

July 17, 2023

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

Re: Closure Request Jalmat Field Yates Sand Unit #203 Flowline Incident Number NAPP2311056555 Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Permian, LLC (Maverick), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Jalmat Field Yates Sand Unit #203 Flowline (Site). The purpose of the Site assessment, excavation, and soil sampling activities was to address impacted soil resulting from a release of crude oil at the Site. Based on the excavation activities and laboratory analytical results from the soil sampling events, Maverick is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number NAPP2311056555.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit J, Section 14, Township 22 South, Range 35 East, in Lea County, New Mexico (32.391558°, -103.3357524°) and is associated with oil and gas exploration and production operations on private land.

On April 9, 2023, a pin hole developed in a flowline and resulted in the release of approximately 8 barrels (bbls) of crude oil into the surrounding pasture. No released fluids were recovered; however, a backhoe was immediately dispatched to the Site to remove saturated soil. Maverick reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on April 18, 2023. The release was assigned Incident Number NAPP2311056555.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of State Engineer (NMOSE) well CP-00753, located approximately 2,370 feet northeast of the Site. The groundwater well has a reported depth to

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groundwater of 185 feet bgs and a total depth of 215 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 400 feet southeast 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 I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

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

SITE ASSESSMENT AND EXCAVATION ACTIVITIES

Between June 27, 2023 and June 30, 2023, Ensolum personnel were at the Site to oversee excavation activities based information provided on the Form C-141 and visual observations. To direct excavation activities, soil was field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride utilizing Hach[®] chloride QuanTab[®] test strips. Excavation activities were performed via backhoe, track hoe, and transport vehicles. The excavation was completed to depths ranging from 6 feet to 7 feet bgs. Photographic documentation of the excavation activities is included in Appendix B.

Following removal of impacted soil, 5-point composite soil samples were collected every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS10 were collected from the floor of the excavation at depths ranging from 6 feet to 7 feet bgs. Composite soil samples SW01 through SW06 were collected from the sidewalls of the excavation at depths ranging from the ground surface to 7 feet bgs. Additionally, assessment soil samples SS01 through SS04 were collected from a depth of 0.5 feet bgs outside the excavation extent to confirm the lateral extent of the release.

The 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 under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0. The excavation extent and excavation soil sample locations were mapped utilizing a handheld GPS unit and are depicted on Figure 2.

Maverick Permian, LLC Closure Request Jalmat Field Yates Sand Unit #203 Flowline

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Laboratory analytical results for assessment samples SS01 through SS04 indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria and defined the lateral extent of the release. Laboratory analytical results for excavation samples FS01 through FS05, FS07 through FS09, and SW01 through SW06 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Laboratory analytical results for excavation floor samples FS06 and FS10 indicated chloride concentrations exceeded the reclamation requirement. Additional soil was removed in the vicinity of floor samples FS06 and FS10 and subsequent floor samples FS06A and FS10A were compliant with the reclamation requirements. The excavation extent and excavation soil sample locations are depicted on Figure 2. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

The excavation measured approximately 2,000 square feet in areal extent. A total of approximately 600 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Disposal Facility in Hobbs, New Mexico. After completion of confirmation sampling, the excavation was secured with fencing.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the April 9, 2023, release of crude oil. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirements. Based on the soil sample analytical results, no further remediation was required. Maverick backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at this Site. Depth to groundwater has been estimated to be greater than 100 feet bgs and no sensitive receptors were identified near the release extent. Maverick believes the remedial actions completed are protective of human health, the environment, and groundwater and respectfully requests closure for Incident Number NAPP2311056555. NMOCD notifications are included in Appendix D and the Final C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or kjennings@ensolum.com.

Sincerely, Ensolum, LLC

Kuno allan alla

Julianna Falcomata Staff Geologist

mé Cole

Aimee Cole Senior Managing Scientist

cc: Bryce Wagoner, Maverick Permian, LLC

Maverick Permian, LLC Closure Request Jalmat Field Yates Sand Unit #203 Flowline

Appendices:

Figure 1	Site Receptor Map
Figure 2	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141

