

August 10, 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 204

Incident Number NAPP2311751602

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 204 (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 NAPP2311751602.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 27, Township 17 South, Range 32 East, in Lea County, New Mexico (32.8001257° N, -103.7520913° W) and is associated with oil and gas exploration and production operations on Federal Land managed by Bureau of Land Management (BLM).

On April 20, 2023, a leak developed in the stuffing box and resulted in the release of approximately 5 barrels (bbls) of crude oil and 10 bbls of produced water onto the surface of the well pad and lease road. No released fluids were recovered. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on May 1, 2023. The release was assigned Incident Number NAPP2311751602.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table 1, 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 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well RA-12721 POD 5, located

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 North Marienfeld Street | Midland, TX 79701 | ensolum.com Maverick Permian, LLC Closure Request MCA 204

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approximately 3,850 feet west of the Site. The groundwater well has a reported depth to groundwater of 124 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

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: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH was applied to the top 4 feet of the off-pad 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 May 4, 2023, site assessment and delineation activities were conducted at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Six assessment soil samples (SW1 through SW6) were collected around the visible release extent at a depth of 0.5 feet bgs to confirm the lateral extent of the release. Four soil borings (S1 through S4) were advanced within the release extent to assess the vertical extent of the release. Discrete delineation soil samples were collected from soil borings S1 through S4 at depths ranging from 1-foot to 5 feet bgs. 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 visits and a photographic log is included in Appendix B.

The assessment and delineation 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 Envirotech Inc. Laboratory 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 SW1 through SW6, 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. Laboratory analytical results for the delineation soil samples collected within the release extent from soil borings S1 through S4 indicated that TPH concentrations exceeded the most stringent Table I Closure Criteria at depths ranging from 1-foot to 4 feet bgs. All terminal depth delineation soil samples were compliant with the most stringent



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Table I Closure Criteria and defined the vertical extent of the release. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C. Based on visible staining in the release area and laboratory analytical results for the delineation soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between July 10, 2023 and July 21, 2023, Ensolum personnel were at the Site to oversee excavation of impacted soil as indicated by visible staining in the release area and laboratory analytical results for the delineation soil samples. 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 1.5 feet to 4.5 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 FS29, FS01A through FS03A, FS09A, FS14A, FS26A, FS27A, and FS29A were collected from the floor of the excavation at depths ranging from 1.5 feet to 4.5 feet bgs. Composite soil samples SW01 through SW13, SW01A, and SW12A were collected from the sidewalls of the excavation at depths ranging from the ground surface to 4 feet bgs. The excavation soil samples were submitted to Cardinal Laboratories and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS and are presented on Figure 3.

Laboratory analytical results for excavation floor samples FS01A through FS03A, FS04 through FS08, FS09A, FS10 through FS13, FS14A, FS15 through FS25, FS26A, FS27A, FS28, and FS29A and excavation sidewall samples SW01A, SW02 through SW11, SW12A, and SW13 collected from the final excavation extent, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. Laboratory analytical results for excavation floor samples FS01 through FS03, FS09, FS14, FS26, FS27, and FS29 and excavation sidewall samples SW01 and SW12 initially exceeded the most stringent Table I Closure Criteria for TPH; additional soil was removed from these areas and subsequent excavation samples FS01A through FS03A, FS09A, FS14A, FS26A, FS27A, FS29A, SW01A and SW12A were compliant. Laboratory analytical results are summarized on Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 4,500 square feet in areal extent. A total of approximately 410 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 April 20, 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 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.

Excavation of impacted soil has mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent.



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Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident NAPP2311751602. NMOCD Notifications are included in Appendix D and the final Form C-141 is included in Appendix E.

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

Sincerely, **Ensolum, LLC**

Julianna Falcomata Staff Geologist

Aimee Cole Senior Managing Scientist

cc: Bryce Wagoner, Maverick Natural Resources

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Assessment and Delineation Soil Sample Locations

Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Laboratory Analytical Reports & Chain of Custody Documentation

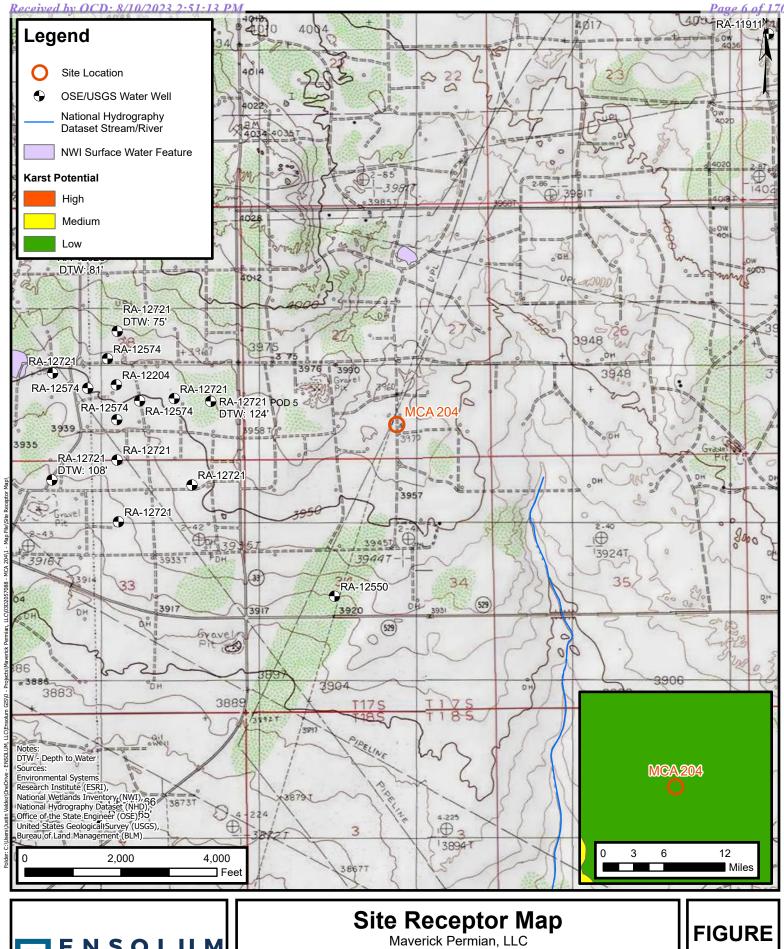
Appendix D NMOCD Notifications

Appendix E Final C-141





FIGURES

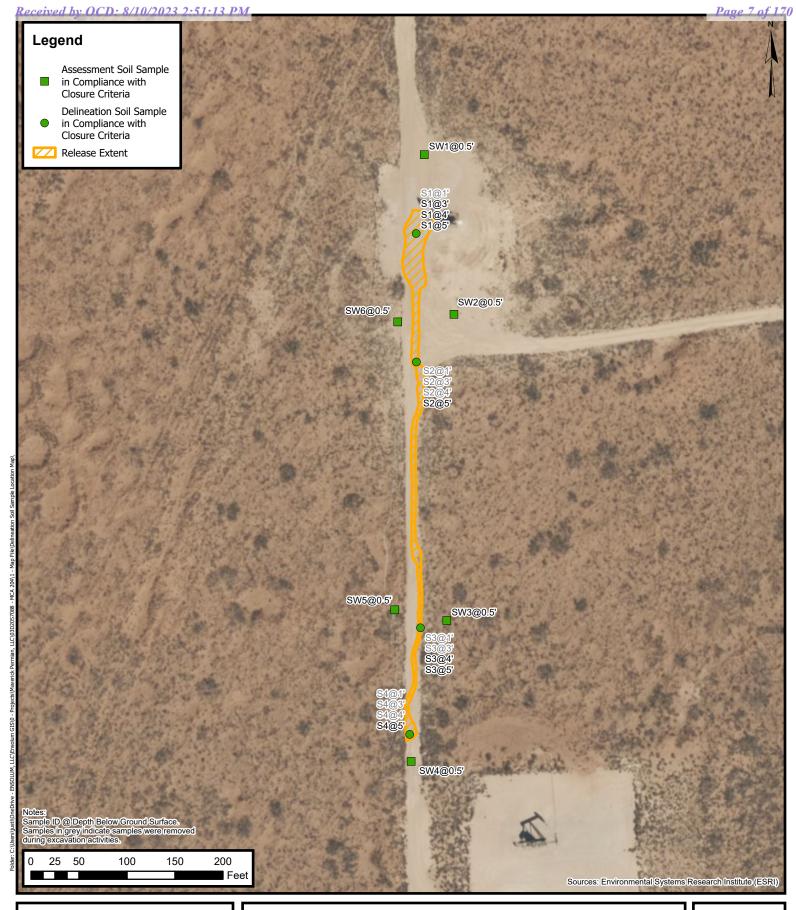




MCA 204 Incident Number: NAPP2311751602 Unit O, Sec 27, T17S, R32E Lea County, New Mexico

FIGURE

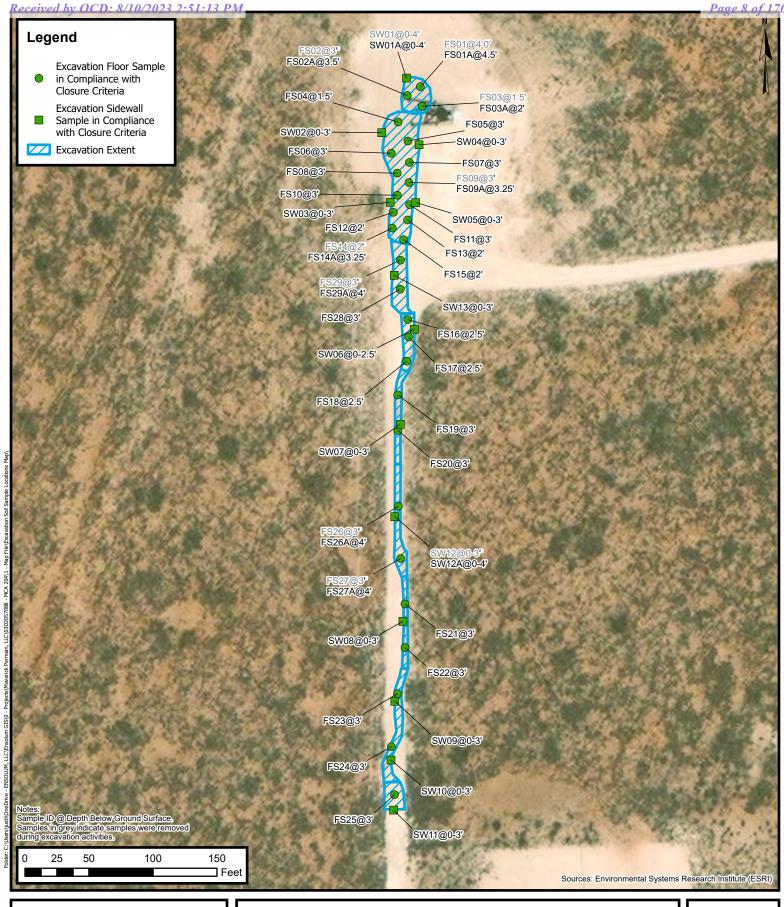
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Assessment and Delineation Soil Sample Locations

Maverick Permian, LLC MCA 204 Incident Number: NAPP2311751602 Unit O, Sec 27, T17S, R32E Lea County, New Mexico FIGURE 2





Excavation Soil Sample Locations

Maverick Permian, LLC MCA 204 Incident Number: NAPP2311751602 Unit O, Sec 27, T17S, R32E Lea County, New Mexico FIGURE 3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 204

Maverick Permian, LLC Lea County, New Mexico

				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	20,000	
	Assessment Soil Samples										
SW1	5/4/2023	0.5	<0.0250	ND	ND	ND	ND	ND	ND	ND	
SW2	5/4/2023	0.5	ND	ND	ND	ND	ND	ND	ND	ND	
SW3	5/4/2023	0.5	ND	ND	ND	ND	ND	ND	ND	ND	
SW4	5/4/2023	0.5	ND	ND	ND	ND	ND	ND	ND	ND	
SW5	5/4/2023	0.5	ND	ND	ND	ND	ND	ND	ND	ND	
SW6	5/4/2023	0.5	ND	ND	ND	ND	ND	ND	ND	ND	
Delineation Soil Samples											
S1	5/4/2023	1	ND	0.99	ND	698	293	991	991	495	
S1	5/4/2023	3	ND	ND	ND	ND	ND	ND	ND	272	
S1	5/4/2023	4	ND	ND	ND	ND	ND	ND	ND	86.0	
S1	5/4/2023	5	ND	2.15	ND	ND	ND	ND	ND	ND	
S2	5/4/2023	1	ND	ND	36.9	950	370	1,320	1,357	ND	
S2	5/4/2023	3	ND	ND	ND	ND	ND	ND	ND	ND	
S2	5/4/2023	4	ND	ND	ND	110	51.4	161	161	24.8	
S2	5/4/2023	5	ND	ND	ND	ND	ND	ND	ND	ND	
S3	5/4/2023	1	ND	1.76	21.5	1,280	559	1,302	1,861	ND	
S3	5/4/2023	3	ND	0.88	ND	1,220	ND	1,220	1,220	175	
S3	5/4/2023	4	ND	ND	ND	ND	ND	ND	ND	73.7	
S3	5/4/2023	5	ND	ND	ND	ND	ND	ND	ND	ND	
S4	5/4/2023	1	ND	0.300	ND	53.7	98.9	53.7	153	ND	
S4	5/4/2023	3	ND	ND	ND	ND	ND	ND	ND	ND	
S4	5/4/2023	4	ND	ND	ND	111	51.5	111	163	ND	
S4	5/4/2023	5	ND	ND	ND	ND	ND	ND	ND	ND	

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TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** MCA 204

Maverick Permian, LLC

					verick Permian, I County, New Me					
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	20,000
				Excava	tion Floor Soil S	amples				
FS01	7/10/2023	4	<0.050	<0.300	<10.0	62.1	62.4	62.1	125	256
FS01A	7/14/2023	4.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	82.3
FS02	7/10/2023	3	<0.050	<0.300	<10.0	61.4	94.3	61.4	156	208
FS02A	7/14/2023	3.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	31.1
FS03	7/10/2023	1.5	<0.050	<0.300	<10.0	177	147	177	324	304
FS03A	7/14/2023	2	<0.00200	<0.00401	<50.2	<50.2	<50.2	<50.2	<50.2	43.6
FS04	7/12/2023	1.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS05	7/11/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS06	7/11/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS07	7/11/2023	3	<0.050	<0.300	<10.0	16.6	<10.0	16.6	16.6	240
FS08	7/11/2023	3	<0.050	<0.300	<10.0	13.6	<10.0	13.6	13.6	256
FS09	7/11/2023	3	<0.050	<0.300	<10.0	75.9	29.3	75.9	105	192
FS09A	7/12/2023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS10	7/11/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS11	7/11/2023	3	<0.050	<0.300	<10.0	20.6	<10.0	20.6	20.6	192
FS12	7/11/2023	2	<0.050	<0.300	<10.0	15.4	<10.0	15.4	15.4	272
FS13	7/11/2023	2	<0.050	<0.300	<10.0	22.7	<10.0	22.7	22.7	256
FS14	7/11/2023	2	<0.050	<0.300	<10.0	86.4	25.6	86.4	112	208
FS14A	7/12/2023	3.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS15	7/11/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS16	7/12/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS17	7/12/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS18	7/12/2023	2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS19	7/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS20	7/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS21	7/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS22	7/14/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS23	7/17/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS MCA 204

Maverick Permian, LLC Lea County, New Mexico

	Lea County, New Mexico									
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	20,000
FS24	7/17/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
FS25	7/17/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	7/18/2023	3	<0.050	<0.300	<10.0	102	49.3	102	151	32.0
FS26A	7/19/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS27	7/18/2023	3	<0.050	<0.300	<10.0	89.7	65.7	89.7	155	16.0
FS27A	7/19/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS28	7/18/2023	3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
FS29	7/18/2023	3	<0.050	<0.300	<10.0	136	77.1	136	213	16.0
FS29A	7/19/2023	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
Excavation Sidewall Soil Samples										
SW01	7/10/2023	0-4	<0.050	<0.300	<10.0	177	216	177	393	208
SW01A	7/21/2023	0-4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SW02	7/11/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW03	7/11/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW04	7/11/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW05	7/11/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW06	7/12/2023	0-2.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SW07	7/14/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0
SW08	7/14/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SW09	7/17/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	160
SW10	7/17/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SW11	7/17/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
SW12	7/18/2023	0-3	<0.050	<0.300	<10.0	78.6	67.7	78.6	146	<16.0
SW12A	7/19/2023	0-4	<0.050	<0.300	<10.0	136	77.1	136	<10.0	16.0
SW13	7/18/2023	0-3	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0

Notes:

