50 mL	50 mL	50038	04/01/23 00:35	SMC	EET MID

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Accreditation/Certification Summary

Client: Ensolum

Job ID: 890-4362-1

Project/Site: Maverick MCA 351

SDG: Lea County NM

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Texas		ogram	Identification Number	Expiration Date	
		ELAP	T104704400-22-25		
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	v include analytes for	
the agency does not of		it the laboratory is not certain	ed by the governing additionty. This list me	ay include arialytes for t	
0 ,		Matrix	Analyte	ay include analytes for t	
the agency does not of	fer certification.	•	, , ,	ay include analytes for v	

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Method Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4362-1 SDG: Lea County NM

Method **Method Description** Protocol Laboratory 8021B Volatile Organic Compounds (GC) SW846 EET MID **Total BTEX Calculation** TAL SOP Total BTEX EET MID 8015 NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 8015B NM Diesel Range Organics (DRO) (GC) SW846 **EET MID** 300.0 Anions, Ion Chromatography EPA **EET MID** 5035 **EET MID** Closed System Purge and Trap SW846 8015NM Prep Microextraction SW846 EET MID DI Leach **Deionized Water Leaching Procedure** ASTM **EET MID**

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET MID = Eurofins Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

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Sample Summary

Client: Ensolum

Project/Site: Maverick MCA 351

Job ID: 890-4362-1

SDG: Lea County NM

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-4362-1	SS04	Solid	03/17/23 12:10	03/20/23 09:01	0.5'

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Environment Testing Xenco

Chain of Custody

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Work Orde	er No:	

www.xenco.com

Project Manager:	Kalei	Jennings				Bill to: (if	different	1)	Kalei	Jennir	ngs		Work Order Comments							
Company Name:	Enso	lum, LLC				Compan	y Name	:	Enso	lum, Ll	LC		Program: UST/PST PRP B	Brownfields RRC Superfund						
Address:	1	N Marienfe	eld St S	uite 400		Address			601 N	N Marie	enfeld :	St Suite 400	State of Project:							
City, State ZIP:	Midla	and, TX 79	701			City, Sta	te ZIP:		Midla	nd, TX	7970		1 1	III PST/UST TRRP Level IV						
Phone:	817-6	383-2503			Email:	kjennin	gs@en	solun	Deliverables: EDD A	DaPT Other:										
Project Name:	1	Maveri	ck MCA	351	Turn	rn Around		Around						ANALYSIS R	EQUEST	Preservative Codes				
Project Number:		03D	205706	65	✓ Routine	Rus	h	Pres.						None: NO DI Water: H ₂ O						
Project Location:		Lea C	County,	NM	Due Date:									Cool: Cool MeOH: Me						
Sampler's Name: PO #:			Nikano		TAT starts the			40						HCL: HC HNO ₃ : HN H ₂ SO ₄ : H ₂ NaOH: Na						
SAMPLE RECE	IPT	Temp E	Blank:	Yes No	Wet Ice:	Yes	No	ete	6					H ₃ PO ₄ : HP						
Samples Received	Intact:	Yes	No	Thermomete	r ID:	can	PD-	Tag.	300.0)					NaHSO ₄ : NABIS						
Cooler Custody Sea	als:	Yes No	N/A	Correction Fa	actor:	~0 ·	2	à	(EPA:		ĺ			Na ₂ S ₂ O ₃ : NaSO ₃						
Sample Custody Se	als:	Yes No	(N/A	Temperature	Reading:	2	0		SE			890-4362 Chain of Cu	ustody	Zn Acetate+NaOH: Zn						
Total Containers:				Corrected Te	mperature:	3	0		i ii	015)	8021	890-4302 0114		NaOH+Ascorbic Acid: SAPC						
Sample Ide	ntificat	lon	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp		CHLORIDES	TPH (8015)	BTEX (8021			Sample Comments						
SS	04		s	3/17/2023	12:10	0.5'	Grab	1	Х	Х	X									
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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag TI U

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
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3			4		
5			6		evised Date 08/25/2020 Rev. 20

