

September 19, 2022

District 1 New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

Re: Closure Request

Maddox Federal B #1 Well Site Incident Number NAPP2211065721 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this Closure Request to document site assessment, excavation, and soil sampling activities performed at the Maddox Federal B #1 Well Site (Site). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil resulting from a crude oil and natural gas release at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, BTA is submitting this Closure Request, describing remediation that has occurred and requesting closure for Incident Number NAPP2211065721.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit F, Section 35, Township 22 South, Range 34 East, in Lea County, New Mexico (32.0598° N, 103.60435° W) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On April 20, 2022, during the plug and abandonment first circulation of the well, the blowout preventer (BOP) was not closed correctly around the tubing, resulting in the release of approximately 67 barrels (bbls) of crude oil and 3,000 cubic feet (3 MCF) of natural gas onto the well pad. A vacuum truck was dispatched to the Site to recover free-standing fluids; approximately 60 bbls of crude oil was recovered. BTA reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via NOR filed on April 20, 2022 and submitted a Release Notification Form C-141 (Form C-141) on May 5, 2022. The release was assigned Incident Number NAPP2211065721.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) 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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 601 Marienfield #400 | Midland, TX 78209 | ensolum.com Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



groundwater data is New Mexico Office of the State Engineer (NMOSE) Well C-01802, located approximately 0.6 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 105 feet bgs and a total depth of 200 feet bgs. Ground surface elevation at the groundwater well location is 3,417 feet above mean sea level (amsl), which is approximately 9 feet higher in elevation than the Site. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,206 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring 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 1 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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On June 16, 2022 and July 12, 2022, Ensolum personel completed Site visits to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent at a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

The preliminary soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of 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 SM4500.

Laboratory analytical results for preliminary soil samples SS05 through SS09, collected within the release extent, indicated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary samples SS01 through SS04, collected outside the release extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride



concentrations were compliant with the most stringest Table 1 Closure Criteria and confirmed the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results for preliminary soil samples SS05 through SS09, additional remediation activities appeared to be warranted.

EXCAVATION SOIL SAMPLING ACTIVITIES

Between August 1 and August 29, 2022, Ensolum personnel were at the Site to oversee excavation activities. Impacted soil was excavated from the release area as indicated by visible staining and laboratory analytical results for preliminary soil samples SS05 through SS09. Excavation activities completed on pad, were performed using a track-mounted backhoe and transport vehicles. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to depths ranging from 4 feet bgs to 5 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of the impacted soil, 5-point composite soil samples were collected every 200 square feet from the sidewalls and floor 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 FS40 were collected from the floor of the excavation at depths ranging from 4 feet to 5 feet bgs. Composite soil samples SW01 through SW09 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3.

The excavation area measured approximately 8,019 square feet. A total of approximately 1,485 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Northern Delaware Basin Landfill in Lea County, New Mexico.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for excavation floor samples FS01 through FS19 and FS21 through FS40 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Excavation sidewall soil samples SW01, SW04, and SW06 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for excavation floor sample FS20 and excavation sidewall samples SW02, SW03, and SW05 initially indicated TPH and/or TPH-GRO/TPH-DRO and chloride concentrations exceeded the Closure Criteria. Additional soil was removed and subsequent excavation floor sample FS20A and sidewall samples SW07 through SW09, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix C.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 20, 2022, crude oil and natural gas release. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and the applied reclamation requirement. Based on the soil sample analytical results, no further remediation appears to be required. BTA will backfill the excavation with material purchased locally and recontour the Site following reclamation of the remainder of the pad.



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 other sensitive receptors were identified near the release extent. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number NAPP2211065721. The Form C-141 is included as Appendix E.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, **Ensolum, LLC**

Hadlie Green Staff Geologist

Tacoma Morrissey Senior Geologist

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cc: Bob Hall, BTA Oil Producers, LLC

Bureau of Land Management

Appendices:

Figure 1 Site Location Map

Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Table 1 Soil Sample Analytical Results
Appendix A Referenced Well Records

Appendix B Photographic Log

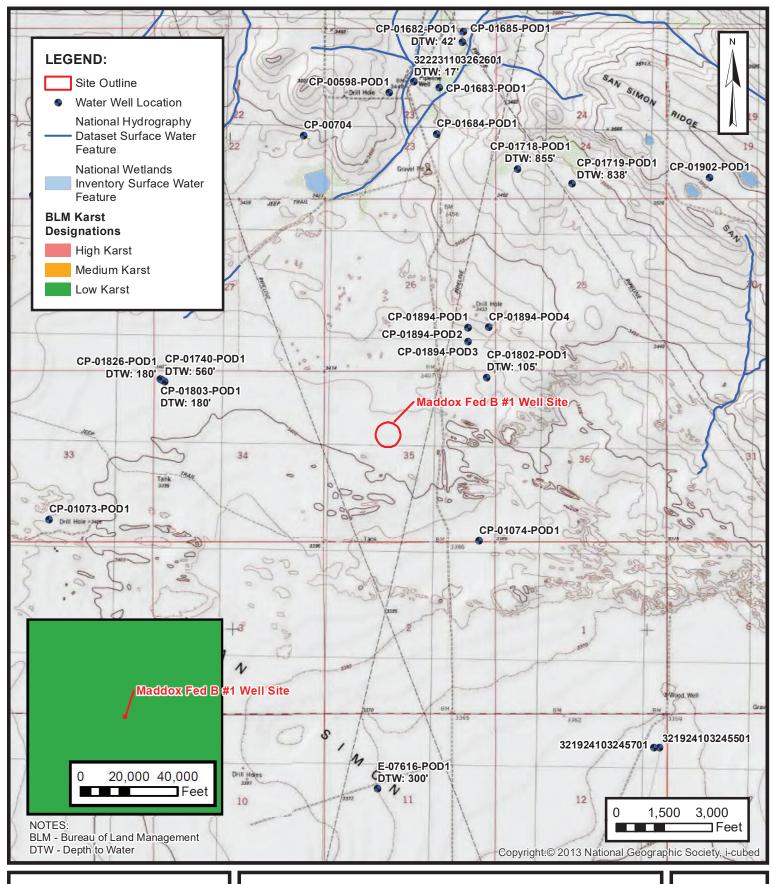
Appendix C Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix D NMOCD Sample Notification

Appendix E Final C-141



FIGURES



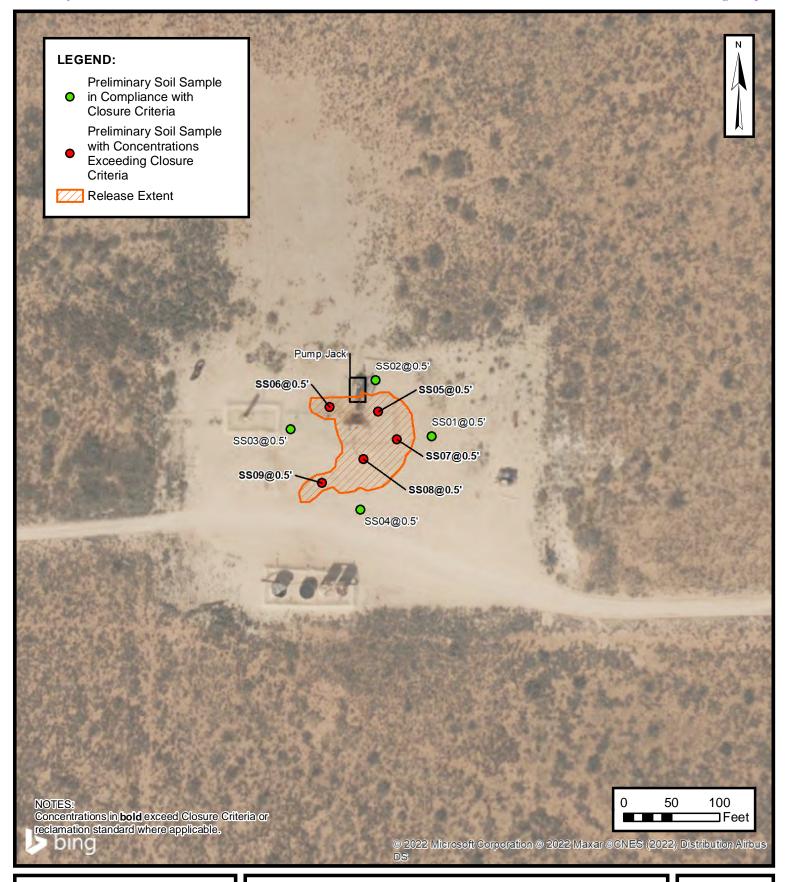


SITE RECEPTOR MAP

BTA OIL PRODUCERS, LLC MADDOX FED B #1 WELL SITE NAPP2211065721

NAPP2211065721 Unit F Sec 35 T22S R34E Lea County, New Mexico FIGURE

1



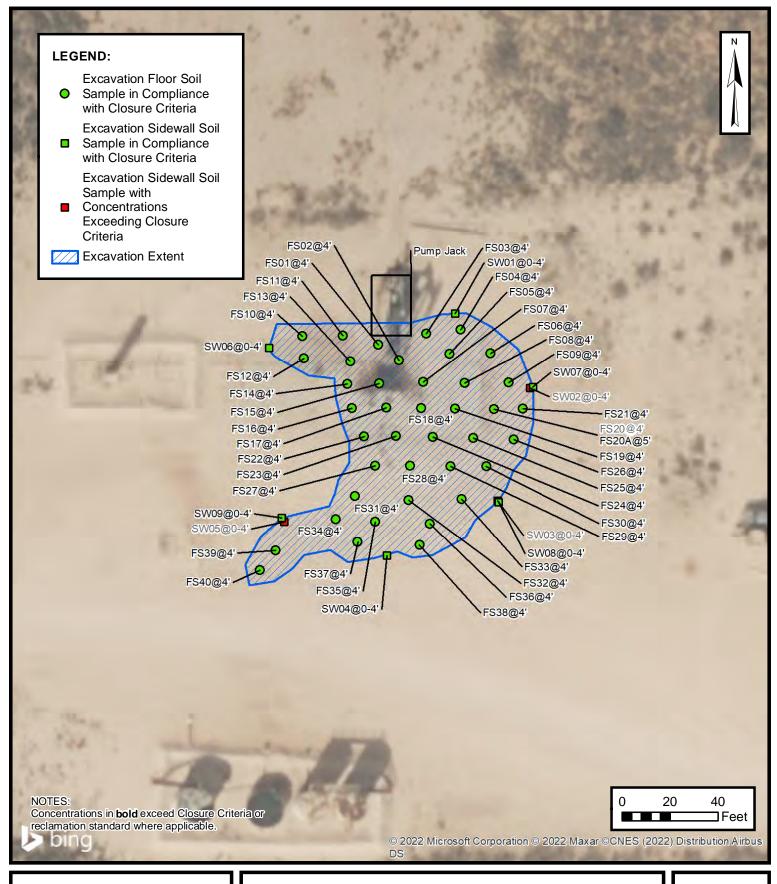


PRELIMINARY SOIL SAMPLE LOCATIONS

BTA OIL PRODUCERS, LLC
MADDOX FEDERAL B #1 WELL SITE
NAPP2211065721
Unit F Sec 35 T22S R34E
Lea County, New Mexico