ND: non-detectable

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



APPENDIX A

Referenced Well Records



NO	OSE POD NO MW-10). (WELL N	90D	 5	WELL TAG ID N	IO.		OSE FILE NO(RA-12721	S).		
OCATI	WELL OWN ConocoPh		•	-	1			PHONE (OPTION 432-258-345	,		
GENERAL AND WELL LOCATION	WELL OWN 901 W Wa		NG ADDRESS ite 100			-		CITY Midland		STATE TX	ZIP 79701
AND V	WELL	NV -		DEGREES 32	MINUTES 48	SECO:	NDS 56 N	* ACCURACY	ACCURACY REQUIRED: ONE TENTH OF A SECOND		
NERAI	(FROM GPS)		ATITUDE ONGITUDE	103	45	53.	.23 W		QUIRED: WGS 84		
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIIP, RANGE) WHERE AVAILABLE MCA 357										
	LICENSE NO		NAME OF LICEN	SED DRILLER	John W. Whit	e			NAME OF WELL DRI White D	ILLING COMPANY rilling Company, Inc	
	DRILLING S 04/27/		DRILLING ENDE 04/28/2020	D DEPTH OF C	DEPTH OF COMPLETED WELL (FT) 130.0 BORE HOLE DEPTH (FT)			DEPTH WATER FIRS	ST ENCOUNTERED (FT 124.25)	
	COMPLETED WELL IS: ARTESIAN			DRY H	DRY HOLE SHALLOW (UNCONFINED)			STATIC WATER LEV	TEL IN COMPLETED WI 124.25	ELL (FT)	
TION	DRILLING FLUID: AIR			☐ MUD	ADDIT	TVES – SPE	CIFY:	Υ:			
RMA	DRILLING M	METHOD:	✓ ROTARY	НАММ	ER CABLI	E TOOL	ОТНЕ	R – SPECIFY:			
(FO)	DEPTH	(feet bgl)	PODE HOL	E CASIN	G MATERIAL A	ND/OR			CASING		
CASING INFORMATION	FROM	то	BORE HOL DIAM (inches)	(includ	GRADE (include each casing string, and note sections of screen)			ASING NECTION YPE	INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
Ł CA	-2.7	90.0	6.0	1101	Sch. 40 PVC			ling diameter) hreads	2.0	1/4"	
NG 8	90.0	130.0	6.0		Sch. 40 PVC		Th	nreads	2.0	1/4"	.010
2. DRILLING &											
DR.											
7		<u> </u>									
									•		
	DEPTH	(feet bgl)	BORE HOL	E 1	LIST ANNULAR	SEAL MA	TERIAL A	AND	AMOUNT	METHO	DD OF
IAL	FROM	то	DIAM. (inch	es) GR	AVEL PACK SIZ	E-RANGI	E BY INTE	RVAL	(cubic feet)	PLACEI	
ANNULAR MATERIAL	0.0	10.0		Ty	ype 2 Portland Cer			Grout	1.963	Pump Mix w/	
MA	10.0	87.0				conite Chip	os .		22 Bags	Hand	
LAR	87.0	130.0	6.0		20)/40 Sand			16 Bags	Hand	Mix
3. Aľ											<u></u>
``											
FOR	OSE INTER	NAL US	E					WR-20	WELL RECORD &	& LOG (Version 04/3	30/19)
	E NO.	R	α	21	POD	1O.	5	TRN		2406	
LOC	ATION	, , ,	17	5.32	E. 28.4	42		WELL TAG II	O NO.	PAGE	1 OF 2

	DEPTH (i	eet bgl)	THICKNESS	COLOR AN	ID TYPE OF MATERIAL E	NCOUN	TERED -			TER	ESTIMATED YIELD FOR
	FROM	то	(feet)		ER-BEARING CAVITIES OF pplemental sheets to fully de			S	BEAR (YES		WATER- BEARING ZONES (gpm)
	0.0	0.5	0.5		Caliche base				Y	✓ N	
	0.5	2.0	1.5		Brown sand/sandstone				Y	✓ N	
	2.0	3.0	1.0		Red/brown sand/sandstor	ne			Y	√ N	
	3.0	17.0	14.0		Caliche				Y	√N	
	17.0	28.0	11.0		Light brown sand/sandsto	ne			Y	√ N	
T	28.0	37.0	9.0		Red/brown sand/sandstor	ne			Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL	37.0	42.0	5.0		Light brown sand/sandsto	ne			Y	√N	
OF	42.0	49.0	7.0		Red/brown silty sandstor	ne			Y	√N	
.0G	49.0	52.0	3.0		Gray sandstone				Y	√ N	
ист	52.0	60.0	8.0	Purple	, gray and light brown layers	of sandst	one		Y	√ N	
00T	60.0	80.0	20.0		Purple/brown sandstone	;			Y	✓ N	
EO	80.0	98.0	18.0		Brown and tan sandston	e			Y	✓N	
ROC	98.0	109.0	11.0		Light gray tan sandtston	e			Y	✓ N	
HYD	109.0	121.0	12.0		Green and brown mixes sand	stone			✓ Y	N	
4.	121.0	125.0	4.0	Y	ellow,brown and gray silty sa	ndstone			✓ Y	N	
	125.0	130.0	5.0		Green brown silty sandsto	ne			✓ Y	N	
					1 : 747-PL-TV				Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-BEARIN	G STRATA:		· i	TOT	AL ESTIN	MATED	
	PUMP AIR LIFT			BAILER OTHER – SPECIFY: W					LL YIELI	(gpm):	0.00
	WELL TES				TA COLLECTED DURING						
ISION				ME, AND A TABLE S	HOWING DISCHARGE AN	DRAV	VDOWN OV	EKIH	E IESIII	NG PERIC	
RVI	MISCELLA	NEOUS IN	FORMATION:								
TEST; RIG SUPERV											
S SI											
T; R											
TES	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	OVIDED ONSITE SUPERVI	SION OF	WELL CON	STRU	CTION O	THER TH	IAN LICENSEE:
ıv.	William B.	Atkins									
BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE A RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED A									TRUE A	ND CORRECT	
URE	WELL REG	FTHE ABC	ALSO BE FILED	WITH THE PERMIT	HOLDER WITHIN 30 DAYS	G, IF KE	THE COMP	LETIO	N OF WE	LL DRIL	LING.
VAT		1									
SIGNATURE		ha	_						05/1	1/2020	
9		ŞIĞNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME	_				DATE	
	I	/									
	R OSE INTER	NAL USE	1 10-	77	nonvo	· I		LL RE	CORD &	LOG (Ve	rsion 04/30/2019)
	E NO.	\mathcal{L}	1-12	121	POD NO.		TRN NO.	0	104	حان	DA CE O OF O
LO	CATION					WELL	TAG ID NO.				PAGE 2 OF 2



APPENDIX B

Photographic Log

ENSOLUM

Photographic Log Maverick Permian, LLC MCA 204 NAPP2311751602





Photograph 1 Description: Impacted soil from release

View: Northwest

6/30/2023 Photograph 2

Date:

6/30/2023

Description: Impacted soil from release

View: Northwest





Photograph 3

Date:

7/10/2023 Photograph 4

Date:

7/14/2023

Description: Excavation activities

Description: Excavation Activities

View: South

View: Southeast

ENSOLUM

Photographic Log Maverick Permian, LLC MCA 204 NAPP2311751602



Photograph 1 Date: 7/17/2023 Photograph 2

Description: Excavation Activities

View: Northwest



Photograph 2 Date: 7/17/2023

Description: Excavation Activities

View: Southeast



Photograph 3 Date: 7/18/2023 Photograph 4 Date: 7/18/2023

Description: Completed excavation Description: Completed excavation

View: South View: South





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation

Report to:
Tom Bynum



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Pima Environmental Services-Carlsbad

Project Name: MCA 204

Work Order: E304214

Job Number: 21064-0001

Received: 4/28/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 5/4/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 5/4/23

Tom Bynum PO Box 247 Plains, TX 79355-0247

Project Name: MCA 204 Workorder: E304214

Date Received: 4/28/2023 8:45:00AM

Tom Bynum,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/28/2023 8:45:00AM, under the Project Name: MCA 204.

The analytical test results summarized in this report with the Project Name: MCA 204 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881

Cell: 775-287-1762

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Rayny Hagan

West Texas Midland/Odessa Area

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	Reported:
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/04/23 16:23

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S1 - 1'	E304214-01A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S1 - 3'	E304214-02A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S1 - 4'	E304214-03A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 1'	E304214-04A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 3'	E304214-05A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 4'	E304214-06A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S3 - 1'	E304214-07A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S3 - 3'	E304214-08A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S3 - 4'	E304214-09A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S4 - 1'	E304214-10A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S4 - 3 '	E304214-11A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S4 - 4'	E304214-12A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW1	E304214-13A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW2	E304214-14A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW3	E304214-15A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW4	E304214-16A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW5	E304214-17A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
SW6	E304214-18A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S1 - 5'	E304214-19A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S2 - 5'	E304214-20A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S3 - 5'	E304214-21A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.
S4 - 5'	E304214-22A	Soil	04/26/23	04/28/23	Glass Jar, 2 oz.



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S1 - 1' E304214-01

		E504214-01				
	D 1	Reporting				
Analyte	Result	Limit	Diluti	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	analyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	0.164	0.0250	1	05/01/23	05/03/23	
Toluene	ND	0.0250	1	05/01/23	05/03/23	
o-Xylene	0.155	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	0.258	0.0500	1	05/01/23	05/03/23	
Total Xylenes	0.413	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.7 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	nalyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.7 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	nalyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	698	50.0	2	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	293	100	2	05/01/23	05/02/23	
Surrogate: n-Nonane		83.7 %	50-200	05/01/23	05/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	analyst: BA		Batch: 2318020
Chloride	495	20.0	1	05/01/23	05/04/23	



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S1 - 3' E304214-02

		E304214-02					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: Γ	Y		Batch: 2318027
Benzene	ND	0.0250	1		05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1	l	05/01/23	05/03/23	
Toluene	ND	0.0250	1	l	05/01/23	05/03/23	
o-Xylene	ND	0.0250	1	Į.	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	Į.	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1	ļ	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.4 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: I	Y		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.4 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	M		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0	1		05/01/23	05/02/23	_
Oil Range Organics (C28-C36)	ND	50.0	1		05/01/23	05/02/23	
Surrogate: n-Nonane		80.6 %	50-200		05/01/23	05/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2318020
Chloride	272	20.0	1		05/01/23	05/03/23	



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S1 - 4'

		E304214-03							
Reporting									
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2318027		
Benzene	ND	0.0250]	1	05/01/23	05/03/23			
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23			
Toluene	ND	0.0250		1	05/01/23	05/03/23			
o-Xylene	ND	0.0250		1	05/01/23	05/03/23			
p,m-Xylene	ND	0.0500]	1	05/01/23	05/03/23			
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23			
Surrogate: Bromofluorobenzene		106 %	70-130		05/01/23	05/03/23			
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/01/23	05/03/23			
Surrogate: Toluene-d8		98.5 %	70-130		05/01/23	05/03/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2318027		
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23			
Surrogate: Bromofluorobenzene		106 %	70-130		05/01/23	05/03/23			
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/01/23	05/03/23			
Surrogate: Toluene-d8		98.5 %	70-130		05/01/23	05/03/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	KM		Batch: 2318001		
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/02/23	·		
Oil Range Organics (C28-C36)	ND	50.0	:	1	05/01/23	05/02/23			
Surrogate: n-Nonane		78.4 %	50-200		05/01/23	05/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: E	BA		Batch: 2318020		
					•		•		

20.0

86.0

05/01/23

05/03/23

Chloride

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S2 - 1'

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	IY		Batch: 2318027
Benzene	ND	0.0250	1		05/01/23	05/03/23	
Ethylbenzene	0.388	0.0250	1		05/01/23	05/03/23	
Toluene	0.0635	0.0250	1		05/01/23	05/03/23	
o-Xylene	0.329	0.0250	1		05/01/23	05/03/23	
p,m-Xylene	0.522	0.0500	1		05/01/23	05/03/23	
Total Xylenes	0.851	0.0250	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		111 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		101 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst: l	IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	36.9	20.0	1	l	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		111 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		104 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		101 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: l	KM		Batch: 2318001
Diesel Range Organics (C10-C28)	950	50.0	2	2	05/01/23	05/04/23	
Oil Range Organics (C28-C36)	370	100	2	2	05/01/23	05/04/23	
Surrogate: n-Nonane		86.0 %	50-200		05/01/23	05/04/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: l	BA		Batch: 2318020

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S2 - 3'

		E304214-05						
Reporting								
Analyte	Result	Limit	Dilutio	on Prepared	Analyzed	Notes		
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2318027		
Benzene	ND	0.0250	1	05/01/23	05/03/23			
Ethylbenzene	ND	0.0250	1	05/01/23	05/03/23			
Toluene	ND	0.0250	1	05/01/23	05/03/23			
o-Xylene	ND	0.0250	1	05/01/23	05/03/23			
p,m-Xylene	ND	0.0500	1	05/01/23	05/03/23			
Total Xylenes	ND	0.0250	1	05/01/23	05/03/23			
Surrogate: Bromofluorobenzene		112 %	70-130	05/01/23	05/03/23			
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	05/01/23	05/03/23			
Surrogate: Toluene-d8		101 %	70-130	05/01/23	05/03/23			
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Aı	nalyst: IY		Batch: 2318027		
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23			
Surrogate: Bromofluorobenzene		112 %	70-130	05/01/23	05/03/23			
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130	05/01/23	05/03/23			
Surrogate: Toluene-d8		101 %	70-130	05/01/23	05/03/23			
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Aı	nalyst: KM		Batch: 2318001		
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/02/23			
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/02/23			
Surrogate: n-Nonane		79.0 %	50-200	05/01/23	05/02/23			
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Aı	nalyst: BA		Batch: 2318020		
Chloride	ND	20.0	1	05/01/23	05/04/23	<u> </u>		

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S2 - 4'

E304	421	4 0/
H 3112	1/1	4_116

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2318027
Benzene	ND	0.0250	1	l	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1	l	05/01/23	05/03/23	
Toluene	ND	0.0250	1	l	05/01/23	05/03/23	
o-Xylene	ND	0.0250	1	l	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	l	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1	<u> </u>	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		108 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2318001
Diesel Range Organics (C10-C28)	110	25.0	1		05/01/23	05/02/23	
Oil Range Organics (C28-C36)	51.4	50.0	1	<u> </u>	05/01/23	05/02/23	
Surrogate: n-Nonane		83.6 %	50-200		05/01/23	05/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2318020
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Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	0.316	0.0250	1	05/01/23	05/03/23	
Toluene	0.0300	0.0250	1	05/01/23	05/03/23	
o-Xylene	0.253	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	0.456	0.0500	1	05/01/23	05/03/23	
Total Xylenes	0.708	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		115 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		102 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	21.5	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		115 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		105 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		102 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	1280	250	10	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	559	500	10	05/01/23	05/02/23	
Surrogate: n-Nonane		84.2 %	50-200	05/01/23	05/02/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: BA		Batch: 2318020

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

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		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	0.116	0.0250	1	05/01/23	05/03/23	
Toluene	ND	0.0250	1	05/01/23	05/03/23	
o-Xylene	0.161	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	0.221	0.0500	1	05/01/23	05/03/23	
Total Xylenes	0.382	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.9 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	ılyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.9 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	ılyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	1220	250	10	05/01/23	05/02/23	
Oil Range Organics (C28-C36)	ND	500	10	05/01/23	05/02/23	
Surrogate: n-Nonane		78.9 %	50-200	05/01/23	05/02/23	
			A	least. D.A		Batch: 2318020
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	ılyst: BA		Batch: 2318020



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

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		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: IY			Batch: 2318027
Benzene	ND	0.0250	1		05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1		05/01/23	05/03/23	
Toluene	ND	0.0250	1		05/01/23	05/03/23	
o-Xylene	ND	0.0250	1		05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1		05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		107 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		97.9 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: IY			Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		107 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		106 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		97.9 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM	I		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0	1		05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1		05/01/23	05/03/23	
Surrogate: n-Nonane		86.0 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: BA			Batch: 2318020
Allions by ETA 500:0/7050A							

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

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		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: I	Y		Batch: 2318027
Benzene	ND	0.0250	1		05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1		05/01/23	05/03/23	
Toluene	ND	0.0250	1		05/01/23	05/03/23	
o-Xylene	0.0300	0.0250	1		05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1		05/01/23	05/03/23	
Total Xylenes	0.0300	0.0250	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: I	Y		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1		05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		108 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: I	KM		Batch: 2318001
Diesel Range Organics (C10-C28)	53.7	25.0	1		05/01/23	05/03/23	
Oil Range Organics (C28-C36)	98.9	50.0	1	l	05/01/23	05/03/23	
Surrogate: n-Nonane		83.3 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	ВА		Batch: 2318020
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Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S4 - 3 '