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4/3/2023

1211 W Florida Ave
Midland TX 79701
Phone: 432-704-5440

Chain of Custody Record



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Environment Testing

Filorie: 432-704-3440																					
Client Information (Sub Contract Lab)	Sampler ⁻			Lab PM Krame		ssica	1					Carrie	er Tracki	ng No(s)			COC No 880-6566 1			
Client Contact: Shipping/Receiving	Phone			E-Mail Jessic	a Kra	amer	@et.e	eurofii	nsus	com			of Origin		····			Page Page 1 of 1			
Company Eurofins Environment Testing South Centr				Α	ccredi		Requ	ired (S				1						Job #:			
Address	Due Date Request	ed			VELA	P - 1	exas									***********		890-4362-1 Preservation Code:	e		
1211 W Florida Ave City	3/24/2023 TAT Requested (d	a.(a)					,		An	alysi	s Red	ques	ted		**********				M Hexane		
Midland	TAT Requested (d	ays)		*							ļ						i i	B NaOH	N None O AsNaO2		
State, Zip TX, 79701						垂											Sample	D Nitric Acid	P Na2O4S Q Na2SO3		
Phone 432-704-5440(Tel)	PO # ⁻					E E											coggo	G Amchlor	R Na2S2O3 S H2SO4 T TSP Dodecahydrate		
Email	WO#) (0	S_Prep (MOD) Full		hiorid	X								2	l Ice	U Acetone V MCAA		
Project Name [.] Maverick MCA 351	Project # 89000094			- 8	or No.	E.		ACHO	D) BTI								iners	K EDTA	W pH 4-5 Y Trizma		
Site	SSOW#				ڲٚٳڠ			O LE	o (MO								containers	Other ·	Z other (specify)		
			I		S IS	1/804	유	28D/I	<u>a</u>	နွ							ō				
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Mar Type (W=v (C=comp, O=war	vater olid, te/oil,	Perform MS/MSD (Yes	8016MOD_NM/8016NM	8015MOD_Calc	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc (MOD) BTEX	Total_BTEX_GCV							Total Numbe				
Canada	Cample Date		G=grab) BT=Tissu Preservation C		₩	8	8	×	<u>~</u>	2	-			-	-	97,000 0 11 10	₿	Special Inst	tructions/Note:		
SS04 (890-4362-1)	3/17/23	12 10 Mountain	Sc	Att is no and the	Ť	Х	х	х	х	x	1	1			1		\triangle				
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Note. Since laboratory accreditations are subject to change Eurofins Enviro laboratory does not currently maintain accreditation in the State of Origin list accreditation status should be brought to Eurofins Environment Testing Sou	nment Testing South Centred above for analysis/tests th Central LLC attention in	al, LLC places matrix being a mediately If a	the ownership of meth analyzed the samples r all requested accreditat	od analyte nust be sh ions are c	e & ac nipped urrent	credita back to	ation co to the l e, retur	ompliar Eurofin	nce up is Env signed	pon our ironmen	subcont it Testing	ract lab g South	oratorie n Centra	s. This	s sample aborato	e shipm ory or o	nent other	is forwarded under chai instructions will be proving as Environment Testing	n-of-custody If the ided Any changes to		
Possible Hazard Identification																		ed longer than 1 m			
Unconfirmed								To C					sal By					ive For	_ Months		
Deliverable Requested I II III IV Other (specify)	Primary Deliver	able Rank. 2	2		Spe	ecial	Instru	uction	s/QC	Requ	ireme	nts									
Empty Kit Relinquished by		Date		T	ime	1				` '	A		Method	of Ship	ment:				**************************************		
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Relinquished by	Date/Time		Compar	y		Rece	ived by	y ⁻					*	Dat	te/Time				Company		
Custody Seals Intact: Custody Seal No Δ Yes Δ No			<u> </u>			Coole	er Tem	peratu	re(s) °	°C and C	Other Re	marks				•					

Login Sample Receipt Checklist

Client: Ensolum Job Number: 890-4362-1

SDG Number: Lea County NM

List Source: Eurofins Carlsbad Login Number: 4362 List Number: 1

Creator: Stutzman, Amanda

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

Login Sample Receipt Checklist

Client: Ensolum

Job Number: 890-4362-1

SDG Number: Lea County NM

OBO Number. Lea County Nivi

List Source: Eurofins Midland
List Number: 2
List Creation: 03/21/23 11:22 AM

Creator: Teel, Brianna

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

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August 03, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 351

Enclosed are the results of analyses for samples received by the laboratory on 08/02/23 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/03/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: MAVERICK 32.808124,-103.734293

mg/kg

Sample ID: FS 01 4' (H234099-01)

BTEX 8021B

DIEXOGEED	9/	119	Anaryzo	a 5 y : 5 : 1 ,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2023	ND	1.98	99.2	2.00	0.642	
Toluene*	<0.050	0.050	08/03/2023	ND	1.90	95.2	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/03/2023	ND	1.95	97.6	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/03/2023	ND	5.76	95.9	6.00	0.697	
Total BTEX	<0.300	0.300	08/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/03/2023	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	ed 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	08/03/2023	ND	197	98.3	200	1.29	
DRO >C10-C28*	11.0	10.0	08/03/2023	ND	197	98.4	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	137	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	151	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

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

Received: 08/02/2023 Sampling Date: 08/02/2023

Reported: 08/03/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057065

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: FS 02 4' (H234099-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2023	ND	1.98	99.2	2.00	0.642	
Toluene*	<0.050	0.050	08/03/2023	ND	1.90	95.2	2.00	0.971	
Ethylbenzene*	<0.050	0.050	08/03/2023	ND	1.95	97.6	2.00	1.19	
Total Xylenes*	<0.150	0.150	08/03/2023	ND	5.76	95.9	6.00	0.697	
Total BTEX	<0.300	0.300	08/03/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	6 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	7360	16.0	08/03/2023	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	08/03/2023	ND	197	98.3	200	1.29	
DRO >C10-C28*	<10.0	10.0	08/03/2023	ND	197	98.4	200	0.780	
EXT DRO >C28-C36	<10.0	10.0	08/03/2023	ND					
Surrogate: 1-Chlorooctane	120 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134 %	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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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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Celey D. Keene

Received by OCD: 9/14/2023 3:25:41 PM

CARDINAL Laboratories

(575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum, LLC

Aime Cote

Project Manager:

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Page 5 of 5

Released to Imaging: 1/12/2024 10:16:06 AM

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BILL TO

P.O. #:



August 07, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 351

Enclosed are the results of analyses for samples received by the laboratory on 08/03/23 16:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 08/03/2023 Sampling Date: 08/03/2023
Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: FS 03 - 4' (H234142-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	1180	16.0	08/07/2023	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	116	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	22.9	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	96.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057065

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: FS 04 - 4' (H234142-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/07/2023	ND	448	112	400	3.64	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	107	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	41.4	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	100 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK 32.808124,-103.734293

ma/ka

Sample ID: FS 05 - 4' (H234142-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	656	16.0	08/07/2023	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	469	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	124	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	111	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

mg/kg

Sample ID: FS 06 - 4' (H234142-04)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	256	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057065 Tamara Oldaker

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: FS 07 - 5' (H234142-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 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	208	16.0	08/07/2023	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	130	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	35.6	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	106 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

mg/kg

Sample ID: FS 08 - 5' (H234142-06)

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	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	96.0	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	120	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

ma/ka

Sample ID: FS 09 - 5' (H234142-07)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	5440	16.0	08/07/2023	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	17.3	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

ma/ka

Sample ID: FS 10 - 5' (H234142-08)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	08/07/2023	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	08/04/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	181	10.0	08/04/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	44.9	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	94.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK 32.808124,-103.734293

ma/ka

Sample ID: FS 11 - 5' (H234142-09)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	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	10000	16.0	08/07/2023	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	08/05/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	503	10.0	08/05/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	151	10.0	08/05/2023	ND					
Surrogate: 1-Chlorooctane	96.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

mg/kg

Sample ID: FS 12 - 5' (H234142-10)

BTEX 8021B

DILX GOZID	ıııg,	, kg	Andryzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 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	912	16.0	08/07/2023	ND	448	112	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	08/05/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					
Surrogate: 1-Chlorooctane	98.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

ma/ka

Sample ID: FS 13 - 5' (H234142-11)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1200	16.0	08/07/2023	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	08/05/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	95.0	10.0	08/05/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	29.1	10.0	08/05/2023	ND					
Surrogate: 1-Chlorooctane	75.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 01 - 0-4' (H234142-12)

BTEX 8021B

	9/	9	71.14.1, = 0	,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	08/07/2023	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	08/05/2023	ND	170	85.1	200	6.10	
DRO >C10-C28*	<10.0	10.0	08/05/2023	ND	187	93.4	200	3.91	
EXT DRO >C28-C36	<10.0	10.0	08/05/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 02 - 0-4' (H234142-13)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 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	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	21.4	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 03 - 0-4' (H234142-14)

RTFY 8021R

BIEX 8021B	mg,	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	194	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	44.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	111 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057065

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 04 - 0-4' (H234142-15)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	25.5	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	122 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057065

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 05 - 0-5' (H234142-16)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	17.2	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057065

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 06 - 0-5' (H234142-17)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	25.7	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	113 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 07 - 0-5' (H234142-18)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/05/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/05/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/05/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
hloride, SM4500Cl-B mg/kg		/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	14.3	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114	% 49.1-14	8						

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Analytical Results For:

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

Received: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 08 - 0-5' (H234142-19)

BTEX 8021B

DILX GOZID	11197	- Kg	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/06/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 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	08/07/2023	ND	448	112	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 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: 08/03/2023 Sampling Date: 08/03/2023

Reported: 08/07/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: MAVERICK 32.808124,-103.734293

Sample ID: SW 09 - 0-5' (H234142-20)

BTEX 8021B

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/06/2023	ND	1.98	99.1	2.00	2.03	
Toluene*	<0.050	0.050	08/06/2023	ND	1.90	95.1	2.00	2.11	
Ethylbenzene*	<0.050	0.050	08/06/2023	ND	1.91	95.6	2.00	3.55	
Total Xylenes*	<0.150	0.150	08/06/2023	ND	5.71	95.2	6.00	3.72	
Total BTEX	<0.300	0.300	08/06/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	•		4						
Chloride, SM4500Cl-B	de, 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	08/07/2023	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	08/04/2023	ND	169	84.4	200	5.49	
DRO >C10-C28*	<10.0	10.0	08/04/2023	ND	190	95.2	200	7.70	
EXT DRO >C28-C36	<10.0	10.0	08/04/2023	ND					
Surrogate: 1-Chlorooctane	136 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	151 9	% 49.1-14	8						

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Notes and Definitions

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

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

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 ANALYS S REQUEST

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

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analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

	affiliates or successors arising out of or related to the performa	ance of services hereunder by Cardinal, regardless of	of whether such claim is based upon any or allo as a second	Verbal Result: ☐ Yes ☐ No Add'l Phone #:	-
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Y	Relinquished By:	Date: 7 7 Received	By:	REMARKS:	
	1 -ehr W	Time:	munea de la lan	V	
	100	1/25(2 V 1/1/	Sample Condition CHECKED BY:	Turnaround Time: Standard ☐ Bacteria (only) Sample Condition Rush ☐ Cool Intact Observed Temp. °C	
	bontered by: (onese one)	4.1	Cool Intact (Initials)	The was the subject of the Yes	
	Sampler - UPS - Bus - Other:	Corrected Temp. °C	☐ Yes ☐ Yes ☐ No ☐ No	Thermometer ID #143 Correction Factor 0.6°C 8/3/23 Nc No Corrected Temp. °C	_