FIGURE

2





EXCAVATION SOIL SAMPLE LOCATIONS

BTA OIL PRODUCERS, LLC
MADDOX FEDERAL B #1 WELL SITE
NAPP2211065721

Unit F Sec 35 T22S R34E Lea County, New Mexico FIGURE

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Maddox Federal B #1 Well Site BTA Oil Producers, LLC Incident Number NAPP2211065721 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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
				Prelimina	ry Assessment So	oil Samples	<u> </u>	<u> </u>	<u> </u>	
SS01	06/16/2022	0.5	<0.050	<0.300	<10.0	15.0	<10.0	15.0	15.0	96.0
SS02	06/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS03	06/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS04	06/16/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS05	07/12/2022	0.5	< 0.050	1.56	234	9,640	1,770	9,874	11,644	160
SS06	07/12/2022	0.5	< 0.050	< 0.300	<10.0	70.4	18.0	70.4	88.4	240
SS07	07/12/2022	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS08	07/12/2022	0.5	<0.050	19.4	746	13,100	2,180	13,846	16,026	176
SS09	07/12/2022	0.5	<0.050	< 0.300	<10.0	643	200	643	843	19,800
				Excav	ation Floor Soil S	amples				
FS01	08/01/2022	4	<0.050	<0.300	<10.0	630	106	630	736	400
FS02	08/01/2022	4	<0.050	<0.300	<10.0	34.5	<10.0	34.5	<10.0	160
FS03	08/02/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS04	08/02/2022	4	<0.050	<0.300	<10.0	12.1	<10.0	12.1	12.1	48.0
FS05	08/02/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS06	08/02/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS07	08/02/2022	4	<0.050	<0.300	<10.0	15.0	<10.0	15.0	15.0	64.0
FS08	08/02/2022	4	<0.050	<0.300	<10.0	10.3	<10.0	10.3	10.3	32.0
FS09	08/02/2022	4	<0.050	<0.300	<10.0	45.3	19.6	45.3	64.9	48.0
FS10	08/02/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS11	08/02/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS12	08/02/2022	4	<0.050	<0.300	<10.0	10.8	<10.0	10.8	10.8	64.0
FS13	08/02/2022	4	<0.050	<0.300	<10.0	48.7	11.2	48.7	59.9	160
FS14	08/02/2022	4	<0.050	<0.300	<10.0	10.5	<10.0	10.5	10.5	96.0
FS15	08/02/2022	4	<0.050	<0.300	<10.0	27.7	<10.0	27.7	27.7	240
FS16	08/03/2022	4	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Maddox Federal B #1 Well Site BTA Oil Producers, LLC Incident Number NAPP2211065721 Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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
FS17	08/03/2022	4	<0.050	<0.300	<10.0	49.6	19.7	49.6	69.3	80.0
FS18	08/03/2022	4	<0.050	<0.300	<10.0	16.9	<10.0	16.9	16.9	80.0
FS19	08/03/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
FS20	08/03/2022	4	< 0.050	< 0.300	<10.0	2,290	601	2,290	2,891	80.0
FS20A	08/29/2022	5	< 0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS21	08/03/2022	4	<0.050	<0.300	<10.0	137	46.3	137	183.3	80.0
FS22	08/03/2022	4	<0.050	<0.300	<10.0	44.2	14.8	44.2	59.0	80.0
FS23	08/03/2022	4	<0.050	<0.300	<10.0	51.8	13.3	51.8	65.1	112
FS24	08/03/2022	4	<0.050	<0.300	<10.0	125	24.4	125	149.4	64.0
FS25	08/03/2022	4	<0.050	<0.300	<10.0	234	51.0	234	285	128
FS26	08/03/2022	4	<0.050	<0.300	<10.0	148	22.9	148	170.9	48.0
FS27	08/03/2022	4	<0.050	<0.300	<10.0	196	32.5	196	228.5	48.0
FS28	08/03/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
FS29	08/03/2022	4	<0.050	<0.300	<10.0	374	96.4	374	470.4	48.0
FS30	08/03/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
FS31	08/03/2022	4	<0.050	<0.300	<10.0	153	17.9	153	170.9	80.0
FS32	08/03/2022	4	<0.050	<0.300	<10.0	85.8	15.0	85.8	100.8	48.0
FS33	08/03/2022	4	<0.050	<0.300	<10.0	75.2	<10.0	75.2	75.2	48.0
FS34	08/03/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS35	08/03/2022	4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
FS36	08/03/2022	4	<0.050	<0.300	<10.0	140	12.8	140	152.8	48.0
FS37	08/03/2022	4	<0.050	<0.300	<10.0	278	28.9	278	306.9	48.0
FS38	08/03/2022	4	<0.050	<0.300	<10.0	80.9	<10.0	80.9	80.9	32.0
FS39	08/03/2022	4	<0.050	<0.300	<10.0	12.0	<10.0	12.0	12.0	16.0
FS40	08/03/2022	4	<0.050	<0.300	<10.0	69.9	<10.0	69.9	69.9	64.0

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TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Maddox Federal B #1 Well Site

BTA Oil Producers, LLC
Incident Number NAPP2211065721
Lea County, New Mexico

Sample I.D.	Sample Date	Sample 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 C	Closure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Excavat	ion Sidewall Soil	Samples				
SW01	08/03/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW02	08/03/2022	0 - 4	< 0.050	<0.300	<10.0	954	175	954	1,129	752
SW03	08/03/2022	0 - 4	< 0.050	< 0.300	<10.0	104	10.8	104	114.8	64.0
SW04	08/03/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW05	08/03/2022	0 - 4	< 0.050	<0.300	<10.0	607	127	607	734	80.0
SW06	08/03/2022	0 - 4	<0.050	<0.300	<10.0	67.8	14.3	67.8	82.1	160
SW07	08/29/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SW08	08/29/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SW09	08/29/2022	0 - 4	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0

Notes:

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

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

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

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Gray text represents samples that have been excavated

Ensolum 3 of 3



APPENDIX A

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

NO	OSE POD NO CP-1802	(WELL NO	1	WELL TAG ID NO. 22472		OSE FILE NO	Sı	·			
OCAT!	WELLOWN LIMESTO		N PROPERTIES R	ANCII LLC	•	PHONE (OPTI	ONAL)				
GENERAL AND WELL LOCATION	WELL OWN 3300 N A		BLDG 1, STE 220			CITY STATE ZIP MIDLAND TX 79705					
L AND	WELL LOCATIO	N LA	DE	GREES MINUTES SECT 32 21 17	ONDS 7.43 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
ERA	(FROM GF	'S1	NGITUDE	103 25 59	0.15 W	* DATUM RE	QUIRED: WGS 84				
1. GEN			IG WELL LOCATION TO /4 S35 T22S R34E	STREET ADDRESS AND COMMON LANDI	MARKS PLS	SS (SECTION, TO	WNSIUIP, RANGE) WH	ERE AVAILABLE			
	LICENSE NO WD1		NAME OF LICENSED	DRILLER BRYCE WALLACE			NAME OF WELL DR	ILLING COMPANY LLERS CORPORAT	ION		
	DRILLING S		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT) 200	1	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT N/A	l		
,	COMPLETE	O WELL IS:	ARTESIAN	7 DRY HOLE SHALLOW (UNC	ONFINED)		STATIC WATER LEV	VEL IN COMPLETED WE N/A	ELL (FT)		
TIOI	DRILLING F.	LUID:	AIR	✓ MUD ADDITIVES SPI	ECTFY:		<u> </u>				
RMA	DRILLING M	штнор:	√ ROTARY	HAMMER CABLE TOOL	ОТНЕ	R SPECIFY:					
INFC	DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR GRADE	C/	ASING	CASING	CASING WALL	SLOT		
DRILLING & CASING INFORMATION	FROM	TO	DIAM (inches)	(include each easing string, and note sections of screen)	1	NECTION FYPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)		
S C	0	160	7 7/8	SDR17 PVC		PLINE	4.28	SDR17			
LING	160	200	7 7/8	SDR17 PVC	SI	PLINE	4.28	SDR17	.32		
ORIL								8			
2. I								270			
			<u> </u>		<u></u>			10			
									1		
								ω			
									F-000 ₀₀₀₀ -2		
	DEPTH	(feet hol)	BORE HOLE	LIST ANNULAR SEAL M.	ATERIAL /	AND.	AMOUNT	METHO	D OP '> =		
AI.	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANG			(cubic feet)	PLOCEN	D OR SE		
ERL	25	200	7 7/8	8/16 SILICA SA	ND		40	POU	R		
MAT	0	25	7 7/8	PORTLAND	/11		6	POU	R		
AR											
ANNULAR MATERIAI			-								
<i>ન</i>		· · · · · · · · · · · · · · · · · · ·			. <u> </u>						
FOR	OSE INTER	NAL USF		1		WR-20	0 WELL RECORD :	& LOG (Version 04:3	0 19)		
FILE			02	POD NO.	1	TRN		873			
LOC	ATION	سند	12.30	4.35.222		WELL TAG II	ONO. 224		1 OF 2		

PAGE 2 OF 2

WELL TAG ID NO.