		200.21.11					
Aughte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Analyte	Result	Limit	Dil	ution	Prepared	Anaiyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2318027
Benzene	ND	0.0250		1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23	
Toluene	ND	0.0250		1	05/01/23	05/03/23	
o-Xylene	ND	0.0250		1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		97.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		97.3 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		86.4 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2318020
Chloride	ND	20.0		1	05/01/23	05/03/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

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		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/03/23	
Toluene	ND	0.0250	1	05/01/23	05/03/23	
o-Xylene	ND	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.0 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		106 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		109 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		98.0 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Α	Analyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	111	25.0	1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	51.5	50.0	1	05/01/23	05/03/23	
Surrogate: n-Nonane		86.8 %	50-200	05/01/23	05/03/23	
	mg/kg	mg/kg	A	Analyst: BA		Batch: 2318020
Anions by EPA 300.0/9056A		88				



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
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SW1 E304214-13

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Result	Reporting Limit		on Prepared	Analyzed	Notes
mg/kg	mo/ko	Ar			Batch: 2318027
		1	05/01/23	05/03/23	
		1	05/01/23	05/03/23	
ND	0.0250	1	05/01/23	05/03/23	
ND	0.0250	1	05/01/23	05/03/23	
ND	0.0500	1	05/01/23	05/03/23	
ND	0.0250	1	05/01/23	05/03/23	
	107 %	70-130	05/01/23	05/03/23	
	106 %	70-130	05/01/23	05/03/23	
	99.8 %	70-130	05/01/23	05/03/23	
mg/kg	mg/kg	Ar	nalyst: IY		Batch: 2318027
ND	20.0	1	05/01/23	05/03/23	
	107 %	70-130	05/01/23	05/03/23	
	106 %	70-130	05/01/23	05/03/23	
	99.8 %	70-130	05/01/23	05/03/23	
mg/kg	mg/kg	Ar	nalyst: KM		Batch: 2318001
ND	25.0	1	05/01/23	05/03/23	-
ND	50.0	1	05/01/23	05/03/23	
	85.9 %	50-200	05/01/23	05/03/23	
mg/kg	mg/kg	Ar	nalyst: BA		Batch: 2318020
	mg/kg ND	Result Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 IO7 % 106 % 99.8 % mg/kg ND 20.0 107 % 106 % 99.8 % mg/kg MD 25.0 ND 50.0	mg/kg mg/kg And ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0250 1 ND 0.0500 1 ND 0.0250 1 106 % 70-130 70-130 99.8 % 70-130 106 % ND 20.0 1 106 % 70-130 106 % 99.8 % 70-130 mg/kg mg/kg And ND 25.0 1 ND 50.0 1	Result Limit Dilution Prepared mg/kg mg/kg Analyst: IY ND 0.0250 1 05/01/23 ND 0.0250 1 05/01/23 ND 0.0250 1 05/01/23 ND 0.0250 1 05/01/23 ND 0.0500 1 05/01/23 ND 0.0250 1 05/01/23 ND 70-130 05/01/23 106 % 70-130 05/01/23 99.8 % 70-130 05/01/23 mg/kg mg/kg Analyst: IY ND 20.0 1 05/01/23 106 % 70-130 05/01/23 106 % 70-130 05/01/23 99.8 % 70-130 05/01/23 99.8 % 70-130 05/01/23 mg/kg mg/kg Analyst: KM ND 25.0 1 05/01/23 ND 50.0 1 05/01/23	Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: IY ND 0.0250 1 05/01/23 05/03/23 ND 0.0500 1 05/01/23 05/03/23 ND 0.0250 1 05/01/23 05/03/23 ND 0.0250 1 05/01/23 05/03/23 ND 70-130 05/01/23 05/03/23 106 % 70-130 05/01/23 05/03/23 mg/kg mg/kg Analyst: IY ND 20.0 1 05/01/23 05/03/23 106 % 70-130 05/01/23 05/03/23 106 % 70-130 05/01/23 05/03/23 99.8 % 70-130 05/01/23 05/03/23 mg/kg mg/kg



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

SW2

E304214-	14

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analys	t: IY		Batch: 2318027
Benzene	ND	0.0250		1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23	
Toluene	ND	0.0250		1	05/01/23	05/03/23	
o-Xylene	ND	0.0250		1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.0 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analys	t: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		107 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.0 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analys	t: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		85.6 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analys	t: BA		Batch: 2318020
Chloride	ND	20.0		1	05/01/23	05/04/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
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Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

SW3

E304214-15

		Reporting				
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/03/23	
Toluene	ND	0.0250	1	05/01/23	05/03/23	
o-Xylene	ND	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.3 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		113 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.3 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/03/23	
Surrogate: n-Nonane		82.6 %	50-200	05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2318020
Allions by ETA 500:0/7050A						

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

SW4

E304214-16

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2318027
Benzene	ND	0.0250		1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23	
Toluene	ND	0.0250		1	05/01/23	05/03/23	
o-Xylene	ND	0.0250		1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		106 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.5 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		106 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		112 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.5 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		90.0 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2318020
Chloride	ND	20.0		1	05/01/23	05/04/23	



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

SW5

E304	214	-17
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		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2318027
Benzene	ND	0.0250		1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23	
Toluene	ND	0.0250		1	05/01/23	05/03/23	
o-Xylene	ND	0.0250		1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.6 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		98.6 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		85.7 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2318020
	ND	20.0		1	05/01/23	05/04/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

SW6

E304214-18

		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	g mg/kg An		Analyst	: IY		Batch: 2318027
Benzene	ND	0.0250		1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/03/23	
Toluene	ND	0.0250		1	05/01/23	05/03/23	
o-Xylene	ND	0.0250		1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.8 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		105 %	70-130		05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130		05/01/23	05/03/23	
Surrogate: Toluene-d8		99.8 %	70-130		05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		87.5 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2318020
· · · · · · · · · · · · · · · · · · ·	ND	20.0		1	05/01/23	05/04/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S1 - 5' E304214-19

		200121112				
Analyte	Result	Reporting Limit	Dilutio	on Prepared	Analyzed	Notes
	mg/kg	mg/kg		nalyst: IY		Batch: 2318027
Volatile Organic Compounds by EPA 8260B	ND	0.0250	1	05/01/23	05/03/23	Batch: 2310027
Benzene	ND ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	ND ND	0.0250	1	05/01/23	05/03/23	
Toluene	ND ND	0.0250	1	05/01/23	05/03/23	
o-Xylene			1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1			
Surrogate: Bromofluorobenzene		107 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.5 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	An	nalyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		107 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		110 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.5 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	An	nalyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/03/23	
Surrogate: n-Nonane		87.4 %	50-200	05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	An	nalyst: BA		Batch: 2318020
Chloride	ND	20.0	1	05/01/23	05/04/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S2 - 5' E304214-20

		E304214-20				
Andre	D14	Reporting		: D	A l	Nister
Analyte	Result	Limit	Dilut	ion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B		mg/kg	A	Analyst: IY		Batch: 2318027
Benzene	ND	0.0250	1	05/01/23	05/03/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/03/23	
Toluene	ND	0.0250	1	05/01/23	05/03/23	
o-Xylene	ND	0.0250	1	05/01/23	05/03/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/03/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.0 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2318027
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/03/23	
Surrogate: Bromofluorobenzene		104 %	70-130	05/01/23	05/03/23	
Surrogate: 1,2-Dichloroethane-d4		111 %	70-130	05/01/23	05/03/23	
Surrogate: Toluene-d8		99.0 %	70-130	05/01/23	05/03/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2318001
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/03/23	
Surrogate: n-Nonane		88.2 %	50-200	05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: BA		Batch: 2318020
Chloride	ND	20.0	1	05/01/23	05/04/23	

Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
PO Box 247	Project Number:	21064-0001	Reported:
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S3 - 5'

		E304214-21					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	IY		Batch: 2318007
Benzene	ND	0.0250		1	05/01/23	05/01/23	
Ethylbenzene	ND	0.0250		1	05/01/23	05/01/23	
Toluene	ND	0.0250		1	05/01/23	05/01/23	
o-Xylene	ND	0.0250		1	05/01/23	05/01/23	
p,m-Xylene	ND	0.0500		1	05/01/23	05/01/23	
Total Xylenes	ND	0.0250		1	05/01/23	05/01/23	
Surrogate: Bromofluorobenzene		96.1 %	70-130		05/01/23	05/01/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		05/01/23	05/01/23	
Surrogate: Toluene-d8		99.1 %	70-130		05/01/23	05/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	IY		Batch: 2318007
Gasoline Range Organics (C6-C10)	ND	20.0		1	05/01/23	05/01/23	
Surrogate: Bromofluorobenzene		96.1 %	70-130		05/01/23	05/01/23	
Surrogate: 1,2-Dichloroethane-d4		103 %	70-130		05/01/23	05/01/23	
Surrogate: Toluene-d8		99.1 %	70-130		05/01/23	05/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	RAS		Batch: 2318006
Diesel Range Organics (C10-C28)	ND	25.0		1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0		1	05/01/23	05/03/23	
Surrogate: n-Nonane		92.0 %	50-200		05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2318010
		•					•

20.0

05/01/23

05/02/23

ND

Chloride

Pima	a Environmental Services-Carlsbad	Project Name:	MCA 204	
PO E	Box 247	Project Number:	21064-0001	Reported:
Plair	ns TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

S4 - 5'

		E304214-22				
		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: IY		Batch: 2318007
Benzene	ND	0.0250	1	05/01/23	05/01/23	
Ethylbenzene	ND	0.0250	1	05/01/23	05/01/23	
Toluene	ND	0.0250	1	05/01/23	05/01/23	
o-Xylene	ND	0.0250	1	05/01/23	05/01/23	
p,m-Xylene	ND	0.0500	1	05/01/23	05/01/23	
Total Xylenes	ND	0.0250	1	05/01/23	05/01/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130	05/01/23	05/01/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	05/01/23	05/01/23	
Surrogate: Toluene-d8		101 %	70-130	05/01/23	05/01/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: IY		Batch: 2318007
Gasoline Range Organics (C6-C10)	ND	20.0	1	05/01/23	05/01/23	
Surrogate: Bromofluorobenzene		97.3 %	70-130	05/01/23	05/01/23	
Surrogate: 1,2-Dichloroethane-d4		98.2 %	70-130	05/01/23	05/01/23	
Surrogate: Toluene-d8		101 %	70-130	05/01/23	05/01/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2318006
Diesel Range Organics (C10-C28)	ND	25.0	1	05/01/23	05/03/23	
Oil Range Organics (C28-C36)	ND	50.0	1	05/01/23	05/03/23	
Surrogate: n-Nonane		92.6 %	50-200	05/01/23	05/03/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: RAS		Batch: 2318010
Chloride	ND	20.0	1	05/01/23	05/02/23	



MCA 204 Pima Environmental Services-Carlsbad Project Name: Reported: Project Number: PO Box 247 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 5/4/2023 4:23:19PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2318007-BLK1) Prepared: 05/01/23 Analyzed: 05/01/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.494 0.500 98.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.498 0.500 99.5 70-130 0.500 102 70-130 Surrogate: Toluene-d8 0.512 LCS (2318007-BS1) Prepared: 05/01/23 Analyzed: 05/01/23 2.41 0.0250 2.50 96.5 70-130 Benzene 2.50 94.9 70-130 2.37 Ethylbenzene 0.0250 2.35 0.0250 2.50 93.8 70-130 2.40 70-130 0.0250 2.50 96.1 o-Xylene 4.72 5.00 94.4 70-130 p,m-Xylene 0.0500 7.12 0.0250 7.50 95.0 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.493 0.500 98.5 70-130 0.500 101 70-130 Surrogate: 1,2-Dichloroethane-d4 0.507 70-130 Surrogate: Toluene-d8 0.502 0.500 Matrix Spike (2318007-MS1) Source: E304208-02 Prepared: 05/01/23 Analyzed: 05/01/23 2.32 0.0250 2.50 ND 92.7 48-131 45-135 Ethylbenzene 2.26 0.0250 2.50 ND 90.3 48-130 Toluene 2.24 0.0250 2.50 ND 89.6 2.29 0.0250 2.50 ND 91.7 43-135 o-Xylene 4.49 ND 89.8 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 6.78 0.0250 7.50 ND 90.4 43-135 98.8 0.494 0.500 70-130 Surrogate: Bromofluorobenzene 0.500 99.7 70-130 Surrogate: 1,2-Dichloroethane-d4 0.499 0.500 70-130 0.498 99.6 Surrogate: Toluene-d8 Matrix Spike Dup (2318007-MSD1) Source: E304208-02 Prepared: 05/01/23 Analyzed: 05/01/23 2.31 0.0250 2.50 ND 92.6 48-131 0.108 23 0.0250 2.50 ND 92.1 45-135 1.97 27 Ethylbenzene ND 48-130 2.64 24 2.30 2.50 92.0 Toluene 0.0250 o-Xylene 2.40 0.0250 2.50 ND 96.0 43-135 4.58 27 5.00 ND 94.4 43-135 5.04 27 4.72 p,m-Xylene 0.0500 27 7.12 0.0250 7.50 ND 95.0 43-135 4.88 Total Xylenes Surrogate: Bromofluorobenzene 0.503 0.500 101 70-130 0.500 99.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.496



0.500

101

70-130

0.506

Surrogate: Toluene-d8

MCA 204 Pima Environmental Services-Carlsbad Project Name: Reported: Project Number: PO Box 247 21064-0001 Plains TX, 79355-0247 Project Manager: Tom Bynum 5/4/2023 4:23:19PM **Volatile Organic Compounds by EPA 8260B** Analyst: IY Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % % Notes Blank (2318027-BLK1) Prepared: 05/01/23 Analyzed: 05/02/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 Surrogate: 1,2-Dichloroethane-d4 0.550 0.500 110 70-130 0.500 99.2 70-130 Surrogate: Toluene-d8 0.496 LCS (2318027-BS1) Prepared: 05/01/23 Analyzed: 05/02/23 2.51 0.0250 2.50 100 70-130 Benzene 2.50 98.5 70-130 2.46 Ethylbenzene 0.0250 2.50 0.0250 2.50 100 70-130 2.43 97.2 70-130 0.0250 2.50 o-Xylene 4.83 5.00 96.5 70-130 p,m-Xylene 0.0500 7.26 0.0250 7.50 96.7 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.549 0.500 110 70-130 0.500 116 70-130 Surrogate: 1,2-Dichloroethane-d4 0.578 70-130 Surrogate: Toluene-d8 0.505 0.500 Matrix Spike (2318027-MS1) Source: E304214-02 Prepared: 05/01/23 Analyzed: 05/03/23 2.45 0.0250 2.50 ND 98.2 48-131 45-135 Ethylbenzene 2.36 0.0250 2.50 ND 94.6 95.0 48-130 Toluene 2.37 0.0250 2.50 ND 2.35 0.0250 2.50 ND 93.9 43-135 o-Xylene 4.63 ND 92.6 43-135 p,m-Xylene 0.0500 5.00 Total Xylenes 6.98 0.0250 7.50 ND 93.1 43-135 0.542 0.500 108 70-130 Surrogate: Bromofluorobenzene 0.500 108 70-130 Surrogate: 1,2-Dichloroethane-d4 0.538 0.500 70-130 0.499 99.8 Surrogate: Toluene-d8 Matrix Spike Dup (2318027-MSD1) Source: E304214-02 Prepared: 05/01/23 Analyzed: 05/03/23 2.54 0.0250 2.50 ND 101 48-131 3.25 23 0.0250 2.50 ND 98.7 45-135 4.24 27 Ethylbenzene ND 99.4 48-130 4.61 24 2.49 2.50 Toluene 0.0250 o-Xylene 2.44 0.0250 2.50 ND 97.4 43-135 3.62 27 4.82 5.00 ND 96.3 43-135 3.89 27 p,m-Xylene 0.0500 27 7.25 0.0250 7.50 ND 96.7 43-135 3.79 Total Xylenes Surrogate: Bromofluorobenzene 0.543 0.500 109 70-130 0.500 108 70-130 Surrogate: 1,2-Dichloroethane-d4 0.539



0.500

99.0

70-130

0.495

Surrogate: Toluene-d8

Pima Environmental Services-CarlsbadProject Name:MCA 204Reported:PO Box 247Project Number:21064-0001Plains TX, 79355-0247Project Manager:Tom Bynum5/4/2023 4:23:19PM