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Page 23 of



CHAIN-OF-CUSTODY AND ANALYS S REQUEST

24

Page 24 of

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

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether bar analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,

affiliates or successors arising out of or related to the perform	mance of services, hereunder by Cardinal, regard	uless of whether bush channels			i Phone #.
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1 Jan 1	1636	and Condition	CHECKED BY:	Turnaround Time: Standard	Bacteria (only) Sample Condition
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Delivered by: (on the time)	7.1	Cool Intact	(Initials)	Thermometer ID #113	☐ Yes ☐ Yes
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Yes Yes	00,	Correction Factor -0.6°C 3 DC	□ Nc □ No Corrected Temp. °C
Sampler - UPS - Bus - Other:	Correction 15.11p.	☐ No ☐ No	1 -	Correction Factor St. 3/23	



August 14, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 351

Enclosed are the results of analyses for samples received by the laboratory on 08/10/23 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 08/10/2023 Sampling Date: 08/10/2023

Reported: 08/14/2023 Sampling Type: Soil Project Name: MCA 351 Sampling Condition: Coo

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Shari Cisneros

Project Location: MAVERICK 32.80821,-103.73417

Sample ID: PH 01 B 7' (H234295-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.02	101	2.00	0.564	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	0.617	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	98.2	2.00	0.768	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.88	98.0	6.00	0.558	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	08/11/2023	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	08/11/2023	ND	165	82.4	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/11/2023	ND	174	87.2	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	86.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 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: 08/10/2023 Sampling Date: 08/10/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057065 Shari Cisneros

Project Location: MAVERICK 32.80821,-103.73417

Sample ID: PH 01 F 11' (H234295-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.02	101	2.00	0.564	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	0.617	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	98.2	2.00	0.768	
Total Xylenes*	< 0.150	0.150	08/10/2023	ND	5.88	98.0	6.00	0.558	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	71.5-13	4						
Chloride, SM4500CI-B			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/11/2023	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	08/11/2023	ND	165	82.4	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/11/2023	ND	174	87.2	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	85.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.8	% 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.

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

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

Received by OCD: 9/14/2023 3:25:41 PM

Page 5 of 5

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Nam	(575) 393-2326 e: Ensolum, LLC	FAX (575) 393-	2476																					
Project Manage										B	ILL T	0					AN	ΙΔΙ Υ	SIS I	PEO	JEST			
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Phone #: 7	20-384-736	Fax #:						Ad	dres	s:			\exists									1		
Project#:	30705 106	Project Own	er:					Cit																
roject Name:	MCA 351							Sta	te:		Zip:		1											
roject Location		-103.7341	7					Pho	one :	#:			1											
ampler Name:	Ronni Huyes							Fax					-											1
FOR LAB USE ONLY					_	MATE	XIX	-		SERV	SAI	MPLING	H											1
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	ASTEWATER	SOIL	UDGE	OTHER:	ACID/BASE:	OTHER:			TPH	BTEX	OF	5								
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August 14, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 351

Enclosed are the results of analyses for samples received by the laboratory on 08/10/23 12:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 08/10/2023 Sampling Date: 08/10/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Shari Cisneros

Project Location: MAVERICK 32.80821,-103.73417

Sample ID: FS11A 6' (H234296-01)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.02	101	2.00	0.564	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	0.617	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	98.2	2.00	0.768	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.88	98.0	6.00	0.558	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 71.5-13	4						
nloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/11/2023	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	08/11/2023	ND	165	82.4	200	2.11	
DRO >C10-C28*	369	10.0	08/11/2023	ND	174	87.2	200	4.11	
EXT DRO >C28-C36	75.1	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	77.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.4	% 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

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

Received: 08/10/2023 Sampling Date: 08/10/2023

Reported: 08/14/2023 Sampling Type: Soil

Project Name:MCA 351Sampling Condition:Cool & IntactProject Number:03D2057065Sample Received By:Shari CisnerosProject Location:MAVERICK 32.80821,-103.73417