LOCATION



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water	Resources
-------------------	-----------

Data Category:		Geographic Area:		
Groundwater	~	United States	~	GO

∨ GO

Click to hideNews Bulletins

- Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.
- Full News

Groundwater levels for the Nation

Important: <u>Next Generation Monitoring Location Page</u>

Search Results -- 1 sites found

Agency code = usgs **site_no list =** • 322231103262601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 322231103262601 22S.34E.23.23131

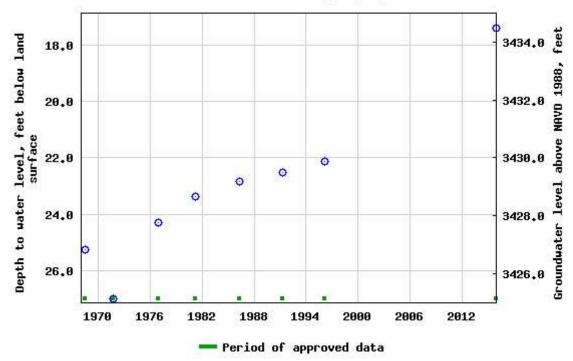
Available data for this site Groundwater: Field measurements

ea County, New Mexico
lydrologic Unit Code 13070007
atitude 32°22'47.6", Longitude 103°26'25.3" NAD83
and-surface elevation 3,452 feet above NAVD88
he depth of the well is 60 feet below land surface.
his well is completed in the Other aquifers (N9999OTHER) national aquifer.
his well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits
110AVMB) local aquifer.

Output formats

Table of data	
<u>Tab-separated data</u>	
Graph of data	
Reselect period	

USGS 322231103262601 225,34E,23,23131



Breaks in the plot represent a gap of at least one year between field measurements. <u>Download a presentation-quality graph</u>

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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2022-04-29 16:06:32 EDT

0.66 0.59 nadww01





APPENDIX B

Photographic Log



Photographic Log BTA Oil Producers, LLC Maddox Federal B #1 Well Site Incident Number NAPP2211065721





Photograph 1 Date: August 1, 2022 Description: Photo of excavation extent, facing northwest.

Photograph 2 Date: August 2, 2022 Description: Photo of excavation activities, facing southeast.



Photograph 3 Date: August 29, 2022
Description: Photo of excavation extent, facing southeast.



Photograph 4 Date: August 29, 2022 Description: Photo of excavation extent, facing east.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



June 21, 2022

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 // NAPP2211065721

Enclosed are the results of analyses for samples received by the laboratory on 06/17/22 14:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2022 Sampling Date: 06/16/2022

Reported: 06/21/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - EDDY CO NM

Sample ID: SS 01 @ .5' (H222607-01)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	1.88	94.1	2.00	0.751	
Toluene*	<0.050	0.050	06/20/2022	ND	1.89	94.6	2.00	0.552	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.81	90.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.62	93.7	6.00	1.62	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/21/2022	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	173	86.6	200	3.87	
DRO >C10-C28*	15.0	10.0	06/20/2022	ND	167	83.7	200	9.72	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.3	% 59.5-14	2						

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

Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2022 Reported:

06/21/2022

Sampling Date:

06/16/2022

Project Name:

Sampling Type: Sampling Condition: Soil Cool & Intact

Project Number:

MADDOX FED B #1 // NAPP2211065721

Sample Received By:

Tamara Oldaker

RTFY 8021R

03C2012001

Project Location:

BTA - EDDY CO NM

Sample ID: SS 02 @ .5' (H222607-02)

BIEX 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	06/20/2022	ND	1.88	94.1	2.00	0.751	
Toluene*	<0.050	0.050	06/20/2022	ND	1.89	94.6	2.00	0.552	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.81	90.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.62	93.7	6.00	1.62	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/21/2022	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/20/2022	ND	173	86.6	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/20/2022	ND	167	83.7	200	9.72	
EXT DRO >C28-C36	<10.0	10.0	06/20/2022	ND					
Surrogate: 1-Chlorooctane	89.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	99.4	% 59.5-14	2						

Applyzod By: 14

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2022 Reported: 06/21/2022

06/21/2022 MADDOX FED B #1 // NAPP2211065721

Project Name: MADDOX FE Project Number: 03C2012001

Project Location: BTA - EDDY CO NM

Sampling Date: 06/16/2022

Sampling Type: Soil

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

Sample ID: SS 03 @ .5' (H222607-03)

BTEX 8021B	mg/kg		Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	1.88	94.1	2.00	0.751	
Toluene*	<0.050	0.050	06/20/2022	ND	1.89	94.6	2.00	0.552	
Ethylbenzene*	< 0.050	0.050	06/20/2022	ND	1.81	90.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.62	93.7	6.00	1.62	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2022	ND	173	86.6	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/21/2022	ND	167	83.7	200	9.72	
EXT DRO >C28-C36	<10.0	10.0	06/21/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.7	% 59.5-14	2						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 06/17/2022 Reported: 06/21/2022

06/21/2022 MADDOX FED B #1 // NAPP2211065721

Project Name: MADDOX FE Project Number: 03C2012001

Project Location: BTA - EDDY CO NM

Sampling Date: 06/16/2022

Sampling Type: Soil

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

Sample ID: SS 04 @ .5' (H222607-04)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/20/2022	ND	1.88	94.1	2.00	0.751	
Toluene*	<0.050	0.050	06/20/2022	ND	1.89	94.6	2.00	0.552	
Ethylbenzene*	<0.050	0.050	06/20/2022	ND	1.81	90.4	2.00	1.25	
Total Xylenes*	<0.150	0.150	06/20/2022	ND	5.62	93.7	6.00	1.62	
Total BTEX	<0.300	0.300	06/20/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/21/2022	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/21/2022	ND	173	86.6	200	3.87	
DRO >C10-C28*	<10.0	10.0	06/21/2022	ND	167	83.7	200	9.72	
EXT DRO >C28-C36	<10.0	10.0	06/21/2022	ND					
Surrogate: 1-Chlorooctane	85.3	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.3	% 59.5-14	2						

Applyzod By: 14

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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

Company Name:	CHROINII											8	BILL TO					A	ANALYSIS REQUEST	SIS	20	5	Ī	ä					
Project Manager	Project Manager: Tacoma Morrissey								O.	P.O. #:	*				٦	1]	إ-	-15	18	2	1	1	1=	-		7	1	L
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Project #: 03C2012001	12001	Project Owner:	ň						0	3	Mid	City: Midland	0		0.0			-	-			-			-				
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Project Location:	: Eddy County								0	Phone #:	*		432-312-2203		00			-	-	-		-						-	
Sampler Name:	Chris Brown								Ti	Fax #:	.				150			-					-		-				-
FOR LAB USE ONLY						3	MATRIX	×	1	용	PRESERV.	RV.	SAMPLING	LING) 4					-		PROPERTY				dominadala		-	
Lab I.D.	Sample I.D.	.b.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER WASTEWATER		OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DA.	TIME	Chloride (EPA 300)	TPH (EPA 8015)	BTEX (EPA 8021)												
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PLEASE NOTE: Liability and D analyses. All claims including to service. In no event shall Cardi affiliates or successors arising of	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for neighborous and any other cause whatscever shall be deemed whated unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be to include that or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits nourred by client, its subsidiaries, affiliates or expectations arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claims to beset dup on any of the above stated reservoir or otherwise.	int's exclusive remady for any claim arising whether based in contract or tort, shall be limited to the amountained whether based in contract or tort, shall be limited to the amountaine what some shall be deemed walved unless made in writing and received by Cardinal within 30 day juntial damages, including without limitation, business interruptions, loss of use, or loss of profits incrured of services hereuries by Cardinal, regardless of whether such claim is based upon any of the above state.	ry claim a feemed w without fa ardinal, re	rising walved umitation	hether niess r busin	based nade in ess int	in cor n writin errupti	tract of g and ons, to laim is	r tort, receives of a	shall the ed by use, or	be lim Cardin Cardin	ited to nal with of prof	the amount paid thin 30 days after offis incurred by clie above stated reason	y the client for the ompletion of the a nt, its subsidiaries, ons or otherwise.	pplicab		-	-	+	-			-			-		-	L
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July 19, 2022

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 // NAPP2211065721

Enclosed are the results of analyses for samples received by the laboratory on 07/13/22 10:52.

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)

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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/13/2022 Sampling Date: 07/12/2022 Reported: 07/19/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact
Project Number: 03C2012001 (32.34997, - 103.44293) Sample Received By: Shalyn Rodriguez

Project Location: BTA - EDDY CO NM

Sample ID: SS 05 @ 0.5' (H223040-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2022	ND	2.04	102	2.00	10.4	
Toluene*	0.126	0.050	07/18/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	0.117	0.050	07/18/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	1.32	0.150	07/18/2022	ND	6.62	110	6.00	10.1	
Total BTEX	1.56	0.300	07/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	226	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	07/15/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	234	100	07/15/2022	ND	168	84.1	200	15.8	
DRO >C10-C28*	9640	100	07/15/2022	ND	177	88.4	200	14.7	
EXT DRO >C28-C36	1770	100	07/15/2022						
Surrogate: 1-Chlorooctane	176	% 43-149)						
Surrogate: 1-Chlorooctadecane	234	% 42.5-16	1						

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Celeg D. Freene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/13/2022 Sampling Date: 07/12/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012001 (32.34997, - 103.44293) Shalyn Rodriguez

Project Location: BTA - EDDY CO NM

Sample ID: SS 06 @ 0.5' (H223040-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	10.4	
Toluene*	<0.050	0.050	07/16/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.62	110	6.00	10.1	
Total BTEX	<0.300	0.300	07/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	118 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	07/15/2022	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	184	91.9	200	20.0	
DRO >C10-C28*	70.4	10.0	07/15/2022	ND	182	90.9	200	18.4	
EXT DRO >C28-C36	18.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	79.7 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.8	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/13/2022 Sampling Date: 07/12/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012001 (32.34997, - 103.44293) Shalyn Rodriguez

Project Location: BTA - EDDY CO NM

Sample ID: SS 07 @ 0.5' (H223040-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/16/2022	ND	2.04	102	2.00	10.4	
Toluene*	<0.050	0.050	07/16/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	<0.050	0.050	07/16/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.62	110	6.00	10.1	
Total BTEX	<0.300	0.300	07/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	119	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/15/2022	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	184	91.9	200	20.0	
DRO >C10-C28*	<10.0	10.0	07/15/2022	ND	182	90.9	200	18.4	
EXT DRO >C28-C36	<10.0	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	80.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	90.2	% 42.5-16	1						

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S-04



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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/13/2022 Sampling Date: 07/12/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact Project Number: 03C2012001 (32.34997, - 103.44293) Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA - EDDY CO NM

Sample ID: SS 08 @ 0.5' (H223040-04)