Plains TX, 79355-0247		Project Manager	r: To	m Bynum				5/4	1/2023 4:23:19PI
	Non		Analyst: IY						
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2318007-BLK1)							Prepared: 0	5/01/23 Anal	yzed: 05/01/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.494		0.500		98.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.512		0.500		102	70-130			
LCS (2318007-BS2)							Prepared: 0	5/01/23 Anal	yzed: 05/01/23
Gasoline Range Organics (C6-C10)	45.1	20.0	50.0		90.1	70-130			
Surrogate: Bromofluorobenzene	0.497		0.500		99.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike (2318007-MS2)				Source:	E304208-	02	Prepared: 0	5/01/23 Anal	yzed: 05/01/23
Gasoline Range Organics (C6-C10)	43.5	20.0	50.0	ND	87.1	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.518		0.500		104	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
Matrix Spike Dup (2318007-MSD2)				Source	E304208-0)2	Prepared: 0:	5/01/23 Analyzed: 05/0	01/23
Gasoline Range Organics (C6-C10)	42.2	20.0	50.0	ND	84.3	70-130	3.23	20	
Surrogate: Bromofluorobenzene	0.487		0.500		97.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.510		0.500		102	70-130			
Surrogate: Toluene-d8	0.506		0.500		101	70-130			

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

Pima Environmental Services-CarlsbadProject Name:MCA 204Reported:PO Box 247Project Number:21064-0001Plains TX, 79355-0247Project Manager:Tom Bynum5/4/2023 4:23:19PM

Plains TX, 79355-0247		Project Manager	: To	m Bynum				5/	/4/2023 4:23:19PM
	Nor	nhalogenated (Organics l	by EPA 80	15D - G	RO			Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2318027-BLK1)							Prepared: 0:	5/01/23 Ana	lyzed: 05/02/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.550		0.500		110	70-130			
Surrogate: Toluene-d8	0.496		0.500		99.2	70-130			
LCS (2318027-BS2)							Prepared: 0	5/01/23 Ana	lyzed: 05/02/23
Gasoline Range Organics (C6-C10)	44.3	20.0	50.0		88.5	70-130			
Surrogate: Bromofluorobenzene	0.544		0.500		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.558		0.500		112	70-130			
Surrogate: Toluene-d8	0.510		0.500		102	70-130			
Matrix Spike (2318027-MS2)				Source:	E304214-	02	Prepared: 0:	5/01/23 Ana	lyzed: 05/03/23
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.7	70-130			
Surrogate: Bromofluorobenzene	0.539		0.500		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.525		0.500		105	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			
Matrix Spike Dup (2318027-MSD2)				Source:	E304214-	02	Prepared: 0	5/01/23 Ana	lyzed: 05/03/23
Gasoline Range Organics (C6-C10)	47.9	20.0	50.0	ND	95.8	70-130	0.122	20	

0.500

0.500

0.500

0.542

0.537

0.507

108

107

101

70-130

70-130

70-130



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					5/4/2023 4:23:19PM			
Nonhalogenated Organics by EPA 8015D - DRO/ORO												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2318001-BLK1)							Prepared: 0	5/01/23 Ar	nalyzed: 05/02/23			
Diesel Range Organics (C10-C28)	ND	25.0										
Dil Range Organics (C28-C36)	ND	50.0										
urrogate: n-Nonane	41.8		50.0		83.5	50-200						
LCS (2318001-BS1)							Prepared: 0	5/01/23 Ar	nalyzed: 05/02/23			
Diesel Range Organics (C10-C28)	264	25.0	250		105	38-132						
urrogate: n-Nonane	44.5		50.0		89.1	50-200						
Matrix Spike (2318001-MS1)				Source:	E304214-	04	Prepared: 0	5/01/23 Ar	nalyzed: 05/04/23			
Diesel Range Organics (C10-C28)	1210	50.0	250	950	104	38-132						
urrogate: n-Nonane	43.7		50.0		87.4	50-200						
Matrix Spike Dup (2318001-MSD1)				Source:	E304214-	04	Prepared: 0	5/01/23 Ar	nalyzed: 05/04/23			
Diesel Range Organics (C10-C28)	1330	50.0	250	950	153	38-132	9.60	20	M2			
'urrogate: n-Nonane	41.8		50.0		83.6	50-200						



Pima Environmental Services-Carlsbad	Project Name:	MCA 204	Reported:
PO Box 247	Project Number:	21064-0001	
Plains TX, 79355-0247	Project Manager:	Tom Bynum	5/4/2023 4:23:19PM

Plains TX, 79355-0247		Project Manage	r: To	m Bynum					5/4/2023 4:23:19PM
	Nonhal	logenated Or	ganics by	EPA 8015I	D - DRO	/ORO			Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2318006-BLK1)							Prepared: 0	5/01/23 A	nalyzed: 05/02/23
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.0		50.0		99.9	50-200			
.CS (2318006-BS1)							Prepared: 0	5/01/23 A	nalyzed: 05/02/23
riesel Range Organics (C10-C28)	264	25.0	250		106	38-132			
urrogate: n-Nonane	45.5		50.0		91.0	50-200			
Aatrix Spike (2318006-MS1)				Source:	E304208-	10	Prepared: 0	5/01/23 A	nalyzed: 05/02/23
riesel Range Organics (C10-C28)	259	25.0	250	ND	103	38-132			
urrogate: n-Nonane	43.5		50.0		87.0	50-200			
Matrix Spike Dup (2318006-MSD1)				Source:	E304208-	10	Prepared: 0	5/01/23 A	nalyzed: 05/02/23
tiesel Range Organics (C10-C28)	267	25.0	250	ND	107	38-132	3.24	20	
urrogate: n-Nonane	45.6		50.0		91.1	50-200			



Matrix Spike (2318010-MS1)

Matrix Spike Dup (2318010-MSD1)

Chloride

Chloride

251

251

Prepared: 05/01/23 Analyzed: 05/02/23

Prepared: 05/01/23 Analyzed: 05/02/23

20

QC Summary Data

Pima Environmental Services-Carlsbac PO Box 247 Plains TX, 79355-0247	1	Project Name: Project Number Project Manager	: 2	ACA 204 1064-0001 Com Bynum					Reported: 5/4/2023 4:23:19PM
		Anions	by EPA	300.0/9056 <i>A</i>	\				Analyst: RAS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2318010-BLK1)							Prepared: 0	5/01/23 A	analyzed: 05/02/23
Chloride	ND	20.0							
LCS (2318010-BS1)							Prepared: 0	5/01/23 A	analyzed: 05/02/23
Chloride	251	20.0	250		100	90-110			

250

250

20.0

20.0

Source: E304193-21

Source: E304193-21

100

100

80-120

80-120

0.0112

ND

ND

Pima Environmental Services-Carlsbad	Į.	Project Name:		CA 204					Reported:
PO Box 247 Plains TX, 79355-0247		Project Number: Project Manager:		1064-0001 om Bynum					5/4/2023 4:23:19PM
		Anions	by EPA 3	300.0/9056	4				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2318020-BLK1)							Prepared: 0:	5/01/23 A	nalyzed: 05/03/23
Chloride	ND	20.0							
LCS (2318020-BS1)							Prepared: 0	5/01/23 A	nalyzed: 05/03/23
Chloride	247	20.0	250		98.7	90-110			
Matrix Spike (2318020-MS1)				Source:	E304214-	01	Prepared: 0:	5/01/23 A	nalyzed: 05/03/23
Chloride	776	20.0	250	495	112	80-120			
Matrix Spike Dup (2318020-MSD1)				Source:	E304214-	01	Prepared: 0	5/01/23 A	nalyzed: 05/03/23
Chloride	776	20.0	250	495	112	80-120	0.0318	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

ſ	Pima Environmental Services-Carlsbad	Project Name:	MCA 204	
ı	PO Box 247	Project Number:	21064-0001	Reported:
1	Plains TX, 79355-0247	Project Manager:	Tom Bynum	05/04/23 16:23

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Clit- D			al Cond	000	WANTED TO THE PARTY OF THE PART	Bill To				La	b Us	e On	lv		T		TA	T		EPA P	rogram
	ma Envi		al Servi	UES	Attent	ion: Pima		Lab	WO#	-		Job I	Num	ber	1D	2D	3D	Stan	dard	CWA	SDWA
	lanager:		num	A STATE OF THE STA	Addres			F	WOH 304	214		210	LOU	1000		1		7	(
	5614 N.				70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	tate, Zip		-				Analy	sis ar	nd Metho	d						RCRA
	e, Zip Ho				Phone				Г						T	T					
	580-748-		n. 002-10	<u></u>	Email		11/2	15	15						1					State	
	om@pin		n		Mary St.			y 80	y 80	п	0		0.0		5			N	и со	UT AZ	TX
Report d			- Committee of		Pima	Project # 24 - 7		0 b	0 b	, 802	826	6010	e 30		N N	¥		2	4		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	<u> </u>		Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	ВТЕХ ЬУ 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC	BGDOC				Remarks	
	4126/23	Soil	. 1		51-1	1	1								X						
	110 4105)			51-3	1	2														
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					52-		5														
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Addition	nal Instruc	tions:																			
				nticity of this sample I may be grounds for		t tampering with or intentionally mis <u>Sampled by:</u>	abelling the samp	le loca	tion,	Y		02000000	DOMESTIC STATE	uiring therma e at an avg ter	KINDLANDYA						oled or received
Relinquish	eres ca	ature)	/ Inat	D-23 Tim	00	Received by: (Signature)	Date 4-2	1,23	Time	40	U	Rec	eive	d on ice:		Lab /	Use O	nly			
Relinquish	ned by: (Sign	ature)	Dat		745	Received by: (Signature)	Date 4:2	7.23	3 Time	900	>	T1			T2			I	3	1	
Relinquish	ned by: (Sign		Dat		333	Received by: Kignature	t 9/2	8/8	Tim	8.4		AV	G Te	mp °C	4						
		4 Calla Ca	Cludes A	Aguagus O Othor			Contain	er Typ	pe: g -	glass	, p -	poly/p	lasti	c, ag - am	ber g	lass, v	- VOA	\			
Note: San	anlas ara dis	carded 30	days after i	results are reporte	d unless other	arrangements are made. Hazar	dous samples w	ill be r	eturne	ed to c	lient	or disp	osed	of at the c	ient e	xpens	e. The	report fo	r the an	alysis of the	e above
samples i	s applicable	only to tho	se samples	received by the la	boratory with	this COC. The liability of the labo	ratory is limited	to the	amou	ınt pai	id for	on the	repo	rt.							



Page 37 of 40

RCRA

Page $\frac{2}{3}$ of $\frac{3}{3}$

State

Remarks

NM CO UT AZ TX

TAT

1D 2D 3D Standard

Σ

BGDOC

Bill To

Attention: Pima

Pima Project # 24 - 7

Address:

Email:

SWI

City, State, Zip Phone:

Lab Use Only

Lab WO# E 304214

BTEX by 8021 VOC by 8260

DRO/ORO by 8015

Lab

Number

12

Job Number 21064-0001

Chloride 300.0

Metals 6010

Analysis and Method

Project Information

Project: MCA 204 Project Manager: Tom Bynum

Phone: 580-748-1613

Report due by:

Time

Sampled

Email: tom@pimaoil.com

Date

Sampled

4/26/23

Client: Pima Environmental Services

Address: 5614 N. Lovington Hwy.

City, State, Zip Hobbs. NM. 88240

Matrix

No. of

Containers

Sample ID

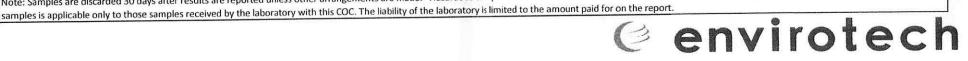
Received by OCD: 8/10/2023 2:51:13 PM

/	SW 2	19		
	Sw3	15		
	SW 4	16		
	SW5	17		
	swb	18		
	\$1-5'	19		
	\$2-5'	20		
Additional Instructions:				
I, (field sampler), attest to the validity and a	uthenticity of this sample. I am aware that tampering with or intentionally mislabelling dand may be grounds for legal action. Sampled by:	g the sample location,	Samples requiring thermal preservation must be receive packed in ice at an avg temp above 0 but less than 6 °C c	
Relinquished by: (Signature)	Date Time Received by: (Signature) Auguly Type	Date 4 27 23 Time 1400	Received on ice: Y / N	
Relinquished by: (Signature)	Date 4.7.3 Time 1745 Received by: (Signature)	Ф. 27.23 1800	<u>T1 </u>	<u>T3</u>
Relinquished by: (Signature)	Date 14-27-23 Time Received by: (Signature) Received by: (Signature)			
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	ge, A - Aqueous, O - Other	Container Type: g - glass, p - p	oly/plastic, ag - amber glass, v - VOA	· · · · · · · · · · · · · · · · · · ·
Note: Camples are discarded 30 days a	ofter results are reported unless other arrangements are made. Hazardous supplies received by the laboratory with this COC. The liability of the laboratory	amples will be returned to client o is limited to the amount paid for c	r disposed of at the client expense. The repo on the report.	ort for the analysis of the above



Project Information

Received by OCD: 8/10/2023 2:51:13 PM



Printed: 4/28/2023 2:54:20PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	Pima Environmental Services-Carlsbad	Date Received:	04/28/23	08:45	Work Order ID:	E304214
Phone: ((575) 631-6977	Date Logged In:	04/27/23	17:01	Logged In By:	Caitlin Christian
Email: to	tom@pimaoil.com	Due Date:	05/04/23	17:00 (4 day TAT)		
Chain of C	ustody (COC)					
1. Does the	sample ID match the COC?		Yes			
2. Does the	number of samples per sampling site location mate	h the COC	Yes			
3. Were sam	nples dropped off by client or carrier?		Yes	Carrier: C	Courier	
4. Was the C	COC complete, i.e., signatures, dates/times, request	ed analyses?	No	_		
Ŋ	samples received within holding time? Note: Analysis, such as pH which should be conducted in a i.e, 15 minute hold time, are not included in this disucssion	•	Yes		Commen	ts/Resolution
	rn Around Time (TAT)	1.		Ī		
	COC indicate standard TAT, or Expedited TAT?		Yes		Time sampled not prov	ided on the COC by
Sample Coo					client	
	mple cooler received?		Yes			
•	as cooler received in good condition?		Yes			
9. Was the s	sample(s) received intact, i.e., not broken?		Yes			
10. Were cu	astody/security seals present?		No			
11. If yes, w	vere custody/security seals intact?		NA			
N n	sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling sible ice, record the temperature. Actual sample t	received w/i 15	Yes C			
Sample Cor			_			
	neous VOC samples present?		No			
•	C samples collected in VOA Vials?		NA			
	ead space less than 6-8 mm (pea sized or less)?		NA			
	rip blank (TB) included for VOC analyses?		NA			
	n-VOC samples collected in the correct containers?		Yes			
	propriate volume/weight or number of sample containers?	ura gallagtad?	Yes			
	· ·	as conected?	168			
	eld sample labels filled out with the minimum infor	mation:	Yes			
	nple ID? re/Time Collected?		Yes	l		
	lectors name?		Yes			
Sample Pre	eservation		105			
	e COC or field labels indicate the samples were pre	served?	No			
22. Are sam	nple(s) correctly preserved?		NA			
	Iteration required and/or requested for dissolved me	etals?	No			
	Sample Matrix					
Multinhase	-	<u>-</u> ?	No			
Multiphase 26. Does the	e sample have more than one phase, i.e., multiphase		110			
26. Does the	e sample have more than one phase, i.e., multiphase loes the COC specify which phase(s) is to be analyze					
26. Does the 27. If yes, d	loes the COC specify which phase(s) is to be analyze		NA			
26. Does the 27. If yes, d	loes the COC specify which phase(s) is to be analyzet Laboratory	zed?	NA			
26. Does the 27. If yes, do Subcontract 28. Are same	loes the COC specify which phase(s) is to be analyzet Laboratory uples required to get sent to a subcontract laboratory	zed? 7?	NA No	Code and A. L.	. NA	
26. Does the 27. If yes, do Subcontract 28. Are same	loes the COC specify which phase(s) is to be analyzet Laboratory uples required to get sent to a subcontract laboratory ubcontract laboratory specified by the client and if	zed? 7?	NA	Subcontract Lab	: NA	



July 11, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/10/23 15:46.