Sample ID: SW03 A 0-4' (H234296-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/10/2023	ND	2.02	101	2.00	0.564	
Toluene*	<0.050	0.050	08/10/2023	ND	1.92	95.9	2.00	0.617	
Ethylbenzene*	<0.050	0.050	08/10/2023	ND	1.96	98.2	2.00	0.768	
Total Xylenes*	<0.150	0.150	08/10/2023	ND	5.88	98.0	6.00	0.558	
Total BTEX	<0.300	0.300	08/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	08/11/2023	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	08/11/2023	ND	165	82.4	200	2.11	
DRO >C10-C28*	<10.0	10.0	08/11/2023	ND	174	87.2	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	08/11/2023	ND					
Surrogate: 1-Chlorooctane	85.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.2	% 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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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project Manag	er: Aimec Co	le.		BILL TO		ANAL YOUR
Address:	3122 Natina	1 Parks H	lucy .	P.O. #: AA		ANALYSIS REQUEST
City: CW	15410	State: \		Company:		
Phone #: 77	0-384-736	State: //	Mzip: 88220	Attn:		
Project#:	13U 49570ces	Project Own		Address:		
Project Name:	MCA 331	Project OW	ier;	City:		
Project Location		-102 77	2012	State: Zip:	100	
Sampler Name:	132.808.21 Dans High	4 103, 73	71/	Phone #:		
FOR LAB USE ONLY			MATRIX	Fax 非:		
			10	PRESERV. SAMPLING		
Lab I.D.	Sample I.D. FSIIA SW03A	Depth (feet)	(G)RAB OR (C)OMP - # CONTAINERS GROUNDWATER WASTEWATER X X SOIL OIL SLUDGE	OTHER: ACID/BASE: ACID/BAS	XXX BIJE	
E MOTE: Liability and Dar s. All claims including the in no event shall Cardhal or successions arising out	mages, Cardinal's liability and client, to for negligance and any other cau be liable for incidental or conseque	s exclusive remedy for any se wilustoower shall be dee nial damages, including us	claim arising whether based in contract or to med waived unless made in writing and rec	ort shall be limited to the amount paid by the client for the celved by Cardinal value 30 days after completion of the appli of use, or loss of profits incurred by client, its subsidiaries,		

.4.	Relinquished By:	ance of services hereunder by Cardinal, re	milation, business interruptions, loss of	wed by Cardinal within 30 days use, or loss of profils incurred	after completion of the applicable	
5	Relinquished By:	Time: 2:30)	olved By:	ed upon any of the above state	Verbal Result: ☐ Yes ☐ No All Results are emailed. Please pro	Add'l Phone #: vide Ernail address:
14/7	Delivered Day (C)	Time:	ived By:	000	REMARKS:	lum. Com
111	Sampler - UPS - Bus - Other	Observed Temp. °C	Sample Condition Cool Intact Yes Ves	CHECKED BY:	Turnaround Time: Standard Rush	Cool Infact Observed 7
wea of	1300121	† Cardinal cannot a	ccept verbal changes	Please email cha	Correction Factor 0.5 Children Factor 0.5 Chil	I lu- l'i-

verbal changes. Please email changes to celey.keene@cardinallabsnm.com



August 25, 2023

AIMEE COLE ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 351

Enclosed are the results of analyses for samples received by the laboratory on 08/18/23 15:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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: 08/18/2023 Sampling Date: 08/18/2023

Reported: 08/25/2023 Sampling Type: Soil Project Name: MCA 351 Sampling Condition: Coo

Project Name: MCA 351 Sampling Condition: Cool & Intact
Project Number: 03D2057065 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.80821,-103.734293

Sample ID: SS 01 0.5' (H234512-01)

BTEX 8021B	mg,	kg	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2023	ND	1.98	99.2	2.00	1.48	
Toluene*	<0.050	0.050	08/24/2023	ND	2.15	107	2.00	2.32	
Ethylbenzene*	<0.050	0.050	08/24/2023	ND	2.15	108	2.00	3.38	
Total Xylenes*	<0.150	0.150	08/24/2023	ND	6.45	108	6.00	3.61	
Total BTEX	<0.300	0.300	08/24/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	08/23/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/24/2023	ND	171	85.5	200	2.22	
DRO >C10-C28*	<10.0	10.0	08/24/2023	ND	179	89.3	200	8.14	
EXT DRO >C28-C36	<10.0	10.0	08/24/2023	ND					
Surrogate: 1-Chlorooctane	99.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Received by OCD: 9/14/2023 3:25:41

Project Manager:

Page 4 of



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

address: 5 CL Nathna	Harlis Hu	y zip: 88720	Company:								
city: Carls bud	Attn:	1941 E (C)	1								
Phone #: 720 384 7365	Fax #:			Address:			94.1		11		
roject#: 03D 765 706	S Project Own	er: Manerid.	City:								
roject Name: MCA 351		1 000 4									
Project Location: 32, 808 124, 163, 734 293 Sampler Name: Ronn, Huggs					1						
ampler Name: Ronn, H	911 105, 1	STUD	Phone #:		11	11					
FOR LAB USE ONLY	P	I MATRI	Fax #:	AMPLING	1						
Lab I.D. Sample I.D.	Depth (feet)	ERS STER ER		AMPLING	BTEX						
12345/2		# CONT GROUNI WASTEV SOIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	E TIME	R	12					
1 -5501	6.5'	GIX	X 8/48	1/23 1010	XX	1 1/2				+++	+
											-
					1 1/2					++	-
								5 50		++	7
								7		++-	+
											+
							1 30 0			1	+
							-19				+
											+
SE NOTE: Liability and Damages. Cardinal's liability and clies. All claims including those for negligence and any other	ent's exclusive remedy for an	Claim arising whether board in									
. In no event shall Cardinal he liable for incidental or conse	amounted to the second	mana an incoo unano un autotig	and received by Cardinal Within 30 days	after completion of the	annlicable						
es or successors arising out of or related to the performance inquished By:	of services hereunder by Ca Date: 8-18-23 Time: 7525	Received By:	s, boss of use, of loss of profits incurred in is based upon any of the above state	vy client, its subsidiaries reasons or otherwise. Verbal Res All Results	ult: Yeare emailed	. Please pr	ovide Fmail :	addrage.			
inquished By:	Date:	Received By:	annay.	REMARKS:	c 69 ev	1501(1m. 1	Com, jo	Tulcoma	n e t	nsolum.	Con
pler - UPS - Bus - Other:	rected Temp. °C	Sample Cond Cool Intact Yes Yes	CHECKED BY:	Turnaround Thermometer	ID #113	Standard Rush	10 Coo	cteria (only) of Intact Yes \(\sum Yes	Sample Co Observed	ondition d Temp. °C	
FUKW-000 K 3.2 10/07/21		LINOII	m I	Correction Fac	0 000	8/18/2		No No			