BTEX 8021B

BIEX 8021B	mg	/ Kg	Anaiyze	а ву: эп					3-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2022	ND	2.04	102	2.00	10.4	
Toluene*	0.169	0.050	07/18/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	2.66	0.050	07/18/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	16.6	0.150	07/18/2022	ND	6.62	110	6.00	10.1	
Total BTEX	19.4	0.300	07/18/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	423	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/15/2022	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	ed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	746	100	07/15/2022	ND	184	91.9	200	20.0	
DRO >C10-C28*	13100	100	07/15/2022	ND	182	90.9	200	18.4	
EXT DRO >C28-C36	2180	100	07/15/2022	ND					
Surrogate: 1-Chlorooctane	248	% 43-149)						
Surrogate: 1 Chloroctadecane	254	0/2 12 5 16	:1						

254 % Surrogate: 1-Chlorooctadecane 42.5-161

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Celecy D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 07/13/2022 Sampling Date: 07/12/2022

Reported: 07/19/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact Shalyn Rodriguez Project Number: 03C2012001 (32.34997, - 103.44293) Sample Received By:

Project Location: BTA - EDDY CO NM

Sample ID: SS 09 @ 0.5' (H223040-05)

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	07/16/2022	ND	2.04	102	2.00	10.4	
Toluene*	< 0.050	0.050	07/16/2022	ND	2.14	107	2.00	10.9	
Ethylbenzene*	< 0.050	0.050	07/16/2022	ND	2.18	109	2.00	10.9	
Total Xylenes*	<0.150	0.150	07/16/2022	ND	6.62	110	6.00	10.1	
Total BTEX	<0.300	0.300	07/16/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	117 %	69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	07/15/2022	ND	432	108	400	0.00	QM-07
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/15/2022	ND	184	91.9	200	20.0	
DRO >C10-C28*	643	10.0	07/15/2022	ND	182	90.9	200	18.4	
EXT DRO >C28-C36	200	10.0	07/15/2022	ND					
Surrogate: 1-Chlorooctane	76.8 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	117 %	6 42.5-16	1						

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S-06



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Notes and Definitions

The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

3-00	matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-04	The RPD for the BS/BSD was outside of historical limits.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

			St. d. St. St. St. St. d. St. St. St. St. St. St. St. St. St. St							
Company Name:	ENSOLUM CLC		BILL TO				ANALYSIS		REQUEST	1
Project Manager:	TALOMA MORRISSEY		P.O. #:							
Address: 3122	NATIONAL PARKS HIGHWAY		Company: BTA OIL							
City: CARLSBAD	State: MM	21p: 88330	Attn: BOB HALL							
Phone #: 337.	337.757.8307 Fax#:		Address: JOHS. Pell	Pecas St.		0				
Project #: 036 00 000	NOI 2001 Project Owner:	•	city: Midiand			50				
Project Name: Maddox Fed	igoldox Fed B #1 NFLL SITE	Ci.	State: TX Zip: 79701	105	_	4				
Project Location: 37.34997	-103.4		Phone #:			(46				
Sampler Name: (Conver Shore		Fax #:	L						
		MATRIX	PRESERV. SAMF	SAMPLING						
Lab I.D.	Sample I.D.	AB OR (C)OMF NTAINERS UNDWATER TEWATER	ER: /BASE: COOL ER:	- 1	EX (EPA 8)	H (EPAB)				
10000	SSOS @ 0.5'	# G W X S	A > IC	955	×	X	1	+		
<u>ي</u>	5506 60.51	۶ ۲ ×	46.61.FO ×	1000	×	×				
W	15.0 0 4055	6 1 ×	FF W. FO Y	1005 Y	x	X				
7	50060051	6 1 ×	× 07.12.83	1015	X	X				
Ŋ	5509@0.57	G 2 ×	X 07.12-23	1020	X	×				
	La X									
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Card affiliates or successors arising	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliation of successors are profit of the contraction of the	emedy for any claim arising whether based in contract or ford, shall be limited to the amount pac- wer shall be deemed waived unless made in writing and received by Casrdinal within 30 days after less, including without limitation, business interruptions, koss of use, or loss of profits incurred in remoter hy Cardinal enoughees of whether such claims in based unon any of the above stated re-	or tort, shalt be limited to the amount paid received by Cardinal within 30 days after oss of use, or loss of profits incurred by of is based upon any of the above stalled rea	by the client for the completion of the appletion of the applent, its subsidiaries, soons or otherwise.	plicable					
Relinquished By:	Saug.	Received By:		Verbal Result: All Results are emailed. Pl	t: U	☐ Yes ☐ No ailed. Please pr	☐ No Add'I Phone #: lease provide Email address:	hone #: il address:		
Relinquished By:	Date:	Received By:	(REMARKS:						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Sample Condition Cook Intack Yes Yes Yes	CHECKED BY: (Initials)	Turnaround Time: Thermometer ID #113 Correction Factor -0.6°C	ime:	Standard Rush		Bacteria (only) Cool Intact Yes Yes	Bacteria (only) Sample Condition Cool Infact Observed Temp. °C Ves Yes No Corrected Temp. °C	
		-	1	רטוופרווטוו בפרו	OI -0.9	Ç		I NO! NO		_



August 05, 2022

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 08/01/22 16:45.

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. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2022 Reported: 08/05/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 0302012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/01/2022

Sampling Type: Soil

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

Sample ID: STP - 1 (H223397-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44	
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/04/2022	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	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	71.8	% 43-149)						
Surrogate: 1-Chlorooctadecane	84.7	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2022 Reported: 08/05/2022 Sampling Date:
Sampling Type:

08/01/2022 Soil

Project Name:

08/05/2022 MADDOX FED B #1 WELL SITE

Sampling Condition:

Cool & Intact

Project Number:

0302012001

Sample Received By:

Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: STP - 2 (H223397-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44	
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/04/2022	ND	432	108	400	3.64	QR-03
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	32.5	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	81.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	100 9	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2022 Reported: 08/05/2022

MADDOX FED B #1 WELL SITE

Project Name: MADDOX FE Project Number: 0302012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/01/2022

Sampling Type: Soil

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

Sample ID: FS 01 (H223397-03)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44	
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/04/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	630	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	106	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	77.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	111	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/01/2022 Reported: 08/05/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 0302012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/01/2022

Sampling Type: Soil

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

Sample ID: FS 02 (H223397-04)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	1.96	98.2	2.00	3.44	
Toluene*	<0.050	0.050	08/05/2022	ND	2.06	103	2.00	1.01	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.02	101	2.00	2.00	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.34	106	6.00	2.70	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/04/2022	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	206	103	200	2.74	
DRO >C10-C28*	34.5	10.0	08/04/2022	ND	193	96.7	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	74.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	93.3	% 42.5-16	1						

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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

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State: Ty Zip: 9476 Attn: 300 Company: 874 011 March 18 5	ly) S	Bacteria (onl Cool Intact	-	Stand	Time:	urnaround		Sample Condition	7	served Temp. °C		vered By: (Circle
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August 05, 2022

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 08/02/22 16:55.

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. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

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

Project Location: BTA - LEA COUNTY

Sample ID: FS - 03 4' (H223438-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/04/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	215	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	203	101	200	5.25	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					
Surrogate: 1-Chlorooctane	101	% 43-149)						
Surrogate: 1-Chlorooctadecane	108	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Reported: 08/05/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 0302012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/02/2022

Sampling Type: Soil

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

Sample ID: FS - 04 4' (H223438-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.3	% 69.9-14	0						
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	08/04/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	215	107	200	2.57	
DRO >C10-C28*	12.1	10.0	08/04/2022	ND	203	101	200	5.25	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	99.6	% 43-149	1						
Surrogate: 1-Chlorooctadecane	107 9	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Reported: 08/05/2022

08/05/2022 MADDOX FED B #1 WELL SITE

mg/kg

Project Name: MADDOX FED B #
Project Number: 0302012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/02/2022

Sampling Type: Soil

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

Sample ID: FS - 05 4' (H223438-03)

BTEX 8021B

	9,	9	7	7: 5::.,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/04/2022	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	08/04/2022	ND	215	107	200	2.57	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	203	101	200	5.25	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	100	% 43-149)						
Surrogate: 1-Chlorooctadecane	107	% 42.5-16	1						

Analyzed By: JH/

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA - LEA COUNTY

mg/kg

Sample ID: FS - 06 4' (H223438-04)

BTEX 8021B

	9,	9	7	<u>,</u>					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 69.9-14	0						
Chloride, SM4500CI-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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/05/2022	ND	202	101	200	0.414	
DRO >C10-C28*	<10.0	10.0	08/05/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					
Surrogate: 1-Chlorooctane	94.8	% 43-149	1						
Surrogate: 1-Chlorooctadecane	107	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Reported: 08/05/2022

08/05/2022

Project Name: MADDOX FED B #1 WELL SITE
Project Number: 0302012001

ma/ka

Project Location: BTA - LEA COUNTY

Sampling Date: 08/02/2022

Sampling Type: Soil

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

Sample ID: FS - 07 4' (H223438-05)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2022	ND	432	108	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	08/05/2022	ND	202	101	200	0.414	
DRO >C10-C28*	15.0	10.0	08/05/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/05/2022	ND					
Surrogate: 1-Chlorooctane	105	% 43-149	1						
Surrogate: 1-Chlorooctadecane	123	% 42.5-16	1						

Applyzod By: 1H /

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Sample Received By: Tamara Oldaker Project Number: 0302012001

Project Location: BTA - LEA COUNTY

Sample ID: FS - 08 4' (H223438-06)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.9-14	0						
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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	10.3	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	91.6	% 43-149	1						
Surrogate: 1-Chlorooctadecane	99.4	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Reported: 08/05/2022

 08/02/2022
 Sampling Date:

 08/05/2022
 Sampling Type:

Project Name: MADDOX FED B #1 WELL SITE
Project Number: 0302012001

Project Location: BTA - LEA COUNTY

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

08/02/2022

Sample ID: FS - 09 4' (H223438-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.0	% 69.9-14	0						
Chloride, SM4500CI-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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	45.3	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	19.6	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	106	% 43-149)						
Surrogate: 1-Chlorooctadecane	116	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: FS - 10 4' (H223438-08)

RTFY 8021R

B1EX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	100	% 43-149	1						
Surrogate: 1-Chlorooctadecane	107	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA - LEA COUNTY

mg/kg

Sample ID: FS - 11 4' (H223438-09)

BTEX 8021B

	<u> </u>								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.9-14	0						
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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	<10.0	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	93.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	101	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

Applyzod By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: FS - 12 4' (H223438-10)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	ea By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/04/2022	ND	432	108	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	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	10.8	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	98.7	% 43-149	1						
Surrogate: 1-Chlorooctadecane	107	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Sample Received By: Project Number: 0302012001 Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS - 13 4' (H223438-11)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/04/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/04/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/04/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/04/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.1 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	48.7	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	11.2	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	100 %	6 43-149)						
Surrogate: 1-Chlorooctadecane	113 %	6 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Sampling Date: 08/02/2022