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 KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/10/2023 Reported: 07/11/2023

Project Name: MCA 204
Project Number: 03D2057088

Project Location: MAVERICK 32.79857,-103.752337

Sampling Date: 07/10/2023

Sampling Type: Soil

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

Sample ID: FS 01 @ 4' (H233489-01)

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	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEX	<0.300	0.300	07/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 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	256	16.0	07/11/2023	ND	416	104	400	3.92	
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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	62.1	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	62.4	10.0	07/11/2023	ND					
Surrogate: 1-Chlorooctane	133 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	149	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/10/2023 Sampling Date: 07/10/2023

Reported: 07/11/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.79857,-103.752337

Sample ID: FS 02 @ 3' (H233489-02)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEX	<0.300	0.300	07/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/11/2023	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	61.4	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	94.3	10.0	07/11/2023	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Celey D. Keene



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/10/2023 Sampling Date: 07/10/2023

Reported: 07/11/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.79857,-103.752337

Sample ID: FS 03 @ 1.5' (H233489-03)

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	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	<0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEX	<0.300	0.300	07/10/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	14						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	07/11/2023	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	177	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	147	10.0	07/11/2023	ND					
Surrogate: 1-Chlorooctane	105	% 48.2-13	14						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	18						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/10/2023 Sampling Date: 07/10/2023

Reported: 07/11/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.79857,-103.752337

Sample ID: SW 01 @ 0-4' (H233489-04)

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	07/10/2023	ND	2.24	112	2.00	3.65	
Toluene*	<0.050	0.050	07/10/2023	ND	2.21	110	2.00	1.30	
Ethylbenzene*	< 0.050	0.050	07/10/2023	ND	2.11	105	2.00	3.43	
Total Xylenes*	<0.150	0.150	07/10/2023	ND	6.52	109	6.00	3.02	
Total BTEX	<0.300	0.300	07/10/2023	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	208	16.0	07/11/2023	ND	432	108	400	7.69	
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	07/11/2023	ND	175	87.5	200	0.0926	
DRO >C10-C28*	177	10.0	07/11/2023	ND	173	86.4	200	4.34	
EXT DRO >C28-C36	216	10.0	07/11/2023	ND					
Surrogate: 1-Chlorooctane	141 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	172 9	6 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.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg & Freene

101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(575) 393-2326 ompany Name: CASALLAN roject Manager: FOLK I PM ddress: 877 NAT PM ity: UNTSDOOD hone #: 417-168-758	FAX (575) 393-2476 LLC LLC WAS HUNGS State: NOM Zip: \$8720 S Fax #:	P.O. #: Company:	ANALYSIS	IS REQUEST
roject #: 0802051088 roject Name: MOA 204 roject Location: 32 19.65	Project Owner: Mowerick	City: State: Zip: Phone #: Fax #:		
Lab I.D. Sample I.D.	CONTROL OF THE CONTRO		BTEX TPH Onlorides	
2 PSU2 (2)	0.4	1345		
EASE NOTE: Liability and Damages. Cardinal's liability and payess. All claims including those for negligence and any videyses. All claims including those for negligence and any size of the cardinal be liable for incidental or distributions. The cardinal be liable for recl. and to the perform	EASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the alyeas. All claims including those for negligence and any other cause whatsoever shall be deemed whether based in writing and received by Cardinal within 30 days after completion of the applicable rice, in no event shall Cardinat be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its substituties.	cl or tort, shall be limited to the amount paid by the client for the clorest state of the completion of the directived by Cardinal within 30 days after completion of the first sues of true, or loss of profits incurred by client, its subsidiarin is based upon any of the abor, stated reasons or otherwise.	nnt for the north of the applicable besidiaries, .	
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Delivered By: (Circle One) ampler - UPS - Bus - Other:	Observed Temp. °C 3, 9 Cool Infact Corrected Temp. °C Ares Ares No No	ndition CHECKED BY: Turnar act (Initials) Thes Correct Correct	Turnaround Time: Standard Bact Rush Cool Thermometer ID #413. Wy Correction Factor 4.8°C Wy	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C
FORM-000 N 3.3 07/10/22	† Cardinal cannot accept verbal ch	anges. Please email changes to	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	



July 12, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/11/23 15:39.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023
Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 05 @ 3' (H233531-01)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	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	80.0	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 06 @ 3' (H233531-02)

RTFY 8021R

B1EX 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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057088

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 07 @ 3' (H233531-03)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	16.6	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 08 @ 3' (H233531-04)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	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	256	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	13.6	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 09 @ 3' (H233531-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/12/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	75.9	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	29.3	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	135	% 49.1-14	18						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 10 @ 3' (H233531-06)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129	% 49.1-14	18						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 11 @ 2' (H233531-07)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/12/2023	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	07/12/2023	ND	190	95.2	200	7.73	
DRO >C10-C28*	20.6	10.0	07/12/2023	ND	204	102	200	15.8	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	105 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057088

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 12 @ 2' (H233531-08)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	15.4	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	110 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	136	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 13 @ 2' (H233531-09)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 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	256	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	22.7	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	133	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057088

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 14 @ 2' (H233531-10)

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	07/12/2023	ND	1.86	93.0	2.00	1.06	
Toluene*	<0.050	0.050	07/12/2023	ND	1.84	91.9	2.00	0.771	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	1.83	91.5	2.00	0.496	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	5.61	93.5	6.00	0.395	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	86.4	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	25.6	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 9	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 03D2057088

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 15 @ 2' (H233531-11)

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	07/12/2023	ND	2.10	105	2.00	11.8	
Toluene*	<0.050	0.050	07/12/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.01	100	2.00	13.1	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.21	104	6.00	12.3	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	112 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 02 @ 0-3' (H233531-12)

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	07/12/2023	ND	2.10	105	2.00	11.8	
Toluene*	<0.050	0.050	07/12/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.01	100	2.00	13.1	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.21	104	6.00	12.3	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	140	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 03 @ 0-3' (H233531-13)

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	07/12/2023	ND	2.10	105	2.00	11.8	
Toluene*	<0.050	0.050	07/12/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.01	100	2.00	13.1	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.21	104	6.00	12.3	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 04 @ 0-3' (H233531-14)

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	07/12/2023	ND	2.10	105	2.00	11.8	
Toluene*	<0.050	0.050	07/12/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.01	100	2.00	13.1	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.21	104	6.00	12.3	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	48.0	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/11/2023 Sampling Date: 07/11/2023

Reported: 07/12/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 05 @ 0-3' (H233531-15)

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	07/12/2023	ND	2.10	105	2.00	11.8	
Toluene*	<0.050	0.050	07/12/2023	ND	2.09	104	2.00	12.1	
Ethylbenzene*	<0.050	0.050	07/12/2023	ND	2.01	100	2.00	13.1	
Total Xylenes*	<0.150	0.150	07/12/2023	ND	6.21	104	6.00	12.3	
Total BTEX	<0.300	0.300	07/12/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/12/2023	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	07/12/2023	ND	200	100	200	7.77	
DRO >C10-C28*	<10.0	10.0	07/12/2023	ND	200	100	200	7.51	
EXT DRO >C28-C36	<10.0	10.0	07/12/2023	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	138 9	% 49.1-14	8						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



† Cardinal c	Sampler - UPS - Bus - Other: Corrected Temp. °C	Delivered By: (Circle One) Observed Temp. °C	Time:	Relinquished By: Date:	Relimquished By:	ng out of or rela	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an analyses. All claims including those for negligence and any other cause whatsoever shall be	2	9 TSB 62	8 FSR 82	7	200 Solution 100 S		4 FOR OR	1000 CONT	ただろん	H233531	Lab I.D. Sample I.D.		FOR LAB USE ONLY	Sampler Name: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Project Location; (2), 748457 - 103.	Project Name: MOA JUU	Project #: BN 051 056 Project Owner:	Phone #: 811-188-2803 Fax #:	City: 100/5000 State 100	Address: 311 Not Part 50Hww	Project Manager:	Company Name: CMSSIMM LLC	(575) 393-2326 FAX (575) 393-2476
Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	C Pres Pres Correction Factor 4.660 Nc No No Corrected Temp. °C	Sample Condition CHECKED BY: Turnaround Time: Standard Bacteria (only) S		Received By: Received By: REMARKS: REMARKS:	Received By: All Results are emailed. Please provide Email.	of whether such claim is based upon any of the above stated reasy, or ctherwise.	PLEASE NOTE: Liability and Darnages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the annount paid by the client for the province of the public	AT A JASTAN	1440	1435	1430	1475	1420		717	1 2 X X X Y 7 11172 L	# CON	BASE: COOL ER:	RS TER	MATRIX PRESERV. SAMPLING	Fax#:	(\$337) Phone #:	State: Zip:	er: (Yourself city:	Address:	Zip: STOOL Attn:	Company: D	P.O. #:	BILL TO ANALYSIS REQUEST	476

Page 18 of 19

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Observed Temp. °C ← Sample Condition Sampler - UPS - Bus - Other: Corrected Temp. °C A Sample Condition Cool Intact Corrected Temp. °C No □ No □ No	Time: 39 Received Time: 39 Received	ses. All claims including those for negligence and any other cause whatsover shall be deemed waived unle se. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, b tes or successors arising out of or related to the performance of services hereunder by Cardinal, regardless.	PLEASE NOTE: Liability and Damanes. Cardinal's liability and clients overhuin comodules and clients.	C-Om mac	15 Sword 20-31	13 SWS 20-3	1 1000 2 0 1 X	# CON	Lab I.D. B OR (C)OM ITAINERS INDWATER EWATER GE	FOR LAB USE ONLY MATRIX	: Juliana Calconata	Project Location: (62. 708057 - 108 52331)	Project Name: MCA 204	Project #: 05020571086 Project Owner: MONNING K	Phone #: 517-1013- 7508 Fax #:	City: (100/15/200) State: (VM) Zip: SSM	Address: 5127 Not 17 DW NO HUY	Project Manager: MONEY POMINIONS	Company Name:	101 01 020 121 01 01 01 01 01 01 01 01 01 01 01 01 01
On CHECKED BY: (Initials)	Millabou	urer uses in contract or fort, strail be immited to the amount paid by the client for the ss made in writing and received by Cardinal within 30 days after completion of the useness interruptions, loss of use, or loss of profits incurred by client, its subsidiaries syhether such claim is based upon apy of the above stated reasons or otherwise.			<		× 7/11/23	ACID/E ICE / C OTHER	BASE:	PRESERV. SAM	Fax #:	Phone #:	State: Zip:	City:	Address:	Attn:	Company: AA	P.O. #:	BILL TO	
Turnaround Time: Standard Bacteria (only) Sample Condition Hyper Rush Cool Intact Observed Temp. °C Thermometer ID 449 Correction Factor 9-9-9-24 No. Corrected Temp. °C	All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email address: All Results are emailed. Please provide Email addr	ailed by the client for the filter completion of the applicable y client, its subsidiaries, reasons or otherwise.			1505 4 2 4	500	8 150 × × X	TIME	BTE	SAMPLING	Leste	5							ANALYSIS REQUEST	

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July 13, 2023

KALEI JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/12/23 15:45.

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, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023
Reported: 07/13/2023

Project Name: MCA 204
Project Number: NONE GIVEN
Project Location: 32.8001,-103.7521

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 04 1.5' (H233573-01)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	92.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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07/12/2023

Soil

Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date:
Reported: 07/13/2023 Sampling Type:

Project Name: MCA 204 Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Analyzed By: MC

Project Location: 32.8001,-103.7521

Sample ID: FS 09 3.25' (H233573-02)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	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	16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

Project Name: MCA 204
Project Number: NONE GIVEN
Project Location: 32.8001,-103.7521

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: *** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 14 3.25' (H233573-03)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Reported: 07/13/2023

Project Name: MCA 204
Project Number: NONE GIVEN
Project Location: 32.8001,-103.7521

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 16 2.5' (H233573-04)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	101	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date: 07/12/2023
Reported: 07/13/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: ** (See Notes)

Project Number: NONE GIVEN Sample Received By: Shalyn Rodriguez

Project Location: 32.8001,-103.7521

Sample ID: FS 17 2.5' (H233573-05)

overy True Value QC RPD Qualifier
2 2.00 1.94
1 2.00 1.22
0 2.00 0.806
1 6.00 0.114
overy True Value QC RPD Qualifier
2 400 7.41
overy True Value QC RPD Qualifier
1 200 9.76
7 200 9.63
1:

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Celey D. Keine



Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023

Reported: 07/13/2023
Project Name: MCA 204
Project Number: NONE GIVEN

Project Location: 32.8001,-103.7521

Sampling Date: 07/12/2023

Sampling Type: Soil

Sampling Condition: ** (See Notes)
Sample Received By: Shalyn Rodriguez

Sample ID: FS 18 2.5' (H233573-06)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	89.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keine



07/12/2023

Soil

Analytical Results For:

ENSOLUM, LLC KALEI JENNINGS 705 W WADLEY AVE. MIDLAND TX, 79705 Fax To:

Received: 07/12/2023 Sampling Date: Reported: 07/13/2023

Sampling Type: Project Name: MCA 204 Sampling Condition: ** (See Notes) Sample Received By: Project Number: NONE GIVEN Shalyn Rodriguez

Analyzed By: MC

Project Location: 32.8001,-103.7521

Sample ID: SW 06 0-2.5' (H233573-07)

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	07/13/2023	ND	2.04	102	2.00	1.94	
Toluene*	<0.050	0.050	07/13/2023	ND	2.01	101	2.00	1.22	
Ethylbenzene*	<0.050	0.050	07/13/2023	ND	2.00	100	2.00	0.806	
Total Xylenes*	<0.150	0.150	07/13/2023	ND	6.07	101	6.00	0.114	
Total BTEX	<0.300	0.300	07/13/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/13/2023	ND	448	112	400	7.41	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2023	ND	201	101	200	9.76	
DRO >C10-C28*	<10.0	10.0	07/13/2023	ND	214	107	200	9.63	
EXT DRO >C28-C36	<10.0	10.0	07/13/2023	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.9	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

	(5/5) 393-2326 FAX (5/5) 393-24/6	X (5/5) 333-	24/0														J
Company Name: Fushum,	Ensour, LLC					BILL	LL 70				AN	ANALYSIS		REQUEST			
Project Manager	Kalei Jewing	2				P.O. #:											
Address: 600	Address: 601 N. Maricyfeld St.	SV. #400	0		0	Company: Explusy, LLC	molam, L	71		5							
city: Midlaw	a	State: TY		7	Zip: 79701	Attn: Kalei Tenarys	Jenning	5									
Phone #: 8(7-	Phone #: 817-683-2503	Fax #:				Address: 601 N. Narion Fild #100	N. Marion Fel	d #10									
Project #:		Project Owner:	er:		0	city: Midland	and										
Project Name: N	Project Name: MCA 204				10	State: TX Zip: 7970	Zip:797(9									
Project Location: 32, 800		-103, 7521	_		7	Phone #: 817-687-2503	7-683-2	203									
Sampler Name:	Peter Van F	atten			77	Fax #:									101		
		_	\exists		MATRIX	PRESERV.	SAMPLING	NG		25							
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	DATE	TME	TPH	BTEX							
-	TS 27	1.5	0				7-12-23 1400	00	<	<							
	4508	3.25	0	-	<	<	ıı	1405	7	:<							
w	4514	3.25	0	-	ς	<	_	01410	7	<							
	1916	2.5	0	_	<	5	~	0241	(5							
ഗ	FS17	2.5	0	-	<	<	-	125	<	<							
6	FS18	2.5	0		<	(_	1430	2	<							
7	5006	0-2,5	6		<		4	140	((
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Relinquished By:		Date: 7-(2-2 7-(2-2 1,545			Peceived By:	ne de	<u> </u>	Verbal Result: □ Yes יש No Add'l Phone #: All Results are emailed. Please אווייסיולפ Email address: אין צייטילים בייסיולפ Email address:	are emaile	es is d. Pleas	Yes Y No Add'l Phone #: lied. Please provide Email address PCh SOMM. Com,	Id'I Phone Email ad	e#: dress: , by	een @	eksol	<u>יא אס</u> Add'l Phone #: iled. Please יייי vide Email address: בא אייי vide Email address:	ſ
Relinquished By:		Date: Time:	Z)	eceiv	Received By:		R	REMARKS:	TEMP &	DAM	SIAMK 0.42	4	8	MADO	Shodaguer	4	
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Observed Temp. °C	نحن	()	Sample Condition Cool Intact Yes Yes	CHECKED BY:		Turnaround Time: Thermometer ID #113	Time:	Stand	Standard Rush	Cool Bact	eria (onl Intact	y) Sample Obse	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes	p. °C	
							2	Trootion En	0000		IN])		3	



July 18, 2023

KALEI JENNINGS
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/14/23 13:15.