BILL TO

P.O. #:



APPENDIX E

NMOCD Notifications

Attachments:

From: Nobui, Jennifer, EMNRD

To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Harimon, Jocelyn, EMNRD; Hamlet, Robert, EMNRD

Subject: FW: [EXTERNAL] Maverick Permian- Extension Request- MCA 351 (Incident Number NAPP2302034681)

Date: Wednesday, April 19, 2023 11:39:01 AM

image001.png image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hello Kalei

OCD approves your 90-day extension request to July 31, 2023 to submit a remediation plan or closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,

Jennifer Nobui

From: Kalei Jennings < <u>kiennings@ensolum.com</u>>

Sent: Thursday, April 6, 2023 4:53 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick Permian- Extension Request- MCA 351 (Incident Number

NAPP2302034681)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

MCA 351 (Incident Number NAPP2302034681)

Maverick Permian, LLC (Maverick) is requesting an extension for the current deadline of April 6, 2023, for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for MCA 351 (Incident Number NAPP2302034681). The release was discovered on January 6, 2023. Initial site assessment and delineation activities have been completed. In order to complete additional remediation activities and submit a remediation work plan or closure report, Maverick requests a 90-day extension of this deadline until July 5, 2023.

Thank you,

Kalei Jennings

Senior Scientist 817-683-2503

Ensolum, LLC

From: <u>Velez, Nelson, EMNRD</u>

To: <u>Aimee Cole</u>

Subject: Maverick Permian- Extension Request - MCA 351 (Incident Number NAPP2302034681)

Date: Tuesday, August 8, 2023 2:25:52 PM

Attachments: <u>image.png</u>

image.png image.png image.png

Outlook-degf2b12.png

You don't often get email from nelson.velez@emnrd.nm.gov. Learn why this is important

[**EXTERNAL EMAIL**]

Good day Aimee,

Your 45-day time extension request to September 14, 2023 is approved. Remediation Due date has been updated within the incident page.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

Nelson Velez • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



previous email submittal;

From: Aimee Cole <acole@ensolum.com> Sent: Tuesday, August 8, 2023 1:15 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick Permian- Extension Request - MCA 351 (Incident Number

NAPP2302034681)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

MCA 351 (Incident Number NAPP2302034681)

Maverick Permian, LLC (Maverick) is requesting an extension of the current deadline for submitting a report required in 9.15.29.12.B.(1) NMAC detailing remedial actions at the MCA 351 (Incident Number NAPP2302034681). Excavation of impacted soil was completed last week. Confirmation samples were collected from the excavation and laboratory analytical reports are pending. Maverick is also planning to drill a depth to water boring to confirm the Site Closure Criteria. The drilling is scheduled for the week of August 21st. In order to review the excavation soil sample laboratory analytical results, complete the depth to water boring, and prepare a closure report, Maverick requests a 45-day extension until September 14, 2023.

Thank you,



From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 7/31/2023)

Date: Wednesday, July 26, 2023 10:53:35 AM Attachments: image001.png

image002.png image003.png image004.png

You don't often get email from shelly.wells@emnrd.nm.gov. <u>Learn why this is important</u>

[**EXTERNAL EMAIL**]

Hi Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com> Sent: Wednesday, July 26, 2023 10:29 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 7/31/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of July 31, 2023.

- Cone Jalmat South Satellite Header / NAPP2301881992
 - Sampling Dates: 7/31/2023 8/1/2023
- MCA 351 / NAPP2302034681

• Sampling Date: 8/2/2023 – 8/5/2023

Thank you,



From: Wells, Shelly, EMNRD

To: <u>Aimee Cole</u>

Cc: <u>Bratcher, Michael, EMNRD</u>; <u>Velez, Nelson, EMNRD</u>

Subject: RE: [EXTERNAL] Maverick - Sampling Notification (Week of 8/7/2023)

Date: Wednesday, August 2, 2023 2:45:38 PM

Attachments: <u>image001.png</u>

image002.png image003.png image004.png

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[**EXTERNAL EMAIL**]

Good afternoon Aimee,

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Administrative Permitting Program EMNRD-Oil Conservation Division 1220 S. St. Francis Drive | Santa Fe, NM 87505 (505)469-7520 | Shelly. Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Aimee Cole <acole@ensolum.com>
Sent: Wednesday, August 2, 2023 2:22 PM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov>

Subject: [EXTERNAL] Maverick - Sampling Notification (Week of 8/7/2023)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

All,

Maverick Permian, LLC plans to complete sampling activities at the following sites the week of August 7, 2023.