Reported: 08/05/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 0302012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS - 14 4' (H223438-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/05/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.9-14	0						
Chloride, SM4500CI-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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	10.5	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	92.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	103	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/02/2022 Reported:

Project Name: MADDOX FED B #1 WELL SITE

08/05/2022

Project Number: 0302012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/02/2022

Sampling Type: Soil

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

Sample ID: FS - 15 4' (H223438-13)

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/05/2022	ND	2.07	103	2.00	8.33	
Toluene*	<0.050	0.050	08/05/2022	ND	2.14	107	2.00	8.29	
Ethylbenzene*	<0.050	0.050	08/05/2022	ND	2.13	107	2.00	8.04	
Total Xylenes*	<0.150	0.150	08/05/2022	ND	6.50	108	6.00	8.25	
Total BTEX	<0.300	0.300	08/05/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.6	% 69.9-14	0						
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	08/04/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/04/2022	ND	202	101	200	0.414	
DRO >C10-C28*	27.7	10.0	08/04/2022	ND	215	107	200	5.61	
EXT DRO >C28-C36	<10.0	10.0	08/04/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 43-149	1						
Surrogate: 1-Chlorooctadecane	102 9	% 42.5-16	1						

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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 ANALYSIS REQUEST



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

(5/5) 555-000 (6/6)	Jan (010) 000 =110						
Company Name: FMSD 1 WM	LLC		BILL TO		A	ANALTOIS REGUES!	
Project Manager: † 9 Coma MC	Morrissey		1				
Address: 601 Maten Feld	St suite	400	Company: BTA 01			7	_
city: Midland	State: → X Zip:	79701	Attn: 80 b HAII				_
Phone #: 337 257 \$307) Fax #:		Address: 1045 8 6.005	45	>	- - - - - -	_
Project #: 03C 201200 1	Project Owner:		city: Nid(And		06	-	
Project Name: Madox Fed	8 #1 Well	site	State: TX Zip: 7		15	3	
	county		Phone #: 432 31		4		
0	Mackenzie		1	15			
FOR LAB USE ONLY	P.	MATRIX	PRESERV. SAMPLING	80	de.		
		NERS VATER					
Lab I.D. Sample I.D.	G)RAB OF	CONTAIL GROUND WASTEWA	OTHER: ACID/BAS CE / COO OTHER:	, ,	Chi		
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\$ \$5-10	4 ¹ C	×	× 812/22	1501 X	×		/
1 2 6		-		1502	\ X		
10 KS - 12 H. Company Continuity and client's early six emedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	client's exclusive remedy for any c	claim arising whether based in contract	or tort, shall be limited to the amount pai	d by the client for the			
PLEASE NOTE: Liability and Damages, Cardinals rationish and use the public publ	her cause whatsoever shall be deemed insequental damages, including without made of services hereunder by Cardinal	med waived unless made in writing and hout limitation, business interruptions, inal, regardless of whether such claim	waived unless made in writing and received by Cardinal within 30 days after I limitation, business interruptions, loss of use, or loss of profits incurred by cli regardless of whether such claim is based upon any of the above stated rea	er completion of the applicable client, its subsidiaries, sasons or otherwise.			
Relinquished By:	Date:		0000	Verbal Result: All Results are em	Verbal Result: Yes No Add: Phone #: All Results are emailed. Please provide Email address:	de Email address:	(4.
Jamher Millan	0	Tamora ck	late Sec				
Relinquished By:		Received By:		REMAKKS:			
	Time:					Racteria (only) Sample Condition	dition
Delivered By: (Circle One)	Observed Temp. °C /	Sample Condition Cool Intact	ion CHECKED BY: (Initials)		Rush	Cool Intact Observed Temp. °C	Temp. °C
Sampler - UPS - Bus - Other:	Corrected Temp. °C		0	Thermometer ID # Correction Factor -	#113 -0.6°C	No No Corrected Temp. °C	Temp. °C

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2476	575) 393-2476		
Company Name: CNSOIMM LLC	C	BILL TO	ANALYSIS REQUEST
_	155CA	P.O. #:	
address: 601 ManVenfuld S+	St Suite 400	Company: 3 TA 0)1	
	:↑× Zip:	Attn: BOD HALL	
257 8307	Fax #:	Address: W4 5 16005	54
	Project Owner:	city: MI DIANA	5
D D	Al NOI Sitc	State: TX Zip: 79 10 1	B
Project Location: LEA (0 UNTY		Phone #: 432-312-220	5
MAKINA	MACKENZIE	1	01
	MATRIX	PRESERV. SAMPLING	8
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER:	BTEX
12 Fr - 13	× × × × × × × × × × × × × × × × × × ×	X 8/1/152 1	1505 × × × ×
13 F5-15	4, C1 ×	× 811/12	1 50 0 × × × ×
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Relinquished By:	Time:		Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #: All Results are emailed. Please provide Email address:
Relinquished By:	Date: Received By:		
Delivered By: (Circle One) Obse		CHECKED BY: (Initials)	Rush Co
Sampler - UPS - Bus - Other: Corre	Corrected Temp. °C 3,4 AYes AYes	of.	Thermometer ID #113 Yes Yes Correction Factor -0.6°C . No Corrected Temp. °C



August 10, 2022

TACOMA MORRISSEY
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 WELL SITE

Enclosed are the results of analyses for samples received by the laboratory on 08/03/22 17:00.

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 TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 03C2012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 16 4' (H223481-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	2.78	
Toluene*	<0.050	0.050	08/08/2022	ND	2.13	106	2.00	2.25	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.15	108	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.53	109	6.00	4.34	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.2	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	214	107	200	3.65	QM-07
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	113 9	% 43-149)						
Surrogate: 1-Chlorooctadecane	128 9	% 42.5-16	1						

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08/03/2022

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date:

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 17 4' (H223481-02)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	2.78	
Toluene*	<0.050	0.050	08/08/2022	ND	2.13	106	2.00	2.25	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.15	108	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.53	109	6.00	4.34	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	49.6	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	19.7	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	80.0	% 43-149	1						
Surrogate: 1-Chlorooctadecane	82.2	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: FS 18 4' (H223481-03)

RTFY 8021R

	mg/	9	7,	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	2.78	
Toluene*	<0.050	0.050	08/08/2022	ND	2.13	106	2.00	2.25	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.15	108	2.00	3.78	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.53	109	6.00	4.34	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	16.9	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	90.4 9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	90.3	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012001 Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 19 4' (H223481-04)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	QM-07
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	94.5	% 43-149)						
Surrogate: 1-Chlorooctadecane	91.9	% 42.5-16	1						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 20 4' (H223481-05)

BTEX 8021B	mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	2290	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	601	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	99.3	% 43-149	1						
Surrogate: 1-Chlorooctadecane	140 9	42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

MADDOX FED B #1 WELL SITE

Project Name: MADDOX FE Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 21 4' (H223481-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	137	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	46.3	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	93.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	102	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 22 4' (H223481-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	44.2	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	14.8	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	91.8	% 43-149)						
Surrogate: 1-Chlorooctadecane	93.2	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported:

08/10/2022 Sampling Type:

Project Name: MADDOX FED B #1 WELL SITE Project Number: 03C2012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/03/2022 Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: FS 23 4' (H223481-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	51.8	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	13.3	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	89.2	% 43-149)						
Surrogate: 1-Chlorooctadecane	92.9	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 24 4' (H223481-09)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/08/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/08/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/08/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/08/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	125	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	24.4	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	114	% 43-149)						
Surrogate: 1-Chlorooctadecane	121	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 25 4' (H223481-10)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	210	105	200	1.16	
DRO >C10-C28*	234	10.0	08/09/2022	ND	214	107	200	3.65	
EXT DRO >C28-C36	51.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	88.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	97.5	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

08/10/2022

Project Name: MADDOX FED B #1 WELL SITE
Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 26 4' (H223481-11)

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	1.95	97.3	2.00	1.08	
Toluene*	<0.050	0.050	08/09/2022	ND	2.06	103	2.00	0.0598	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	0.254	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.25	104	6.00	0.596	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	148	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	22.9	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	84.4	% 43-149)						
Surrogate: 1-Chlorooctadecane	99.3	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C2012001 Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 27 4' (H223481-12)

BTEX 8021B	mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	196	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	32.5	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	83.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	99.2	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: FS 28 4' (H223481-13)

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	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.8	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	77.4	% 43-149	1						
Surrogate: 1-Chlorooctadecane	90.7	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

MADDOX FED B #1 WELL SITE

Project Name: MADDOX FE Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 29 4' (H223481-14)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.2	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	374	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	96.4	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	76.8	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.1	% 42.5-16	iI						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

08/10/2022 MADDOX FED B #1 WELL SITE

ma/ka

Project Name: MADDOX FED E Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 30 4' (H223481-15)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	82.1	% 43-149	1						
Surrogate: 1-Chlorooctadecane	97.4	% 42.5-16	1						

Analyzed By: 1H /

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

ma/ka

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 31 4' (H223481-16)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	153	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	17.9	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	89.1	% 43-149	1						
Surrogate: 1-Chlorooctadecane	108	% 42.5-16	1						

Analyzed By: 1H /

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Celey & Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Tamara Oldaker Project Number: 03C2012001 Sample Received By:

Project Location: BTA - LEA COUNTY

Sample ID: FS 32 4' (H223481-17)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	85.8	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	15.0	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	90.8	% 43-149)						
Surrogate: 1-Chlorooctadecane	107 9	% 42.5-16	1						

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

MADDOX FED B #1 WELL SITE

ma/ka

Project Name: MADDOX FEI
Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 33 4' (H223481-18)

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	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.7	% 69.9-14	0						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	75.2	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	86.7	% 43-149							
Surrogate: 1-Chlorooctadecane	108	% 42.5-16	1						

Analyzed By: 1H /

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Celey D. Keene



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: Sample Received By: 03C2012001 Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 34 4' (H223481-19)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.7	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/08/2022	ND	212	106	200	0.889	
DRO >C10-C28*	<10.0	10.0	08/08/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/08/2022	ND					
Surrogate: 1-Chlorooctane	82.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	94.9	% 42.5-16	1						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Analyzed By: JH/

Project Location: BTA - LEA COUNTY

mg/kg

Sample ID: FS 35 4' (H223481-20)

BTEX 8021B

	9,	9	7	= 7. 5,					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	81.0	% 43-149)						
Surrogate: 1-Chlorooctadecane	93.1	% 42.5-16	1						