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 KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shari Cisneros

A ... - I. ... - - I D. ... 311 /

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 19 @ 3' (H233657-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	07/15/2023	ND	2.05	103	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.13	107	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.44	107	6.00	0.626	
Total BTEX	<0.300	0.300	07/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2023	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	07/16/2023	ND	207	103	200	2.63	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					
Surrogate: 1-Chlorooctane	118 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	132	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shari Cisneros

Applyzod By: 1H /

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 20 @ 3' (H233657-02)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	07/15/2023	ND	2.05	103	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.13	107	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.44	107	6.00	0.626	
Total BTEX	<0.300	0.300	07/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/17/2023	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	07/16/2023	ND	207	103	200	2.63	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					
Surrogate: 1-Chlorooctane	117	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	130	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shari Cisneros

Analyzed By: 1H /

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 21 @ 3' (H233657-03)

RTFY 8021R

oso 07/15/2023 050 07/15/2023 050 07/15/2023 050 07/15/2023 150 07/15/2023 300 07/15/2023	Method Blank ND ND ND ND ND	2.08 2.05 2.13	% Recovery 104 103 107	True Value QC 2.00 2.00 2.00	2.83 0.837	Qualifier
050 07/15/2023 050 07/15/2023 150 07/15/2023	ND ND	2.05 2.13	103	2.00	0.837	
050 07/15/2023 150 07/15/2023	ND	2.13				
150 07/15/2023			107	2.00	1 12	
	ND				1.12	
300 07/15/2023		6.44	107	6.00	0.626	
,,2020	ND					
71.5-134						
Analy	zed By: AC					
ing Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
6.0 07/17/2023	ND	416	104	400	3.77	
Analy	zed By: MS					
ing Limit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.0 07/16/2023	ND	207	103	200	2.63	
0.0 07/16/2023	ND	199	99.4	200	4.11	
0.0 07/16/2023	ND					
48.2-134						
49.1-148						
	0.0 07/16/2023 0.0 07/16/2023 0.0 07/16/2023 0.0 07/16/2023	0.0 07/16/2023 ND 0.0 07/16/2023 ND 0.0 07/16/2023 ND 48.2-134	1. Analyzed Method Blank BS 0.0 07/16/2023 ND 207 0.0 07/16/2023 ND 199 0.0 07/16/2023 ND 48.2-134	101 Limit Analyzed Method Blank BS % Recovery 0.0 07/16/2023 ND 207 103 0.0 07/16/2023 ND 199 99.4 0.0 07/16/2023 ND 48.2-134	ting Limit Analyzed Method Blank BS % Recovery True Value QC 0.0 07/16/2023 ND 207 103 200 0.0 07/16/2023 ND 199 99.4 200 0.0 07/16/2023 ND 48.2-134	ting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 0.0 07/16/2023 ND 207 103 200 2.63 0.0 07/16/2023 ND 199 99.4 200 4.11 0.0 07/16/2023 ND 48.2-134

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Celey D. Keene



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Shari Cisneros

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 22 @ 3' (H233657-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	07/15/2023	ND	2.05	103	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.13	107	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.44	107	6.00	0.626	
Total BTEX	<0.300	0.300	07/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/17/2023	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	07/16/2023	ND	207	103	200	2.63	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Shari Cisneros

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 07 @ 0-3' (H233657-05)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	07/15/2023	ND	2.05	103	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.13	107	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.44	107	6.00	0.626	
Total BTEX	<0.300	0.300	07/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	<16.0	16.0	07/17/2023	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	07/16/2023	ND	207	103	200	2.63	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					
Surrogate: 1-Chlorooctane	115 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

ENSOLUM KALEI JENNINGS 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/14/2023 Sampling Date: 07/14/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Shari Cisneros

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 08 @ 0-3' (H233657-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/15/2023	ND	2.08	104	2.00	2.83	
Toluene*	<0.050	0.050	07/15/2023	ND	2.05	103	2.00	0.837	
Ethylbenzene*	<0.050	0.050	07/15/2023	ND	2.13	107	2.00	1.12	
Total Xylenes*	<0.150	0.150	07/15/2023	ND	6.44	107	6.00	0.626	
Total BTEX	<0.300	0.300	07/15/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 %	% 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	64.0	16.0	07/17/2023	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	07/16/2023	ND	207	103	200	2.63	
DRO >C10-C28*	<10.0	10.0	07/16/2023	ND	199	99.4	200	4.11	
EXT DRO >C28-C36	<10.0	10.0	07/16/2023	ND					
Surrogate: 1-Chlorooctane	114 %	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	129 9	% 49.1-14	8						

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Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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CHAIN-OF-CUSTODY AND ANALYS'S REQUEST



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Nc No Corrected Temp. °C	□ No	MARY	Correction Factor -0.8°C	-		emp. °C #140	Corrected Temp. °C	- Bus - Other:	Sampler - UPS -
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July 18, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/17/23 14:52.

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: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 23 @ 3' (H233685-01)

BTEX 8021B	mg,	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 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	176	16.0	07/18/2023	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	80.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.9	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 24 @ 3' (H233685-02)

BTEX 8021B	mg	/kg	Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114	% 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	160	16.0	07/18/2023	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	79.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 25 @ 4' (H233685-03)

RTFY 8021R

B1EX 8021B	тд/кд		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/18/2023	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	74.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.1	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 09 @ 0-3' (H233685-04)

RTFY 8021R

ry True Value QC RPD Qualifier
2.00 0.540
2.00 0.0760
2.00 0.265
6.00 0.346
ry True Value QC RPD Qualifier
400 3.64
ry True Value QC RPD Qualifier
200 0.445
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Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 10 @ 0-3' (H233685-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	07/18/2023	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	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	81.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.5	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/17/2023 Sampling Date: 07/17/2023

Reported: 07/18/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Tamara Oldaker

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 11 @ 0-3' (H233685-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/17/2023	ND	2.10	105	2.00	0.540	
Toluene*	<0.050	0.050	07/17/2023	ND	2.07	103	2.00	0.0760	
Ethylbenzene*	<0.050	0.050	07/17/2023	ND	2.17	108	2.00	0.265	
Total Xylenes*	<0.150	0.150	07/17/2023	ND	6.50	108	6.00	0.346	
Total BTEX	<0.300	0.300	07/17/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 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	80.0	16.0	07/18/2023	ND	352	88.0	400	16.7	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/18/2023	ND	170	85.1	200	0.445	
DRO >C10-C28*	<10.0	10.0	07/18/2023	ND	167	83.6	200	3.05	
EXT DRO >C28-C36	<10.0	10.0	07/18/2023	ND					
Surrogate: 1-Chlorooctane	73.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.0	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



Cardinal cannot accept verbal changes. Please email changes to celey keeine@cardinaliassimmoon.	nges to celey.keene	s. Please email cha	accept verbal change	† Cardinal cannot	FORM-000 K 3.3 07/10/22
Cool Intact Observed Temp. °C Rush Cool Intact Observed Temp. °C No No Corrected Temp. °C Coordinallaheam Com	Thermometer ID #113 Correction Factor -0.6°C	CHECKED BY:	Sample Condition Cool Intact Pres Tres No No	Observed Temp. °C 4,8e	Delivered By: (Circle One) Sampler - UPS - Bus - Other:
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		ed by Calculat Wall (1997) Ise, or loss of profits incurred by cl d upon any of the above stated rea	r shall be deemed waived unless made in writing and received by carrians made, in writing and received by carrians made, including without limitation, business interruptions, loss of use, or loss of profit, including without immitation, business interruptions, loss of use, or loss of profit in the carrians of whether such dailin is based upon any of the	any other cause whatsoever shall be deemed wait or consequental damages, including without limit	ALEASE MVIE. Leaving and veningers of medigence and any other cause whatsoever shall be deemed waived unless made in writing and received by clause in the profit of the p
	by the client for the completion of the applicable	shall be limited to the amount paid	ng whether based in contract or tort,	wand client's exclusive remedy for any claim arisi	The second of th
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ANALYSIS REGUES		BILL TO		(8/5) 393-2326 FAX (3/3) 300 =	-
TSECOND DECLINATION				101 East Marland, Hobbs, NM 88240	101 East Marland



July 19, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/18/23 14:02.

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: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

A ... - L ... - - - I D. .. MC

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 26 @ 3' (H233723-01)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/19/2023	ND	432	108	400	0.00	
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	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	102	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	49.3	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	48.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	58.8	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Shalyn Rodriguez

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 27 @ 3' (H233723-02)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 5	71.5-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	89.7	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	65.7	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	51.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	65.3	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Shalyn Rodriguez

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 28 @ 3' (H233723-03)

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	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	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	<16.0	16.0	07/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	51.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.4	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

Applyzod By: MC

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: FS 29 @ 3' (H233723-04)

RTFY 8021R

B1EX 8021B	mg,	кg	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/19/2023	ND	2.02	101	2.00	1.43	
Toluene*	<0.050	0.050	07/19/2023	ND	1.95	97.7	2.00	2.24	
Ethylbenzene*	<0.050	0.050	07/19/2023	ND	1.94	97.0	2.00	1.49	
Total Xylenes*	<0.150	0.150	07/19/2023	ND	6.31	105	6.00	1.95	
Total BTEX	<0.300	0.300	07/19/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 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	16.0	16.0	07/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	173	86.6	200	2.72	
DRO >C10-C28*	136	10.0	07/19/2023	ND	168	83.9	200	0.669	
EXT DRO >C28-C36	77.1	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	53.5	% 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	65.7	% 49.1-14	8						

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Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 12 @ 0-3' (H233723-05)

BTEX 8021B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	78.6	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	67.7	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	78.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.2	% 49.1-14	18						

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Celey D. Keene



Analytical Results For:

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

Received: 07/18/2023 Sampling Date: 07/18/2023

Reported: 07/19/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Shalyn Rodriguez

Analyzed By: MS

Project Location: MAVERICK 32.798457,-103.752337

Sample ID: SW 13 @ 0-3' (H233723-06)

BTEX 8021B

DIEX GOZID	ıııg,	K9	Alldiyzo	a by. 1-15					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2023	ND	2.01	101	2.00	2.04	
Toluene*	<0.050	0.050	07/18/2023	ND	1.99	99.6	2.00	1.65	
Ethylbenzene*	<0.050	0.050	07/18/2023	ND	1.96	98.2	2.00	2.22	
Total Xylenes*	<0.150	0.150	07/18/2023	ND	5.84	97.3	6.00	2.61	
Total BTEX	<0.300	0.300	07/18/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 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	07/19/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/19/2023	ND	206	103	200	7.39	
DRO >C10-C28*	<10.0	10.0	07/19/2023	ND	205	103	200	7.17	
EXT DRO >C28-C36	<10.0	10.0	07/19/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

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Celey D. Keene



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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Company Name: CASOMI	0770	BILL TO	ANAL YEIG
Project Manager:	loca :		
Address: SID Nat	Parts Hwy	Company: A.M	
dame	State: N/M zip! \$8770	Attn:	
Phone #: 120-584	5(05 Fax #:	Address:	
Project #: (151)/0570%	Project Owner: Wassenok	City:	
Project Name:		State: Zip:	
Project Location:	157, -105, 62337	Phone #:	
Sampler Name: WWW	a Falcomoda	Fax #:	5
FOR LAB USE ONLY	MATRIX	SERV.	SAMPLING
Lab I.D. Samp	G)RAB OR (C)OMP CONTAINERS ROUNDWATER VASTEWATER OIL LUDGE	THER: CID/BASE: E/COOL THER:	BTEX TPH QNIDA
1277 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2	X	
2 SW12 6	800	4	1250
EASE NOTE: Lishlik and Dumanoo Court, or the			
alyses. All claims including those for negligence and an wide. In no event shall cardinal be liable for incidental o liliates or successors arising out of or related to the base.	be de ling w	tort, shall be limited to the amount pa sceived by Cardinal within 30 days aftens s of use, or loss of profits incurred by observed the stated re-	d by the client for the roombelon of the applicable for completion of the applicable filent, its subsidiaries,
elmquished By:	Time: 400 Received By: Pate: Received By:	mers)	Victorial Result: Yes No Add'I Phone #: All Results are emailed. Please provide Email address: Q PO 10 0 1 150 UM 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
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ampler - IIPS - Rus Other	Observed Temp. °C Sample Condition Cool Intact	CHECKED BY:	ly) S
FORIVI-000 K 3.3 07/10/22	Yes Yes	X	= \



July 21, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/19/23 15:16.

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: 07/19/2023 Sampling Date: 07/19/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact
Project Number: 03D2057088 Sample Received By: Jodi Henson

Analyzed By: MS

Project Location: MAVERICK (32.798457,-103.752337)

mg/kg

Sample ID: FS 26A @ 4' (H233759-01)

BTEX 8021B

DILX 0021D	ilig	r kg	Allalyze	u by. M3					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	2.09	104	2.00	2.61	
Toluene*	<0.050	0.050	07/20/2023	ND	2.05	102	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	98.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.92	98.7	6.00	3.15	
Total BTEX	<0.300	0.300	07/20/2023	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	16.0	16.0	07/20/2023	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	07/20/2023	ND	162	80.8	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	173	86.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

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

Received: 07/19/2023 Sampling Date: 07/19/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name:MCA 204Sampling Condition:Cool & IntactProject Number:03D2057088Sample Received By:Jodi HensonProject Location:MAVERICK (32.798457,-103.752337)

Sample ID: FS 27A @ 4' (H233759-02)

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	07/20/2023	ND	2.09	104	2.00	2.61	
Toluene*	<0.050	0.050	07/20/2023	ND	2.05	102	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	98.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.92	98.7	6.00	3.15	
Total BTEX	<0.300	0.300	07/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	64.0	16.0	07/20/2023	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	07/20/2023	ND	162	80.8	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	173	86.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Kreene



Analytical Results For:

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

Received: 07/19/2023 Sampling Date: 07/19/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03D2057088 Jodi Henson

Project Location: MAVERICK (32.798457,-103.752337)

Sample ID: FS 29A @ 4' (H233759-03)

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	07/20/2023	ND	2.09	104	2.00	2.61	
Toluene*	<0.050	0.050	07/20/2023	ND	2.05	102	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	98.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.92	98.7	6.00	3.15	
Total BTEX	<0.300	0.300	07/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 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	16.0	16.0	07/20/2023	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	07/20/2023	ND	162	80.8	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	173	86.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

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

Received: 07/19/2023 Sampling Date: 07/19/2023

Reported: 07/21/2023 Sampling Type: Soil

Project Name:MCA 204Sampling Condition:Cool & IntactProject Number:03D2057088Sample Received By:Jodi HensonProject Location:MAVERICK (32.798457,-103.752337)

Analyzed By: MS

mg/kg

Sample ID: SW 12A @ 0-4' (H233759-04)

BTEX 8021B

	9,	9	7	7: : : :					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/20/2023	ND	2.09	104	2.00	2.61	
Toluene*	<0.050	0.050	07/20/2023	ND	2.05	102	2.00	2.17	
Ethylbenzene*	<0.050	0.050	07/20/2023	ND	1.98	98.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	07/20/2023	ND	5.92	98.7	6.00	3.15	
Total BTEX	<0.300	0.300	07/20/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	07/20/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/20/2023	ND	162	80.8	200	2.89	
DRO >C10-C28*	<10.0	10.0	07/20/2023	ND	173	86.7	200	3.84	
EXT DRO >C28-C36	<10.0	10.0	07/20/2023	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

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

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST



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Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	Turnaround Time: Standard Thermometer ID #113 Correction Factor -0.6°C	re emailed.		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TIME X	PH	X H ONO	lo)				-
absnm.com	Bacteria (only) S Cool Intact System Yes No No No	V	Add'i Phone #:										ANALYSIS REQUEST
	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Yes Yes No Corrected Temp. °C	umpstha Coroll											ST



July 24, 2023

AIMEE COLE

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: MCA 204

Enclosed are the results of analyses for samples received by the laboratory on 07/21/23 10:10.

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: 07/21/2023 Sampling Date: 07/21/2023

Reported: 07/24/2023 Sampling Type: Soil

Project Name: MCA 204 Sampling Condition: Cool & Intact Project Number: 03D2057088 Sample Received By: Tamara Oldaker

Project Location: MAVERICK (32.798457,-103.752337)

Sample ID: SW 01 A @ 0-4' (H233810-01)

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	07/21/2023	ND	2.13	106	2.00	1.75	
Toluene*	<0.050	0.050	07/21/2023	ND	2.09	104	2.00	0.752	
Ethylbenzene*	<0.050	0.050	07/21/2023	ND	2.04	102	2.00	1.22	
Total Xylenes*	<0.150	0.150	07/21/2023	ND	6.14	102	6.00	1.08	
Total BTEX	<0.300	0.300	07/21/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/21/2023	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/21/2023	ND	199	99.3	200	18.6	
DRO >C10-C28*	<10.0	10.0	07/21/2023	ND	225	113	200	5.66	
EXT DRO >C28-C36	<10.0	10.0	07/21/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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			-		# BILL TO	0		1,1	MMICENTA	Company Name:
REQUEST	ANALYSIS RE	A					76	FAX (575) 393-2476	(575) 393-2326	
							i	, 110000, 1111		

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Aimee Cole Ensolum 601 N. Marienfeld St. Suite 400 Midland, Texas 79701

Generated 7/20/2023 12:59:31 PM

JOB DESCRIPTION

MCA 204 SDG NUMBER 03D2057088

JOB NUMBER

880-30744-1

Eurofins Midland 1211 W. Florida Ave Midland TX 79701

Eurofins Midland

Job Notes

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

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

Authorization

Generated 7/20/2023 12:59:31 PM

Authorized for release by Jessica Kramer, Project Manager <u>Jessica.Kramer@et.eurofinsus.com</u> (432)704-5440 3

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<u>و</u>

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Client: Ensolum Project/Site: MCA 204 Laboratory Job ID: 880-30744-1

SDG: 03D2057088

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Definitions/Glossary

Client: Ensolum Job ID: 880-30744-1 Project/Site: MCA 204 SDG: 03D2057088

Qualifiers

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Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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.