- Baish B Battery / NAPP2235372941
 - Sampling Dates: 8/10/2023
- MCA 351 / NAPP2302034681

• Sampling Date: 8/7/2023

Thank you,





APPENDIX F Form C-141 District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	NAPP2302034681
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC					OGRID: 331199				
Contact Nam	e: Bryce Wa	agoner			Contact Te	elephone: 928-241-1862			
Contact ema	Contact email: <u>Bryce.Wagoner@mavresources.com</u>				Incident # (assigned by OCD)				
Contact mail		Hobbs, NM 88240)						
			Location	of R	Release So	ource			
Latitude 32.8	0821		(NAD 83 in de	ecimal de	Longitude -	103.73417			
Site Name: M	ICA 351				Site Type				
Date Release	1/2/2023				API# (if app	olicable) 30-025-24547			
Unit Letter	Section	Township	Range		Coun	aty			
G	26	17S	32E	Lea					
	Materia		ribal Private (Nature and all that apply and attact	d Vo	lume of I	Release justification for the volumes provided below)			
Crude Oi		Volume Release	ed (bbls) 1.33 bbls	S		Volume Recovered (bbls) 0			
Produced	Water	Volume Release	ed (bbls) 7.81 bbls	5		Volume Recovered (bbls) 0			
		Is the concentra produced water	tion of dissolved of >10,000 mg/l?	chlorid	e in the	☐ Yes ⊠ No			
Condensa	ite	Volume Release	ed (bbls)			Volume Recovered (bbls)			
Natural G	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)			
Other (de	scribe)	Volume/Weight	t Released (provid	le units)	Volume/Weight Recovered (provide units)			
Cause of Rel The release v secured. Initi	vas caused b	y corrosion on a 2 and removal of sa	2 in flowline off-p turated soil from t	ad. The	e source of th	e release has been stopped and the impacted area been completed.			

Received by OCD: 9/14/2023 3:25:41 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page	<i>140</i>	of	148
1000016	0.1		_

Incident ID	NAPP2302034681
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ⊠ No		
If VFS, was immediate no	otice given to the OCD? By whom? To what	nom? When and by what means (phone, email, etc)?
Tr TES, was ininicatate in	stice given to the OCD. By whom. To wi	which and by what means (phone, eman, etc).
	Initial R	esponse
The responsible p	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.	
☐ The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ive been contained via the use of berms or c	likes, absorbent pads, or other containment devices.
<u> </u>	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
D 1017.00 0 D (1) 201		
has begun, please attach a	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environm failed to adequately investigations.	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Bryce	Wagoner T	itle:Permian HSE Specialist II
Signature: Kyrkyr	1	Date:1/16/2023 Telephone:928-241-1862
email:Bryce.Wago	ner@mavresources.com	Telephone:928-241-1862
OCD Only		
Received by:		Date:

NAPP2302034681

				Pooled I	Fluids on the S	urface				
	Length (ft.)	Width (ft.)	Depth (in)	# of Boundaries *edges of pool where depth is 0. don't count shared boundaries	Oil-Water Ratio (%)	Pooled Area (ft ²)	Estimated Average Depth (ft.)	Pooled Volume (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle B					0.01	0.0	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle C						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle D						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle E						0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Total Volume (bbls): 0.00 0.00 0.00									

				Su	bsurface Fluid	S				
	Length (ft.)	Width (ft.)	Depth (in.)	Saturation (%) *10% in consolidated sediments after rain to 50% in sand with no precipitation	Oil-Water Ratio (%)	Area (ft²)	Volume (bbl.)	Estimated Volume in Subsurface (bbl.)	Volume of Oil in Subsurface (bbl.)	Volume of Water in Subsurface (bbl.)
Rectangle A	55.0	25.0	4.0	0.1	0.20	1375.0	81.6	6.5	1.31	5.2
Rectangle B	35.0	40.0	1.0	0.1	0.01	1400.0	20.8	1.7	0.02	1.6
Rectangle C	40.0	20.0	1.0	0.1	0.01	800.0	11.9	0.9	0.01	0.9
Rectangle D				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle E				0.1	0.01	0.0	0.0	0.0	0.00	0.0
Rectangle F						0.0	0.0	0.0	0.00	0.0
Rectangle G						0.0	0.0	0.0	0.00	0.0
Rectangle H						0.0	0.0	0.0	0.00	0.0
Rectangle I						0.0	0.0	0.0	0.00	0.0
Rectangle J						0.0	0.0	0.0	0.00	0.0
	Total Volume (bbls): 9.14 1.33 7.81									

TOTAL RELEASE VOLUME (bbls): 9.1

tate of New Mexico

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District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	<u>>60</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	X Yes No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		
 ⊠ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ∏ Field data ☐ Data table of soil contaminant concentration data 		

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release

Depth to water determination

Topographic/Aerial maps

Photographs including date and GIS information

Laboratory data including chain of custody

Boring or excavation logs

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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.			
Printed Name: Bryce Wagoner	Title: Permian HSE Specialist		
Signature: Rywyr TT	Date: 9/12/2023		
email: Bryce. Wagoner@mavresources.com	Telephone: 928-241-1862		
OCD Only			
Received by:	Date:		