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Celey D. Keine



Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Sample Received By: Project Number: 03C2012001 Tamara Oldaker

Project Location: BTA - LEA COUNTY

Sample ID: FS 36 (H223481-21)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.3	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	140	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	12.8	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	73.6	% 43-149)						
Surrogate: 1-Chlorooctadecane	103	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported:

08/10/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 03C2012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: FS 37 (H223481-22)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	< 0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	278	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	28.9	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	83.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	107 9	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 03C2012001 Sample Received By:

Project Location: BTA - LEA COUNTY

Sample ID: FS 38 (H223481-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	80.9	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	78.9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	103 9	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact Project Number: Tamara Oldaker 03C2012001 Sample Received By:

Project Location: BTA - LEA COUNTY

Sample ID: FS 39 (H223481-24)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.6	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	12.0	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	77.9	% 43-149	1						
Surrogate: 1-Chlorooctadecane	94.1	% 42.5-16	1						

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08/03/2022

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date:

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: FS 40 (H223481-25)

RTFY 8021R

alue QC RPD Qualifier 00 5.48 00 6.69 00 6.94 00 6.93
00 6.69 00 6.94
00 6.94
00 6.93
alue QC RPD Qualifier
00 3.77
alue QC RPD Qualifier
00 0.889
00 5.97

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date: 08/03/2022

Reported: 08/10/2022 Sampling Type: Soil

Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact
Project Number: 03C2012001 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: BTA - LEA COUNTY

ma/ka

Sample ID: SW 01 (H223481-26)

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	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.1 %	% 69.9-14	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	83.1 9	% 43-149							
Surrogate: 1-Chlorooctadecane	101 %	6 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported:

08/10/2022

MADDOX FED B #1 WELL SITE

03C2012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/03/2022

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By:

Tamara Oldaker

Sample ID: SW 02 (H223481-27)

Project Name:

Project Number:

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	08/09/2022	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	954	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	175	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	79.7	% 43-149)						
Surrogate: 1-Chlorooctadecane	122	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 03C2012001

Project Location: BTA - LEA COUNTY Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: SW 03 (H223481-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/09/2022	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	08/09/2022	ND	212	106	200	0.889	
DRO >C10-C28*	104	10.0	08/09/2022	ND	203	102	200	5.97	
EXT DRO >C28-C36	10.8	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	81.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	96.7	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

08/10/2022

ma/ka

Project Name: MADDOX FED B #1 WELL SITE

Project Number: 03C2012001
Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: SW 04 (H223481-29)

RTFY 8021R

BIEX 8021B	mg	/ kg	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.0	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/09/2022	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	08/09/2022	ND	191	95.7	200	1.17	
DRO >C10-C28*	<10.0	10.0	08/09/2022	ND	201	101	200	4.28	
EXT DRO >C28-C36	<10.0	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	96.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	107	% 42.5-16	1						

Analyzed By: 1H /

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Sample Received By:

08/03/2022

Tamara Oldaker

Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Sampling Date:

Reported: 08/10/2022 Sampling Type: Soil
Project Name: MADDOX FED B #1 WELL SITE Sampling Condition: Cool & Intact

Project Name: MADDOX FED B
Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sample ID: SW 05 (H223481-30)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	95.8	% 69.9-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/09/2022	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	08/09/2022	ND	191	95.7	200	1.17	
DRO >C10-C28*	607	10.0	08/09/2022	ND	201	101	200	4.28	
EXT DRO >C28-C36	127	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	95.3	% 43-149)						
Surrogate: 1-Chlorooctadecane	136 9	% 42.5-16	1						

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Analytical Results For:

ENSOLUM TACOMA MORRISSEY 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/03/2022 Reported: 08/10/2022

08/10/2022

Project Name: MADDOX FED B #1 WELL SITE
Project Number: 03C2012001

Project Location: BTA - LEA COUNTY

Sampling Date: 08/03/2022

Sampling Type: Soil

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

Sample ID: SW 06 (H223481-31)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/09/2022	ND	2.00	100	2.00	5.48	
Toluene*	<0.050	0.050	08/09/2022	ND	2.08	104	2.00	6.69	
Ethylbenzene*	<0.050	0.050	08/09/2022	ND	2.11	105	2.00	6.94	
Total Xylenes*	<0.150	0.150	08/09/2022	ND	6.38	106	6.00	6.93	
Total BTEX	<0.300	0.300	08/09/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.4	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/09/2022	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	08/09/2022	ND	220	110	200	8.77	
DRO >C10-C28*	67.8	10.0	08/09/2022	ND	226	113	200	5.17	
EXT DRO >C28-C36	14.3	10.0	08/09/2022	ND					
Surrogate: 1-Chlorooctane	84.1	% 43-149)						
Surrogate: 1-Chlorooctadecane	86.1	% 42.5-16	1						

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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 ANALYSIS REQUEST



Sampler - UPS - Bus - Other:	Delivered By: (Circle One)		Relinquished By:	Simultan May	Relinquished By:	affiliates or successors arising out of or related to the performance of	analyses. All claims including those for negligence and any outer cause mississions of the claims including those for negligence and any outer cause mississions of the claims including those for negligence and the claims including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries service.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the completion of the application of th	10 15.25	9 FS 24	8 1523	7 522	6 1521	,			2 65 14		F516	るもんです		FOR LAB USE ONLY	Sampler Name: Jamon Ma	Project Location: Lea (=	Project #: 0302012001	(387)	city: 0, Midland	Address: 601 N Marin	Project Manayer: Tocomo	Company Name: Ensolum	(575) 393-23
Corrected Temp. °C /	Observed Temp. °C	Time:	Date:	Moder Time:700	n	performance of services hereunder by Can	ental or consequental damages, including w	ages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paud by the claims and acceived by Cardinal within 30 days after completion of the a	4)	, h								H	11	100	Sample I.D.	MD.	ha Markeren	Courty	Fed 8 #1 well	Project Owner:	830} Fax #:	State: Tx Z	John	Mary: SSEY	m, LLC	575) 393-2326 FAX (575) 393-2476
13 Yes Ayes	/ G Sample Condition		Received By:	Manara Ne	Vecelven Div.	services hereunder by Cardinal, regardless of whether such claim is based upon any or the above stated in	thout limitation, business interruptions, loss	claim arising whether based in contract or to med waived unless made in writing and rec	C - X	-		3 7	\ \ \	< >	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ 	×	C 1 X	CIX	# C			L	Ph	well site st		Ad	Zip: 3670/ Attn:	400	P.C		
To.	CHECKED BY: (Initials)		(Marse		ased upon any of the above stated reason	of use, or loss of profits incurred by clie	ort, shall be limited to the amount paid of seived by Cardinal within 30 days after o	X 8/3/22	_		22/2/2	0/2/10			7	8/3/22	X 8/3/22	72/E/9 X	IC OT	CID/BASE: E / COOL THER :		Fax #:	Phone #: (452) 312 - 2203	State: X Zip: 1970	city: Midend	Address: 104 3 /2005	LOOK HO	-	P.O. #:	BILL TO	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



absnm.com 4	ne@cardinall	eley.kee	inges to c	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	verbal changes.	not accept	† Cardinal car	77/01/10 C:C N C	FORW-00
□ Nc □ No Corrected Temp. °C	6°C	Thermometer ID #113 Correction Factor -0.6°C	Thermome	76	☐ Yes☐ Yes☐ No ☐ No	13	Corrected Temp. °C/	Bus - Other: Co	Sampler - UPS -
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1			client, its subsidiant	darnages, including without limitation, business interruptions, loss of use, or loss of profits incurred by o ces hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated re	ess interruptions, loss of use hether such claim is based u	hout limitation, busing inal, regardless of who	equental damages, including with a of services hereunder by Card	envice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries envice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries envices and the consequence of services and the consequence of services are consequently and the consequently are consequently as a consequently are consequently and the consequently are consequently as a consequently as a consequently are consequently as a consequently are consequently as a consequently as a consequently as a consequently are consequently as a consequently as a consequently as a consequently are consequently as a consequently as	ervice. In no event shall C
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					P.O. #:		Morrissey	Taeoma	roject Manager:
ANALYSIS REQUEST				BILL TC			10		ompany Name:
							FAX (575) 393-2476	(575) 393-2326 FA	

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326	(575) 393-2326 FAX (575) 393-2476			
Company Name: Ens / 12	200	BILL TO		AMALYSIS REQUEST
roject Manager: Taloma	Marrissey	P.O. #:		
Address: 601 N Marienfeld	EN St. Site 400	F	0.1	
city: Midland	State: Tx Zip: 347	01 Attn: Sob Hall		
Phone #: (337)257-8309	7 Fax #:	Address: 104 S Pecos	2005 ST	
036	Project Owner:	city: Midland		
ame: Lee		State: Tx Zip: 7	101pt	
on: Mad	of 13 # well site	Phone #: (432)	312-2203	
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the places. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the places of the plac	d client's exclusive remedy for any claim arising whethe ther cause whatsoever shall be deemed waived unless represented damages including without limitation, businesses	y based in contract or tort, shall be limited to the amount made in writing and received by Cardinal within 30 days ness interruptions, loss of use, or loss of profits incurred	paid by the client for the after completion of the applicable by client, its subsidiaries,	
affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based	ance of services hereunder by Cardinal, regardless of v	whether such claim is based upon any of the above stated reas	Verbal Result:	Add'l Phone #:
Relinquished By: SMCULA	Date: 8/3/22 Received by:	mara Selakur	are emailed. Please prov	e Email address:
Relinquished By:	Date: Received By:	V:	REMARKS:	
Delivered By: (Circle One)	0,1) S	Turnaround Time: Standard Thermometer ID #113 Thermometer ID #166	Bacteria (only) sample Condition Cool Intact Observed Temp. °C Yes
Sampler - UPS - Bus - Other:	Corrected Temp. °C / 3	in res	Correction Factor -0.6°C	□ Nc □ No Corrected Temp. °C ·

Page 36 of 37

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2	(575) 393-2326 FAX (575) 393-2476			
ompany Name: Enso	Ensolum, LLC	BILL TO	ANALYSIS REQUEST	-
roject Manager: Taeoma	Morrissel	P.O. #:		
5	held st 81/2 400	Company: 3NA O:		
idland	Tx Zip: 7970 /	Attn: Bob Hall		
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FOR LAB USE ONLY	AP. MATRIX	PRESERV. SAMPLING	801	
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EASE NOTE: Liability and Damages, Cardinal's	LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the	or tort, shall be limited to the amount paid received by Cardinal within 30 days after	by the client for the completion of the applicable	
ervice. In no event shall Cardinal be liable for incidental or conse ffiliates or successors arising out of or related to the performance	ervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss or profits incurred by Cardinal, regardless of successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	oss of use, or loss of proms incurred by classed upon any of the above stated reals based upon any of the above stated reals.	one, is substanties, Otherwise. Verhal Result: Yes No Add'! Phone #:	
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Relinquished By:	Date: Received By:	ward of the	REMARKS:	
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FORM-000 N 3.3 0//10/22	† Cardinal cannot accept verbal char	nges. Please email char	Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com	



September 02, 2022

HADLIE GREEN
ENSOLUM
3122 NATIONAL PARKS HWY
CARLSBAD, NM 88220

RE: MADDOX FED B #1 // NAPP2211065721

Enclosed are the results of analyses for samples received by the laboratory on 08/30/22 13:36.