RER

RL RPD

TEF

TEQ

TNTC

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

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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

Case Narrative

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

Job ID: 880-30744-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-30744-1

Receipt

The samples were received on 7/14/2023 10:54 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.8° C

Receipt Exceptions

The following samples were received and analyzed from an unpreserved bulk soil jar: FS01A (880-30744-1), FS02A (880-30744-2) and FS03A (880-30744-3).

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-57697 and analytical batch 880-57653 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.

Method 8021B: Surrogate recovery for the following sample was outside control limits: FS02A (880-30744-2). 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: (LCS 880-57697/1-A). Evidence of matrix interferences is not obvious.

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: The surrogate recovery for the blank associated with preparation batch 880-57730 and analytical batch 880-57996 was outside the upper control limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (890-4939-A-1-F). 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.

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Matrix: Solid

Lab Sample ID: 880-30744-1

Client: Ensolum Job ID: 880-30744-1 Project/Site: MCA 204 SDG: 03D2057088

Client Sample ID: FS01A

Date Collected: 07/14/23 09:15 Date Received: 07/14/23 10:54

Sample Depth: 4.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198	mg/Kg		07/14/23 13:11	07/15/23 09:52	
Toluene	<0.00198	U	0.00198	mg/Kg		07/14/23 13:11	07/15/23 09:52	
Ethylbenzene	<0.00198	U *+	0.00198	mg/Kg		07/14/23 13:11	07/15/23 09:52	
m-Xylene & p-Xylene	<0.00396	U *+	0.00396	mg/Kg		07/14/23 13:11	07/15/23 09:52	
o-Xylene	<0.00198	U *+	0.00198	mg/Kg		07/14/23 13:11	07/15/23 09:52	
Xylenes, Total	<0.00396	U *+	0.00396	mg/Kg		07/14/23 13:11	07/15/23 09:52	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	84		70 - 130			07/14/23 13:11	07/15/23 09:52	
1,4-Difluorobenzene (Surr)	74		70 - 130			07/14/23 13:11	07/15/23 09:52	
Method: TAL SOP Total BTEX - T	otal BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396	mg/Kg			07/17/23 14:24	-
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	Mg/Kg	<u>D</u>	Prepared	Analyzed 07/20/23 13:08	Dil Fa
- - 		(DDO)	(00)					
Method: SW846 8015B NM - Dies Analyte	•	Qualifier	(GC)	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	- Kesuit <49.9		49.9	 		07/14/23 17:17	07/19/23 15:13	Dil Fat
(GRO)-C6-C10	\49.9	U	45.5	mg/Ng		07/14/23 17.17	07/19/23 13.13	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		07/14/23 17:17	07/19/23 15:13	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		07/14/23 17:17	07/19/23 15:13	
			49.9	mg/Kg		07/14/23 17:17	07/19/23 15:13	
Total TPH	<49.9	U	43.3	99				
	<49.9 %Recovery		Limits			Prepared	Analyzed	Dil Fa
Surrogate						Prepared 07/14/23 17:17	Analyzed 07/19/23 15:13	Dil Fa
Surrogate 1-Chlorooctane	%Recovery		Limits	g.rg				
Surrogate 1-Chlorooctane o-Terphenyl		Qualifier	Limits 70 - 130 70 - 130			07/14/23 17:17	07/19/23 15:13	
Total TPH Surrogate 1-Chlorooctane o-Terphenyl Method: EPA 300.0 - Anions, Ion Analyte	%Recovery 125 129 Chromatograp	Qualifier	Limits 70 - 130 70 - 130	Unit	D	07/14/23 17:17	07/19/23 15:13	

Client Sample ID: FS02A

Date Collected: 07/14/23 09:17 Date Received: 07/14/23 10:54

Released to Imaging: 11/15/2023 9:30:25 AM

Sample Depth: 3.5'

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		07/14/23 13:11	07/15/23 10:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		07/14/23 13:11	07/15/23 10:13	1
Ethylbenzene	<0.00201	U *+	0.00201	mg/Kg		07/14/23 13:11	07/15/23 10:13	1
m-Xylene & p-Xylene	<0.00402	U *+	0.00402	mg/Kg		07/14/23 13:11	07/15/23 10:13	1
o-Xylene	<0.00201	U *+	0.00201	mg/Kg		07/14/23 13:11	07/15/23 10:13	1
Xylenes, Total	< 0.00402	U *+	0.00402	mg/Kg		07/14/23 13:11	07/15/23 10:13	1

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Lab Sample ID: 880-30744-2

Matrix: Solid

Matrix: Solid

Job ID: 880-30744-1

07/14/23 17:17

07/19/23 15:35

Lab Sample ID: 880-30744-2

Client: Ensolum Project/Site: MCA 204 SDG: 03D2057088

Client Sample ID: FS02A

Date Collected: 07/14/23 09:17 Date Received: 07/14/23 10:54

Sample Depth: 3.5'

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80	70 - 130	07/14/23 13:11	07/15/23 10:13	1
1,4-Difluorobenzene (Surr)	69 S1-	70 - 130	07/14/23 13:11	07/15/23 10:13	1

Method: TAL SOP Total BTEX - To	otal BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			07/17/23 14:24	1

Method: SW846 8015 NM - Diesel	Range Organics (DRO) (G	SC)					
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			07/20/23 13:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 15:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 15:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 15:35	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 15:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			07/14/23 17:17	07/19/23 15:35	1

Method: EPA 300.0 - Anions, Ion Ch	•						
Analyte	Result Qua	alifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.1	4.96	mg/Kg			07/15/23 01:22	1

70 - 130

121

Lab Sample ID: 880-30744-3 Client Sample ID: FS03A Date Collected: 07/14/23 09:20 Matrix: Solid

Date Received: 07/14/23 10:54

Sample Depth: 2'

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
Ethylbenzene	<0.00200	U *+	0.00200	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
m-Xylene & p-Xylene	<0.00401	U *+	0.00401	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
o-Xylene	<0.00200	U *+	0.00200	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
Xylenes, Total	<0.00401	U *+	0.00401	mg/Kg		07/14/23 13:11	07/15/23 10:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		70 - 130			07/14/23 13:11	07/15/23 10:33	1
1,4-Difluorobenzene (Surr)	73		70 - 130			07/14/23 13:11	07/15/23 10:33	1
Method: TAL SOP Total BTEX	- Total BTEX Cald	culation						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	II	0.00401	mg/Kg			07/17/23 14:24	

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Matrix: Solid

Lab Sample ID: 880-30744-3

Client Sample Results

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

Client Sample ID: FS03A

Date Collected: 07/14/23 09:20 Date Received: 07/14/23 10:54

Sample Depth: 2'

Method: SW846 8015 NM - Diesel F	Range Organ	ics (DRO) (G	C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.2	U	50.2	mg/Kg			07/20/23 13:08	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.2	U	50.2	mg/Kg		07/14/23 17:17	07/19/23 15:58	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.2	U	50.2	mg/Kg		07/14/23 17:17	07/19/23 15:58	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.2	U	50.2	mg/Kg		07/14/23 17:17	07/19/23 15:58	1
Total TPH	<50.2	U	50.2	mg/Kg		07/14/23 17:17	07/19/23 15:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			07/14/23 17:17	07/19/23 15:58	1
o-Terphenyl	122		70 - 130			07/14/23 17:17	07/19/23 15:58	1

Method: EPA 300.0 - Anions, I	on Chromatography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.6	5.02	mg/Kg			07/15/23 01:27	1

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Surrogate Summary

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	Ū
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-30744-1	FS01A	84	74	
880-30744-1 MS	FS01A	120	83	
880-30744-1 MSD	FS01A	121	96	
880-30744-2	FS02A	80	69 S1-	
880-30744-3	FS03A	92	73	
LCS 880-57697/1-A	Lab Control Sample	132 S1+	92	
LCSD 880-57697/2-A	Lab Control Sample Dup	126	98	
MB 880-57697/5-A	Method Blank	75	83	
MB 880-57700/5-A	Method Blank	77	87	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

1001	
1001	OTPH1
Lab Sample ID Client Sample ID (70-130) (70-130)
880-30744-1 FS01A 125	129
880-30744-2 FS02A 118	121
880-30744-3 FS03A 120	122
LCS 880-57730/2-A Lab Control Sample 85	90
LCSD 880-57730/3-A Lab Control Sample Dup 84	90
MB 880-57730/1-A Method Blank 161 S1-	+ 169 S1+

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Midland

Client: Ensolum Job ID: 880-30744-1 Project/Site: MCA 204 SDG: 03D2057088

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-57697/5-A

Analysis Batch: 57653

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57697

		MB	MR						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
	Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
	o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		07/14/23 13:11	07/15/23 09:31	1
ı									

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	75		70 - 130	 07/14/23 13:11	07/15/23 09:31	1
1.4-Difluorobenzene (Surr)	83		70 - 130	07/14/23 13:11	07/15/23 09:31	1

Lab Sample ID: LCS 880-57697/1-A

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 57697

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.1049 mg/Kg 105 70 - 130 Toluene 0.100 0.09855 mg/Kg 99 70 - 130 0.100 Ethylbenzene 0.1115 mg/Kg 112 70 - 130 0.200 112 70 - 130 m-Xylene & p-Xylene 0.2249 mg/Kg 0.100 0.1159 o-Xylene mg/Kg 116 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: LCSD 880-57697/2-A

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 57697

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.1214 mg/Kg 121 70 - 130 15 35 Toluene 0.100 0.1106 mg/Kg 111 70 - 130 11 35 Ethylbenzene 0.100 0.1337 *+ mg/Kg 134 70 - 130 18 35 0.200 m-Xylene & p-Xylene 0.2772 *+ mg/Kg 139 70 - 130 21 35 0.100 o-Xylene 0.1423 *+ mg/Kg 142 70 - 130 20 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1.4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-30744-1 MS

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: FS01A Prep Type: Total/NA

Prep Batch: 57697

-	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00198	U	0.0994	0.1097		mg/Kg		110	70 - 130
Toluene	<0.00198	U	0.0994	0.1021		mg/Kg		103	70 - 130

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QC Sample Results

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

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

Lab Sample ID: 880-30744-1 MS

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: FS01A Prep Type: Total/NA

Prep Batch: 57697

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U *+	0.0994	0.1217		mg/Kg		122	70 - 130	
m-Xylene & p-Xylene	<0.00396	U *+	0.199	0.2458		mg/Kg		124	70 - 130	
o-Xylene	<0.00198	U *+	0.0994	0.1237		mg/Kg		124	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

Lab Sample ID: 880-30744-1 MSD

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: FS01A Prep Type: Total/NA

Prep Batch: 57697

Sample Sample Spike MSD MSD Result Qualifier Added Result Qualifier %Rec RPD Limit Analyte Unit Limits 0.0998 Benzene <0.00198 U 0.09983 mg/Kg 100 70 - 130 9 35 Toluene <0.00198 0.0998 0.09448 mg/Kg 95 70 - 130 8 35 Ethylbenzene <0.00198 U*+ 0.0998 0.1145 mg/Kg 115 70 - 130 6 35 0.200 0.2286 70 - 130 35 m-Xylene & p-Xylene <0.00396 U*+ mg/Kg 115 0.0998 <0.00198 U*+ 0.1143 70 - 130 o-Xylene mg/Kg 115 8

MSD MSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: MB 880-57700/5-A

Matrix: Solid

Analysis Batch: 57653

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57700

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Toluene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		07/14/23 13:20	07/14/23 22:57	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		07/14/23 13:20	07/14/23 22:57	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	77	70 - 130	07/14/23 13:20	07/14/23 22:57	1
1,4-Difluorobenzene (Surr)	87	70 - 130	07/14/23 13:20	07/14/23 22:57	1

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

Lab Sample ID: MB 880-57730/1-A

Matrix: Solid

Analysis Batch: 57996

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

Prep Batch: 57730

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Gasoline Range Organics
 <50.0</td>
 U
 50.0
 mg/Kg
 07/14/23 17:17
 07/19/23 10:55
 1

(GRO)-C6-C10

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Job ID: 880-30744-1 Client: Ensolum Project/Site: MCA 204 SDG: 03D2057088

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

Lab Sample ID: MB 880-57730/1-A

Matrix: Solid Analysis Batch: 57996 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 57730

Prep Batch: 57730

	MR	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 10:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 10:55	1
Total TPH	<50.0	U	50.0	mg/Kg		07/14/23 17:17	07/19/23 10:55	1
		MD						

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 161 S1+ 70 - 130 07/14/23 17:17 07/19/23 10:55 o-Terphenyl 169 S1+ 70 - 130 07/14/23 17:17 07/19/23 10:55

Lab Sample ID: LCS 880-57730/2-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 57996

	Spike	LCS	LCS				%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	853.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	812.0		mg/Kg		81	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 85 70 - 130 90 70 - 130 o-Terphenyl

Lab Sample ID: LCSD 880-57730/3-A

Matrix: Solid

Analysis Batch: 57996

Client Samp	le ID: Lab	Control	Sample	Dup
--------------------	------------	---------	--------	-----

Prep Type: Total/NA Prep Batch: 57730

Spike LCSD LCSD RPD %Rec Added Result Qualifier Unit %Rec Limit Analyte Limits 1000 826.1 83 70 - 130 20 Gasoline Range Organics 3 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 809.3 mg/Kg 81 70 - 130 0 20 C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 84 70 - 130

90 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-57699/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 57705

мв мв Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac 5.00 Chloride <5.00 U mg/Kg 07/15/23 00:20

QC Sample Results

Client: Ensolum Job ID: 880-30744-1 SDG: 03D2057088 Project/Site: MCA 204

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-57699/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** Analysis Batch: 57705

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 252.8 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-57699/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble Analysis Batch: 57705** Spike LCSD LCSD %Rec

RPD Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 250 254.4 mg/Kg 102 90 - 110 20

QC Association Summary

Client: Ensolum Job ID: 880-30744-1 Project/Site: MCA 204 SDG: 03D2057088

GC VOA

Analysis Batch: 57653

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Total/NA	Solid	8021B	57697
880-30744-2	FS02A	Total/NA	Solid	8021B	57697
880-30744-3	FS03A	Total/NA	Solid	8021B	57697
MB 880-57697/5-A	Method Blank	Total/NA	Solid	8021B	57697
MB 880-57700/5-A	Method Blank	Total/NA	Solid	8021B	57700
LCS 880-57697/1-A	Lab Control Sample	Total/NA	Solid	8021B	57697
LCSD 880-57697/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	57697
880-30744-1 MS	FS01A	Total/NA	Solid	8021B	57697
880-30744-1 MSD	FS01A	Total/NA	Solid	8021B	57697

Prep Batch: 57697

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Total/NA	Solid	5035	
880-30744-2	FS02A	Total/NA	Solid	5035	
880-30744-3	FS03A	Total/NA	Solid	5035	
MB 880-57697/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-57697/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-57697/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-30744-1 MS	FS01A	Total/NA	Solid	5035	
880-30744-1 MSD	FS01A	Total/NA	Solid	5035	

Prep Batch: 57700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-57700/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 57862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Total/NA	Solid	Total BTEX	
880-30744-2	FS02A	Total/NA	Solid	Total BTEX	
880-30744-3	FS03A	Total/NA	Solid	Total BTEX	

GC Semi VOA

	•					
ı	_ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
8	380-30744-1	FS01A	Total/NA	Solid	8015NM Prep	
8	380-30744-2	FS02A	Total/NA	Solid	8015NM Prep	
8	380-30744-3	FS03A	Total/NA	Solid	8015NM Prep	
1	MB 880-57730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
l	_CS 880-57730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
l	_CSD 880-57730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Total/NA	Solid	8015B NM	57730
880-30744-2	FS02A	Total/NA	Solid	8015B NM	57730
880-30744-3	FS03A	Total/NA	Solid	8015B NM	57730
MB 880-57730/1-A	Method Blank	Total/NA	Solid	8015B NM	57730
LCS 880-57730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	57730
LCSD 880-57730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	57730

Eurofins Midland

Prep Batch: 57730

QC Association Summary

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

GC Semi VOA

Analysis Batch: 58145

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Total/NA	Solid	8015 NM	
880-30744-2	FS02A	Total/NA	Solid	8015 NM	
880-30744-3	FS03A	Total/NA	Solid	8015 NM	
_					

HPLC/IC

Leach Batch: 57699

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Soluble	Solid	DI Leach	_
880-30744-2	FS02A	Soluble	Solid	DI Leach	
880-30744-3	FS03A	Soluble	Solid	DI Leach	
MB 880-57699/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-57699/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-57699/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Analysis Batch: 57705