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Application ID	

Closure

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 (electronic submittals in .pdf format are preferred) 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.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.		
A scaled site and sampling diagram as described in 19.15.29.11	NMAC	
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	f the liner integrity if applicable (Note: appropriate OCD District office	
☐ Laboratory analyses of final sampling (Note: appropriate ODC I	District office must be notified 2 days prior to final sampling)	
☐ Description of remediation activities		
I hereby certify that the information given above is true and complete and regulations all operators are required to report and/or file certain r may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and reme human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the conductor accordance with 19.15.29.13 NMAC including notification to the OCI. Printed Name: Bryce Wagoner Signature: Bryce.Wagoner@mavresources.com	C-141 report by the OCD does not relieve the operator of liability ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ons. The responsible party acknowledges they must substantially litions that existed prior to the release or their final land use in	
OCD Only		
Received by:	Date:	
	f liability should their operations have failed to adequately investigate and ater, human health, or the environment nor does not relieve the responsible regulations.	
Closure Approved by: Nelson Velez	Date: 01/12/2024	
Printed Name: Nelson Velez	Title:Environmental Specialist - Adv	



APPENDIX G NMSLO Reclamation Plan

Reclamation Plan

The release occurred in a pasture area and as such, reclamation requirements set forth in 19.15.29.13.D (1) NMAC for the top 4 feet of areas that will be reclaimed following remediation were applied.

The following Reclamation Plan addresses reclamation of the off-pad excavation area and has been developed through review and application of the *Revegetation Guidelines Handbook for Southeastern New Mexico* – Version 1-1, authored by NMSLO and dated 2018, and 19.2.100.67 NMAC – *Surface Reclamation on State Oil and Gas Leases*:

- The excavation will be backfilled with locally sourced caliche and topsoil to match surrounding grade. A minimum of 1-foot of topsoil will be placed on top of the caliche to support vegetative growth within the disturbed area;
- Soil in the vicinity of the release in the pasture will be assessed for the proper application of *Table 3 Revegetation Plans*, *Codes*, *and Soil Types for Southeastern New Mexico*;
- The backfilled areas will be seeded utilizing a weed-free seed mix designed listed in the table below:

Common Name and Preferred Variety	Scientific Name	PLS Per Acre
Annual Quick-cover Grass		
Oats	Avena sativa	1.00
Cool Season Grass		
Western Wheatgrass	Agropyron smithii	2.50
Warm-Season Grass		
Black or Blue Grama	Boutela gracilis var. Alma	1.50
Little Bluestem	Schizachyrium scoparium	0.50
Sand Dropseed	Sporobolus cryptandrus	0.50
Sand Bluestem	Andropogon hallii	1.00
Indiangrass	Sorghastrum nutans	0.50
Sideoats Grama	Bouteloua curtipendula var. Vaughn	2.00
Wildflowers/ Forbs		
White prairie clover	Dalea candida	0.10
Scarlet globemallow	Sphaeralcea coccinea	0.10
Chia Sage	Salvia columbariae	0.10
Annual sunflower	Helianthus annuus	0.10
Annual buckwheat	Eriogonum annuum	0.10

- The seed mixture will be distributed with one or more of the following methods: push broadcaster seed spreader, tractor operated broadcast seed spreader, and/or drill seeding based on Site conditions and contractor availability;
- Application of the seed mixture will be at a coverage of 10 pounds of seeds per acre of reclaimed pasture with distribution by a drilling method or 20 pounds of seeds per acre of reclaimed pasture with distribution by a broadcast method;

- Erosion control management is not anticipated since the proposed excavation area is relatively flat; however, in the event erosion control management is necessary to support vegetation growth and minimize erosion until the root structures take hold, the application of the following best management practices (BMPs) could potentially include:
 - Prompt revegetation with mulching and contouring the ground surface to limit surface water flow:
 - o The placement of waddles in areas with a propensity for high run off rates;
 - Straw cover if high winds are anticipated to support moisture retention and limit wind from blowing seeds away before they have had time to germinate; and/or
 - Other erosional control best management practices (BMP) as necessary to support timely and healthy regrowth of vegetation in disturbed areas;
- Backfilling of the excavation will be scheduled and communicated with NMSLO prior to initiation:
- Seeding is anticipated to be completed in the Fall when temperatures and precipitation
 are most conducive for vegetation growth. In general, seeding should occur approximately
 one month after the last frost in the Spring up until approximately one month prior to the
 first fall frost. NMSLO has recognized the optimal time to seed is between July and early
 September, which will be the preferred timeframe for this Site;
- If seeding occurs outside of the 180 days approved in the current fully executed ROE Permit, a new ROE Permit will be executed prior to entering the pasture for reclamation activities;
- Annual inspections (at a minimum) will take place on the location until revegetation is
 consistent with local natural vegetation density. The Site will be inspected the following
 Fall to assess the success of regrowth. If necessary, an additional application of the
 NMSLO-approved pure live seed mixture will be applied as well as any needed BMPs will
 be installed to support growth and limit erosion; and
- Upon completion of revegetation, a copy of the C-103 submitted to NMOCD will also be submitted to NMSLO for final inspection and release.

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**

CONDITIONS

Action 265464

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	265464
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
nvelez	None	1/12/2024