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. Keene

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

 Received:
 08/30/2022
 Sampling Date:
 08/29/2022

 Reported:
 09/02/2022
 Sampling Type:
 Soil

Project Name: MADDOX FED B #1 // NAPP2211065721 Sampling Condition: Cool & Intact

Project Number: 03C2012001 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: BTA-EDDY CO. 32.34997,-103.44293

mg/kg

Sample ID: FS 20 A @ 5' (H223976-01)

BTEX 8021B

DILX 6021D	ilig	/ Ng	Allalyze	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
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	08/31/2022	ND	400	100	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	08/31/2022	ND	201	101	200	0.945	
DRO >C10-C28*	<10.0	10.0	08/31/2022	ND	217	108	200	2.18	
EXT DRO >C28-C36	<10.0	10.0	08/31/2022	ND					
Surrogate: 1-Chlorooctane	92.1	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	95.9	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/30/2022 Reported:

09/02/2022 MADDOX FED B #1 // NAPP2211065721

Project Name: Project Number: 03C2012001

Project Location: BTA-EDDY CO. 32.34997,-103.44293 Sampling Date: 08/29/2022

Sampling Type: Soil

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

Sample ID: SW07 @ 0-4' (H223976-02)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500CI-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	08/31/2022	ND	400	100	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	86.0	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	90.1	% 46.3-17	8						

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Celey D. Keene



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/30/2022 Reported: 09/02/2022

MADDOX FED B #1 // NAPP2211065721

Project Number: 03C2012001

Project Location: BTA-EDDY CO. 32.34997,-103.44293

Sampling Date: 08/29/2022

Sampling Type: Soil

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

Sample ID: SW08 @ 0-4' (H223976-03)

Project Name:

BTEX 8021B	mg	/kg	Analyze	ed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2022	ND	400	100	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	87.9	% 46.3-17	78						

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Celey D. Keine



Analytical Results For:

ENSOLUM HADLIE GREEN 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:

Received: 08/30/2022 Reported:

09/02/2022 Sampling Type:

Project Name: MADDOX FED B #1 // NAPP2211065721 Project Number: 03C2012001

Project Location: BTA-EDDY CO. 32.34997,-103.44293 Sampling Date: 08/29/2022 Soil

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

Sample ID: SW09 @ 0-4' (H223976-04)

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	09/01/2022	ND	2.15	108	2.00	3.87	
Toluene*	<0.050	0.050	09/01/2022	ND	2.09	104	2.00	3.57	
Ethylbenzene*	<0.050	0.050	09/01/2022	ND	2.04	102	2.00	3.02	
Total Xylenes*	<0.150	0.150	09/01/2022	ND	6.30	105	6.00	2.41	
Total BTEX	<0.300	0.300	09/01/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	69.9-14	0						
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	08/31/2022	ND	400	100	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	09/01/2022	ND	211	106	200	2.06	
DRO >C10-C28*	<10.0	10.0	09/01/2022	ND	213	107	200	0.500	
EXT DRO >C28-C36	<10.0	10.0	09/01/2022	ND					
Surrogate: 1-Chlorooctane	86.9	% 45.3-16	1						
Surrogate: 1-Chlorooctadecane	86.5	% 46.3-17	8						

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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

Celey D. Keine

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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

Correction Factor "0.5°C" () . 0°c No No Corrected Temp. °C	Correction Factor	5.5° No No	corrected Temp. °C 5.5°	Sampler - UPS - Bus - Other:
Standard M B	CHECKED BY: Turnaround Time: (Initials)		Observed Temp. °C/1/°	Delivered By: (Circle One)
			Time:	
REMARKS:	REMARKS:	Received By:	Date:	Relinquished By:
tmorrisscy@ensolum.com bhall@btacil.com	MA LA THOM'S SCI	Sector Sector	Time 22/	To Second
t: □ Yes □ No Add'I Phone #:		Date: 2 12000 Received By:	ance of	Relinquished By:
opinciatore	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in witing and received by Cardinal within 30 days after completion of the oppurative service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business made in witing and received by Cardinal within 30 days after completion of the oppurative service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business method is not only of the oppuration of the oppurative service.	e deemed waived unless made in writing and rece ng without limitation, business interruptions, loss of	gence and any other cause whatsoever shall but incidental or consequental damages, including	analyses. All claims including those for neglig service. In no event shall Cardinal be liable for
	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	any claim arising whether based in contract or tort	dinal's liability and client's exclusive remedy for	PLEASE NOTE: Liability and Damages. Card
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des		S ER R		FOR LAB USE ONLY
	PRESERV	MATRIX		٦
	Fax #:		·	Sampler Name: Meredith
	Phone #: 432-312 · 2203		4997, -103.44293	Project Location: 32.34997
	State: TX Zip: 7970	Str	ox Fed B #1	Project Name: Maddox Fed
	city: Midland		200 Project Owner:	Project #: 03C201200
	Address: 104 S Pews St	Ad	. 8895 Fax #:	Phone #: 432-557-8895
	Attn: Bob Hall	88220	State: NM Zip:	city: Carlsbad
	Company: STA Oil		nal Pa	Address: 3122 Na
	P.O. #:	P.(lie Green	Project Manager: Hadie
ANALTOIS REQUEST	BILL 10		im Ill	Company Name: ENSOILMM



APPENDIX D

NMOCD Notifications

Searches

Operator Data

Districts:

Counties:

Submissions

Hobbs

Lea

Administration

OCD Permitting

Home Op

Operator:

Data A

Action Search Results

Action Status Item Details

[NOTIFY] Notification Of Release (NOR) Application

Submission Information

Submission ID: 100395

[260297] BTA OIL PRODUCERS, LLC

Description: BTA OIL PRODUCERS, LLC [260297]

Maddox Fed B #1 Well Site

nAPP2211065721 {Discovery: 04/20/2022, Active, , Federal}

 Status:
 APPROVED

 Status Date:
 04/20/2022

References (2): 30-025-27941, nAPP2211065721

Forms

This application type does not have attachments.

Questions

Location of Release Source

Please answer all of the questions in this group.

Site Name Maddox Fed B #1 Well Site

Date Release Discovered 04/20/2022
Surface Owner Federal

Incident Details

Please answer all of the questions in this group.

Incident Type Oil Release

Did this release result in a fire or is the result of a fire No

Has this release reached or does it have a reasonable probability of reaching a

watercourse

Has this release endangered or does it have a reasonable probability of endangering

public health

Has this release substantially damaged or will it substantially damage property or the No

nvironment

Is this release of a volume that is or may with reasonable probability be detrimental No

to fresh water

Nature and Volume of Release

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

Crude Oil Released (bbls) Details Cause: Blow Out | Well | Crude Oil | Released: 67 BBL | Recovered: 60 BBL | Lost: 7 BBL]

No

No

Produced Water Released (bbls) Details

Not answered.

Is the concentration of dissolved chloride in the produced water >10,000 mg/l

Not answered.

BOB HALL (ENVIRONMENTAL MANAGER FOR BTA OIL PRODUCERS, LLC)

Searches **Operator Data** Submissions Administration

Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

around the BOP opening and into the cellar and onto the surrounding concrete pad and the caliche. After sque recovery, impacted caliche was scraped and stockpiled for disposal.

No, according to supplied volumes this does not appear to be a "gas only" report.

· Unauthorized release of a volume, excluding gases, of 25 barrels or more

Nature and Volume of Release (continued)

Is this a gas only submission (i.e. only significant Mcf values reported)

Was this a major release as defined by 19.15.29.7(A) NMAC

Reasons why this would be considered a submission for a notification of a major

If YES, was immediate notice given to the OCD, by whom

If YES, was immediate notice given to the OCD, to whom

If YES, was immediate notice given to the OCD, when

If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)

Bob Hall

NMOCD via Permitting Website

04/20/2022

Yes, major release.

By filing the present NOR on Permitting Website

With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped True The impacted area has been secured to protect human health and the environment True

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices

All free liquids and recoverable materials have been removed and managed

appropriately

If all the actions described above have not been undertaken, explain why

Not answered.

True

True

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If 1 been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

Acknowledgments

- I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
- I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to
- I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
- 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.
- I acknowledge the fact that 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.
- 📝 I acknowledge the fact that, 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

Comments

No comments found for this submission.

Conditions

BOB HALL (ENVIRONMENTAL MANAGER FOR BTA OIL PRODUCERS, LLC) SIGN OUT HELP

EMNRD Home OCD Main Page OCD Rules Help

	Searches	Operator Data	Submissions	Administration
No reasons found for this submission.				
Fees				
No fees found for this submission.				
Go Back				
New Mexico Energy, Minerals and Natural 1220 South St. Francis Drive Santa Fe, NM 8				

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

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

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

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

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

QUESTIONS

Action 100395

QUESTIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	100395
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Location of Release Source					
Please answer all of the questions in this group.					
Site Name	Maddox Fed B #1 Well Site				
Date Release Discovered	04/20/2022				
Surface Owner	Federal				

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

Nature and Volume of Release Material(s) released, please answer all that apply below. Any calculations or specific justifications	for the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Blow Out Well Crude Oil Released: 67 BBL Recovered: 60 BBL Lost: 7 BBL]
Produced Water Released (bbls) Details	Not answered.
Is the concentration of dissolved chloride in the produced water >10,000 mg/l	Not answered.
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Cause: Blow Out Well Natural Gas Vented Released: 5 Mcf Recovered: 0 Mcf Lost: 5 Mcf
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	During P&A first circulation of well, the crew failed to close BOP correctly around the tubing. Fluid flowed out of the well from around the BOP opening and into the cellar and onto the surrounding concrete pad and the caliche. After squeegeeing oil for recovery, impacted caliche was scraped and stockpiled for disposal.