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-30744-1	FS01A	Soluble	Solid	300.0	57699
880-30744-2	FS02A	Soluble	Solid	300.0	57699
880-30744-3	FS03A	Soluble	Solid	300.0	57699
MB 880-57699/1-A	Method Blank	Soluble	Solid	300.0	57699
LCS 880-57699/2-A	Lab Control Sample	Soluble	Solid	300.0	57699
LCSD 880-57699/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	57699

Eurofins Midland

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Job ID: 880-30744-1 SDG: 03D2057088

Project/Site: MCA 204

Client Sample ID: FS01A

Lab Sa

Lab Sample ID: 880-30744-1

Matrix: Solid

Date Collected: 07/14/23 09:15 Date Received: 07/14/23 10:54

Client: Ensolum

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			57697	EL	EET MID	07/14/23 13:11
Total/NA	Analysis	8021B		1	57653	AJ	EET MID	07/15/23 09:52
Total/NA	Analysis	Total BTEX		1	57862	AJ	EET MID	07/17/23 14:24
Total/NA	Analysis	8015 NM		1	58145	SM	EET MID	07/20/23 13:08
Total/NA	Prep	8015NM Prep			57730	TKC	EET MID	07/14/23 17:17
Total/NA	Analysis	8015B NM		1	57996	SM	EET MID	07/19/23 15:13
Soluble	Leach	DI Leach			57699	KS	EET MID	07/14/23 13:15
Soluble	Analysis	300.0		1	57705	CH	EET MID	07/15/23 01:06

Client Sample ID: FS02A Lab Sample ID: 880-30744-2

Date Collected: 07/14/23 09:17

Date Received: 07/14/23 10:54

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			57697	EL	EET MID	07/14/23 13:11
Total/NA	Analysis	8021B		1	57653	AJ	EET MID	07/15/23 10:13
Total/NA	Analysis	Total BTEX		1	57862	AJ	EET MID	07/17/23 14:24
Total/NA	Analysis	8015 NM		1	58145	SM	EET MID	07/20/23 13:08
Total/NA	Prep	8015NM Prep			57730	TKC	EET MID	07/14/23 17:17
Total/NA	Analysis	8015B NM		1	57996	SM	EET MID	07/19/23 15:35
Soluble	Leach	DI Leach			57699	KS	EET MID	07/14/23 13:15
Soluble	Analysis	300.0		1	57705	CH	EET MID	07/15/23 01:22

Client Sample ID: FS03A

Date Collected: 07/14/23 09:20

Lab Sample ID: 880-30744-3

Matrix: Solid

Date Received: 07/14/23 10:54

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			57697	EL	EET MID	07/14/23 13:11
Total/NA	Analysis	8021B		1	57653	AJ	EET MID	07/15/23 10:33
Total/NA	Analysis	Total BTEX		1	57862	AJ	EET MID	07/17/23 14:24
Total/NA	Analysis	8015 NM		1	58145	SM	EET MID	07/20/23 13:08
Total/NA	Prep	8015NM Prep			57730	TKC	EET MID	07/14/23 17:17
Total/NA	Analysis	8015B NM		1	57996	SM	EET MID	07/19/23 15:58
Soluble	Leach	DI Leach			57699	KS	EET MID	07/14/23 13:15
Soluble	Analysis	300.0		1	57705	CH	EET MID	07/15/23 01:27

Laboratory References:

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

Eurofins Midland

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Accreditation/Certification Summary

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

Laboratory: Eurofins Midland

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

Authority	F	Program	Identification Number	Expiration Date
Texas		NELAP	T104704400-23-26	06-30-24
The following analytes the agency does not of		out the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
8015B NM	8015NM Prep	Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

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Method Summary

 Client: Ensolum
 Job ID: 880-30744-1

 Project/Site: MCA 204
 SDG: 03D2057088

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	EET MID
Total BTEX	Total BTEX Calculation	TAL SOP	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	Closed System Purge and Trap	SW846	EET MID
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

Eurofins Midland

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Sample Summary

Client: Ensolum Project/Site: MCA 204 Job ID: 880-30744-1

SDG: 03D2057088

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	D
880-30744-1	FS01A	Solid	07/14/23 09:15	07/14/23 10:54	4.5
880-30744-2	FS02A	Solid	07/14/23 09:17	07/14/23 10:54	3.5'
880-30744-3	FS03A	Solid	07/14/23 09:20	07/14/23 10:54	2'

S. RUGOTIS

Enviorment Testing

XANCO

Company Name Project Manager

200

Jenoings

601 N Marienfeld St Suite 400

Address City, State ZIP.

601 N Marienfeld St Suite 400

State of Project:

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐ Work Order Comments

Page

Company Name Bill to. (if different)

Ensolum, LLC

Kaley Jennings

Chain of Custody

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

Work
Work Order No:
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ate ZIP.	Midland, TX 79701	3 3	1	City, State ZIP	- 7	an	Midland, TX 79701	, =	-		.l	Reporting Level II	Level I	V Leve	; = =	ST/US1		Reporting Level III Level III PST/UST TRRP Level IV
Project Name	MCA 204			Turn Around		- 11	ANALYSIS		<u>.</u> }	VALYS!	ᇛᆝᆫ	EST					Preserva	Preservative Codes
Project Number	880/502080	880	☐ Routine	ne Rush	Pres.		-						-		_	Non	None NO	DI Water H ₂ O
Project Location			Due Date	e 7/8/23					_				+	\rfloor	_	 	Cool Cool	MeOH Me
Sampler's Name ⁻	Hadlie Gr	Green	TAT start the lab i	TAT starts the day received by the lab if received by 4 30pm								······				는 된 된	HCL HC	HNO ₃ HN
SAMPLE RECEIPT	PT Temp Blank.		Yes (No.) Wet Ice.	e. Yes No	nete	0)										Ţ,	H 70d'H	
Samples Received Intact	(Pas)	No Therm	Thermometer ID	4	ran	300.										NaH '	NaHSO ₄ NABIS	BIS
Cooler Custody Seals	s. Yes No	MA Corre	Correction Factor	25,7	Pa	PA:										Na ₂ S	Na ₂ S ₂ O ₃ NaSO ₃	တ္
Sample Custody Seals	is Yes No	NA Temp	Temperature Reading	! !		(El)						····			Zn A	cetate+N	Zn Acetate+NaOH Zn
Total Containers		Corre	Corrected Temperature:	re: 4.9	<u>[</u>]	IDES										Nao	H+Ascor	NaOH+Ascorbic Acid SAPC
Sample Identification		Matrix Date Sampled	ite Time pled Sampled	Depth Grab/	b/ # of np Cont	CHLOR	TPH (80 BTEX (8			-,					<u></u>		Sample	Sample Comments
FSOIA		S 7 H	14/23 9-15	+ 5 C		X	× ×											
FS02A		5	1:12	3.5.														
FSO3A		S	er: 20	22	_	(€ €								+	1		
							+		_									
														880-3	880-30744 Chain of Custody	nain of C	ustody	1
		-			-	1	-			+				1	<u> </u>	\parallel		
					\vdash													
Total 200.7 / 6010	10 200.8 / 6020:	20:	8RCRA	13PPM Texas 11	≥	Sb As	Ba Be	B Cd Ca	a Cr Co	o Cu Fe		g Mn N	No Ni	K Se A	yg SiO ₂	Na Sr	TI Sn	Pb Mg Mn Mo Ni K Se Ag SiO₂ Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed	nd Metal(s) to be	analyzed	TCLP	TCLP / SPLP 6010	8RCRA	Sb As	Sb As Ba Be Cd Cr Co Cu Pb Mn	ς 2	Co Cu	Pb Mn	l lit	Mo Ni Se Ag Ti U	TI U		Hg 163	1 / 245	Hg 1631 / 245 1 / 7470 / 7471) /7471
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.	document and relinqui co will be liable only fo imum charge of \$85.0	shment of samp ir the cost of sar 0 will be applied	iles constitutes a v nples and shall not to each project an	alid purchase order f assume any respon d a charge of \$5 for e	rom client sibility for a each sampl	company t any losses e submitte	o Eurofins or expens d to Eurofi	Xenco, its es incurred es Xenco, t	affiliates a by the clie out not ana	nd subcont int if such lyzed. The	tractors. It assigns standard terms and conditions losses are due to circumstances beyond the control se terms will be enforced unless previously negotiat	assigns st due to circ Il be enfon	andard te umstance ced unles	rms and c s beyond t s previous	onditions the contro ly negotia	ted.		
Relinquished by: (Signature)	· (Signature)	, Re	Rece)ved by: (Signature)	gnature)		Date/Time	ime	Re	linquish	ed by (Relinquished by (Signature)	<u>w</u>	Rec	Received by (Signature)	y (Sign	ature)		Date/Time
Transfer	gwrd 2		X	N	1	71	22	2										
3 , d	C				-	3	15	4										
5								6										

Revised Date 08/25/2020 Rev 2020.2

Login Sample Receipt Checklist

 Client: Ensolum
 Job Number: 880-30744-1

 SDG Number: 03D2057088

List Source: Eurofins Midland

Login Number: 30744 List Number: 1

Creator: Rodriguez, Leticia

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

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APPENDIX D

NMOCD Notifications

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

To: <u>Aimee Cole</u>

Cc: Bryce.Wagoner@mavresources.com; Kalei Jennings; Bratcher, Michael, EMNRD

Subject: Maverick Permian- Extension Request - MCA 204 (Incident Number NAPP2311751602)

Date: Tuesday, July 18, 2023 12:24:09 PM

Attachments: Outlook-2lvh3xsz.pnq

[**EXTERNAL EMAIL**]

Aimee,

Your 45-day time extension request is approved. The Remediation Due date has been updated to 09/05/2023.

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/



From: Buchanan, Michael, EMNRD

To: <u>Kalei Jennings</u>; <u>Enviro</u>, <u>OCD</u>, <u>EMNRD</u>; <u>Velez</u>, <u>Nelson</u>, <u>EMNRD</u>

Cc: Aimee Cole

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)

Date: Monday, July 3, 2023 1:01:25 PM

Attachments: <u>image005.jpq</u>

image006.png image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Good afternoon,

Thank you for the notification. Please include a copy of this and all notifications in the C-141, remedial and/or closure reports to ensure the notifications are documented in the project file.

Regards,

Mike Buchanan • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
8801 Horizon Blvd. NE | Albuquerque, NM 87113

| michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Monday, July 3, 2023 1:14 PM

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

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/3/2023)

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 site the week of July 3, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/6/2023 & 7/7/2023

MCA #1 South Transfer Line / NAPP2314650185

- Sampling Date: 7/6/2023
- EVGSAU 2437-001 / NAPP2303273838
 - Sampling Date: 7/6/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC

Attachments:

From: Enviro, OCD, EMNRD
To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)

Date: Monday, July 10, 2023 8:31:06 AM

image005.jpq image006.pnq image007.pnq image008.pnq

image009.png

[**EXTERNAL EMAIL**]

Kalei,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Friday, July 7, 2023 4:14 PM

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

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/10/2023)

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 site the week of July 10, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/10/2023 through 07/13/2023

- State FTG #001 / NAPP2233947938
 - Sampling Date: 7/12/2023 & 7/13/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/13/2023
- Encore M State #8 / NAPP2316640406
 - Sampling Date: 7/14/2023
- SEMU 37 / NAPP2316638385
 - Sampling Date: 7/14/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503

Ensolum, LLC

From: Enviro, OCD, EMNRD

To: Kalei Jennings

Cc: Bratcher, Michael, EMNRD; Velez, Nelson, EMNRD

Subject: RE: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

Date: Friday, July 14, 2023 7:42:46 AM

Attachments: image005.ipgimage006.png

image007.png image008.png image009.png

[**EXTERNAL EMAIL**]

Kalei,

Notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | <u>Jocelyn.Harimon@emnrd.nm.gov</u>

http://www.emnrd.nm.gov



From: Kalei Jennings <kjennings@ensolum.com>

Sent: Thursday, July 13, 2023 2:05 PM

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

Cc: Aimee Cole <acole@ensolum.com>

Subject: [EXTERNAL] Maverick- Sampling Notification (Week of 7/17/2023)

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 site the week of July 17, 2023.

- MCA 204 / NAPP2311751602
 - Sampling Date: 7/17/2023 through 07/19/2023

- State F TG #001 / NAPP2233947938
 - Sampling Date: 7/17/2023 & 7/18/2023
- MCA 409 Flowline / NAPP2318846991
 - Sampling Date: 7/17/2023
- SEMU 34 / NAPP2314257831
 - Sampling Date: 7/19/2023 & 7/20/2023

Thank you,



Kalei Jennings Senior Scientist 817-683-2503 Ensolum, LLC



APPENDIX E

Final 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	NAPP2311751602
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party: Mave	rick Permian, LLC	2	OGRID	
Contact Nam	ne: Bryce Wa	agoner		Contact T	Telephone: 928-241-1862
Contact ema	il: Bryce.Wa	ngoner@mavresour	rces.com	Incident #	# (assigned by OCD)
Contact mail	ing address:	1410 NW County R	oad Hobbs, NM 882	40	
			Location	of Release S	ource
Latitude 32.8	001257		(NAD 83 in deci	Longitude mal degrees to 5 deci	-103.7520913
Site Name: M	ICA 204			Site Type:	
Date Release	Discovered:	April 20th, 2023		API# (if ap	pplicable): 30-025-00723
Unit Letter O	Section 27	Township 17S	Range 32E	Cou Le	
Crude Oil		l(s) Released (Select al Volume Release			Release c justification for the volumes provided below) Volume Recovered (bbls) 0 bbls
Produced		Volume Release			Volume Recovered (bbls) 0 bbls
Z Troduced	Is the concentration of dissolved chloride i produced water >10,000 mg/l?		loride in the	Yes No	
Condensa	ite	Volume Release			Volume Recovered (bbls)
Natural G	ias	Volume Release	d (Mcf)		Volume Recovered (Mcf)
Other (de	scribe)	Volume/Weight	Released (provide	units)	Volume/Weight Recovered (provide units)
Cause of Rel	ease:				
					els of produced water and 5 barrels of crude oil. An area mediately called and recovered all standing fluid.

77		-	_	-6 /	
Dago	16	. 5	nt.	7	7 # #
Page	1 U	J ("	1	U

Incident ID	NAPP2311751602
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Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the respo	nsible party consider this a major release?
If YES, was immediate no	otice given to the OCD? By whom? To wi	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
☐ The impacted area ha☐ Released materials ha	ease has been stopped. as been secured to protect human health and ave been contained via the use of berms or a ecoverable materials have been removed an	likes, absorbent pads, or other containment devices.
	d above have <u>not</u> been undertaken, explain	
has begun, please attach	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 environr failed to adequately investig	required to report and/or file certain release not ment. The acceptance of a C-141 report by the Gate and remediate contamination that pose a thro	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 eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Bryce V	Vagoner	Title:Permian HSE Specialist II
Signature:	7	Date: <u>5/1/2023</u>
email:Bryce.Wago	oner@mavresources.com	Telephone:928-241-1862
OCD Only Received by: Jocel	yn Harimon	Date:05/01/2023

Spill Volume(Bbls) Calculator			
Inputs in blue, Outputs in red			
Co	Contaminated Soil measurement		
Length(Ft)	Width(Ft)	Depth(Ft)	
<u>552</u>	<u>25.000</u>	<u>0.125</u>	
Cubic Feet of S	Soil Impacted	<u>1725.000</u>	
Barrels of Soil Impacted		<u>307.49</u>	
Soil Type		Clay	
Barrels of Oi	l Assuming	<u>30.75</u>	
100% Sat	uration	30.73	
Saturation	Fluid	present when squeezed	
Estimated Ba	arrels of Oil		
Released		15.37	
Free Standing Fluid Only			

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State of New Mexico

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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>>100</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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.
☐ Data table of soil contaminant concentration data ☐ Depth to water determination	
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	
Boring or excavation logs Photographs including date and GIS information	
☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody	

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.

Received by OCD: 8/10/2023 2:51:13 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID	NAPP2311751602
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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 II	
Signature:	Date:08/10/2023 Telephone: _928-241-1862	
OCD Only		
Received by: Shelly Wells	Date: 8/10/2023	

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Incident ID	NAPP2311751602
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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.

 ☑ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection) ☑ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling) ☑ Description of remediation activities
□ Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name:Bryce Wagoner Title:Permian HSE Specialist II
OCD Only
Received by: Shelly Wells Date: 8/10/2023
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Scott Rodgers Printed Name: Scott Rodgers Date: 11/15/2023 Environmental Specialist/ Adv
Printed Name: Scott Rodgers Title: Environmental Specialist/ Adv

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 250680

CONDITIONS

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	250680
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	11/15/2023