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 2

Action 100395

QUESTIONS (continued)

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	100395
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

QUESTIONS

Nature and Volume of Release (continued)				
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.			
Was this a major release as defined by 19.15.29.7(A) NMAC	Yes, major release.			
Reasons why this would be considered a submission for a notification of a major release	Unauthorized release of a volume, excluding gases, of 25 barrels or more			
If YES, was immediate notice given to the OCD, by whom	Bob Hall			
If YES, was immediate notice given to the OCD, to whom	NMOCD via Permitting Website			
If YES, was immediate notice given to the OCD, when	04/20/2022			
If YES, was immediate notice given to the OCD, by what means (phone, email, etc.)	By filing the present NOR on Permitting Website			
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.				

Initial Response				
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.				
The source of the release has been stopped	True			
The impacted area has been secured to protect human health and the environment	True			
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True			
All free liquids and recoverable materials have been removed and managed appropriately	True			
If all the actions described above have not been undertaken, explain why	Not answered.			

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

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

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

ACKNOWLEDGMENTS

Action 100395

ACKNOWLEDGMENTS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	100395
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

ACKNOWLEDGMENTS

✓	I acknowledge that I am authorized to submit notification of a releases on behalf of my operator.
V	I acknowledge that upon submitting this application, I will be creating a new incident file (assigned to my operator) to track the notification(s) and corrective action(s) for a release, pursuant to NMAC 19.15.29.
V	I acknowledge that creating a new incident file will require my operator to file subsequent submission(s) of form "C-141, Application for administrative approval of a release notification and corrective action", pursuant to NMAC 19.15.29.
V	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.
V	I acknowledge the fact that 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.
V	I acknowledge the fact that, 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.

District III

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

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 100395

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	100395
	Action Type:
	[NOTIFY] Notification Of Release (NOR)

CONDITIONS

Created	d Condition	Condition
Ву		Date
bob hall	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141.	4/20/2022

Attachments:

From: **Tacoma Morrissey** To: ocd.enviro@state.nm.us Cc: Bob Hall; Hadlie Green

Subject: BTA - Sampling Notification- Maddox Fed B #1 Well Site / NAPP2211065721

Date: Thursday, July 28, 2022 1:55:00 PM image001.png

image002.png image003.png image004.png

All,

On behalf of BTA Oil Producers, we respectfully submit notification of sampling to be conducted at the subject site. Sampling will occur between August 1, 2022 and August 3, 2022.

• Maddox Fed B #1 Well Site / NAPP2211065721

Thank you,



From: Nobui, Jennifer, EMNRD

To: <u>Hadlie Green</u>

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

Subject: FW: [EXTERNAL] BTA - Sampling Notification - Week of August 29th - September 2nd

Date: Monday, August 29, 2022 10:33:28 AM

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

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hadlie

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

Thanks,

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Sent: Monday, August 29, 2022 8:06 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>

Subject: Fw: [EXTERNAL] BTA - Sampling Notification - Week of August 29th - September 2nd

From: Hadlie Green < hgreen@ensolum.com>

Sent: Friday, August 26, 2022 1:34 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us >

Cc: Tacoma Morrissey < tmorrissey@ensolum.com >; bhall@btaoil.com < bhall@btaoil.com > **Subject:** [EXTERNAL] BTA - Sampling Notification - Week of August 29th - September 2nd

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of August 29, 2022.

- Maddox Fed B #1 Well Site / Incident Number NAPP2211065721
 - GPS: 32.34997, -103.44293
- Rojo B Poly Line Rupture / Incident Number nAPP2216138632
 - GPS: 32.12237, -103.56097

Thank you,



Hadlie Green
Staff Geologist
432-557-8895
hgreen@ensolum.com
Ensolum, LLC

From: Nobui, Jennifer, EMNRD
To: Tacoma Morrissey

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

Subject: FW: [EXTERNAL] BTA-Extension Request - Maddox Fed B #1 Well Site (Incident Number NAPP2211065721)

Date: Monday, July 18, 2022 3:47:30 PM

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

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Tacoma

Your request for an extension to **October 17th, 2022** is approved. Please include this e-mail correspondence in the remediation and/or closure report.

Thanks

Jennifer Nobui

From: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Sent: Monday, July 18, 2022 2:43 PM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@state.nm.us>; Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>

Subject: Fw: [EXTERNAL] BTA-Extension Request - Maddox Fed B #1 Well Site (Incident Number NAPP2211065721)

From: Tacoma Morrissey < <u>tmorrissey@ensolum.com</u>>

Sent: Monday, July 18, 2022 1:32 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Cc: Bob Hall < <u>BHall@btaoil.com</u>>; Hadlie Green < <u>hgreen@ensolum.com</u>>

Subject: [EXTERNAL] BTA-Extension Request - Maddox Fed B #1 Well Site (Incident Number

NAPP2211065721)

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

All,

BTA is requesting an extension for the current deadline of July 19, 2022 for submitting a remediation work plan or closure required in 19.15.29.12.B.(1) NMAC at the Maddox Fed B #1 Well Site (Incident Number NAPP2211065721). The release occurred on April 20, 2022. Initial assessment of the release has been completed and operations at the facility delayed remediation activities.

Operations have been completed and remediation is ongoing. In order to complete the remediation activities and submit a remediation work plan or closure request, BTA is requesting a 90-day extension until October 17, 2022.

Thank you,



Tacoma Morrissey Senior Geologist 337-257-8307 Ensolum, LLC in f



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	nAPP2211065721
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2211065721
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.05980 Longitude: -103.60435

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Maddox Federal B #1		Site Type: Well Site				
Date Release	Discovered	: 4/20/2022			API# (if applicable) Nearest well: 30-025-27941	
Unit Letter	Section	Township	Range		County	
F	35	225	34E	Lea		
Surface Owner: State Federal Tribal Private (Name:)						
Nature and Valume of Dalage						

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below) Crude Oil **67 BBL 60 BBL** Volume Released (bbls) Volume Recovered (bbls) Produced Water Volume Released (bbls) Volume Recovered (bbls) Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Volume Released (bbls) Condensate Volume Recovered (bbls) Natural Gas Volume Recovered (Mcf) O MCF Volume Released (Mcf) 5 MCF Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release During P&A first circulation of well, the crew failed to close BOP correctly around the tubing. Fluid flowed out of the well from around the BOP opening and into the cellar and onto the surrounding concrete pad and the caliche. After squeegeeing oil for recovery, impacted caliche was scraped and stockpiled for disposal.

Received by OCD: 9/20/2022 12529:20 PM State of New Mexico
Page 2 Oil Conservation Division

Page	Hd9eof	125

Incident ID	nAPP2211065721
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	Yes – Release greater than 25 BBL.
⊠ Yes □ No	
Yes, by filing a Notice of	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Of Release (NOR) on the NMOCD Permitting website on 4/20/2022. The Incident ID listed ter the NOR was acknowledged by the NMOCD.
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
	s been secured to protect human health and the environment.
	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have not been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Bob Hal	Title: Environmental Manager
Signature:/s/ Bob	Hall Date: 5/5/2022
email: bhall@btaoil.co	om Telephone: 432-682-3753
OCD Only	
Received by: localyn l	Harimon Date: 05/06/2022
Table of Docery	<u> </u>

Location Maddox Federal B #1 Area on Caliche Pad

API # 30-025-27941 **Spill Date** 4/20/2022

Spill Dimensions

ENTER - Length of Spill90 feetENTER - Width of Spill90 feetENTER - Saturation Depth of Spill2 inches

ENTER - Porosity Factor 0.03 decimal

Oil Cut - Well Test / Vessel Throughput or Contents

 Oil
 99.999

 Water
 0.001

 Calculated Oil Cut
 0.99999

Volume Recovered in Truck / Containment

ENTER - Recovered Oil 60 BBL
ENTER - Recovered Water BBL

Calculated Values calculated

Release of Oil in Soil - Unrecovered 7 BBL
Release of Water in Soil - Unrecovered 0 BBL
Unrecovered Total Release 7 BBL

Calculated Values calculated

Total Release of Oil 67 BBL

Total Release of Water 0 BBL

Total Release 67 BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity 5.615 ft³ / BBL X Oil Cut (or Water Cut)

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 104768

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	104768
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created E	y Condition	Condition Date
jharimo	n None	5/6/2022

te of New Mexico

Incident ID	nAPP2211065721
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>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?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data 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 	ls.			
Photographs including date and GIS information				

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.

Laboratory data including chain of custody

I hereby cer regulations public healt failed to add addition, Of and/or regulations.

Printed National Signature:

email: _bl

State of New Mexico Oil Conservation Division

Facility ID Application ID d understand that pursuant to OCD rules and rective actions for releases which may endanger operator of liability should their operations have water, human health or the environment. In ance with any other federal, state, or local laws	Incident ID	nAPP2211065721
Application ID d understand that pursuant to OCD rules and rective actions for releases which may endanger operator of liability should their operations have the water, human health or the environment. In ance with any other federal, state, or local laws	District RP	
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er	rective actions for rel operator of liability sh e water, human health	eases which may endanger nould their operations have n or the environment. In

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:Bob Hall	Title: _Environmental Manager
Signature: Zolfall	Date:09/19/2022
email: _bhall@btaoil.com	Telephone:432-682-3753
OCD Only Received by: Jocelyn Harimon	Date:09-20-2022

₹Form C-141 eleased to Imaging:

State of New Mexico Oil Conservation Division

		b
Incident ID	nAPP2211065721	-
District RP		200
Facility ID		į
Application ID		

Closure

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

A scaled site and sampling diagram as described in 19.	.15.29.11 NMAC
Photographs of the remediated site prior to backfill or must be notified 2 days prior to liner inspection)	photos of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropria	ate ODC District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file may endanger public health or the environment. The accept should their operations have failed to adequately investigate human health or the environment. In addition, OCD accepta compliance with any other federal, state, or local laws and/o restore, reclaim, and re-vegetate the impacted surface area to	
OCD Only	
Received by: Jocelyn Harimon	Date:
	le party of liability should their operations have failed to adequately investigate and surface water, human health, or the environment nor does not relieve the responsible ws and/or regulations.
Closure Approved by:	Date: 09/22/2022
Printed Name: Jennifer Nobui	Title: Environmental Specialist A

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CONDITIONS

Action 144926

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos Midland, TX 79701	Action Number: 144926
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Closure Report Approved.	9/22/2022