ENSOLUM

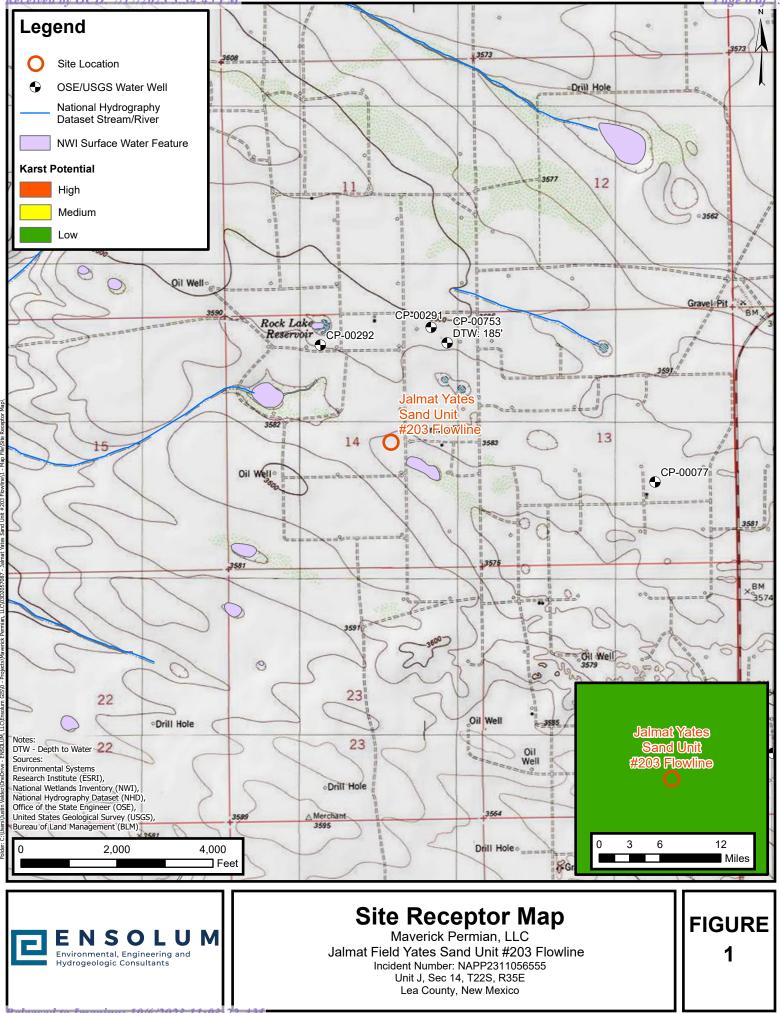
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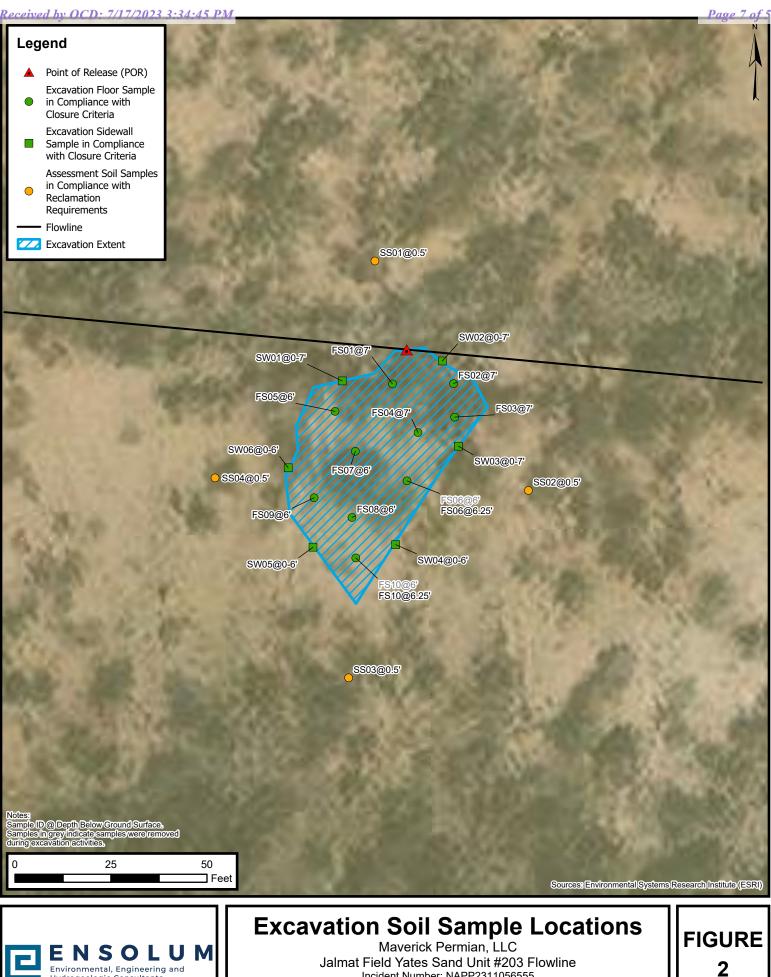
FIGURES

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Incident Number: NAPP2311056555

Unit J, Sec 14, T22S, R35E, Lea County, New Mexico

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Hydrogeologic Consultants



TABLES

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				Jalmat Field Ma	TABLE I LE ANALYTICA Yates Sand Unit verick Permian, I County, New Me	#203 Flowline LLC						
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)		
NMOCD Table I	Closure Criteria	(NMAC 19.15.29)	10	50	NE	NE	NE	NE	100	600		
Assessment Soil Samples												
SS01	6/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0		
SS02	6/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
SS03	6/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0		
SS04	6/27/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	<16.0		
				Excavati	on Sidewall Soil	Samples						
SW01	6/27/2023	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0		
SW02	6/27/2023	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304		
SW03	6/27/2023	0-7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176		
SW04	6/27/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176		
SW05	6/27/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0		
SW06	6/27/2023	0-6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112		
				Excava	ation Floor Soil S	amples						
FS01	6/28/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0		
FS02	6/28/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336		
FS03	6/28/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128		
FS04	6/28/2023	7	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0		
FS05	6/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0		
FS06	6/28/2023	6	<0.050	< 0.300	<10.0	<10.0	<10.0	<10.0	<10.0	736		
FS06A	6/30/2023	6.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176		
FS07	6/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0		
FS08	6/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	576		
FS09	6/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0		
FS10	6/28/2023	6	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640		
FS10A	6/30/2023	6.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224		

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

Grey text represents samples that have been excavated Released to Imaging: 10/6/2023 11:03:22 AM



APPENDIX A

Referenced Well Records

STATE	ENGINEER	OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

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ll was drilled	l under Permit	No. CP-	753		and is locate	d in the:			
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						ft. Total de		246	
							-	400	
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Depth in Feet

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Section 7. REMARKS AND ADDITIONAL INFORMATION

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

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STATE ENGINEER OFFICE ROSWELL, NEW MEXICO

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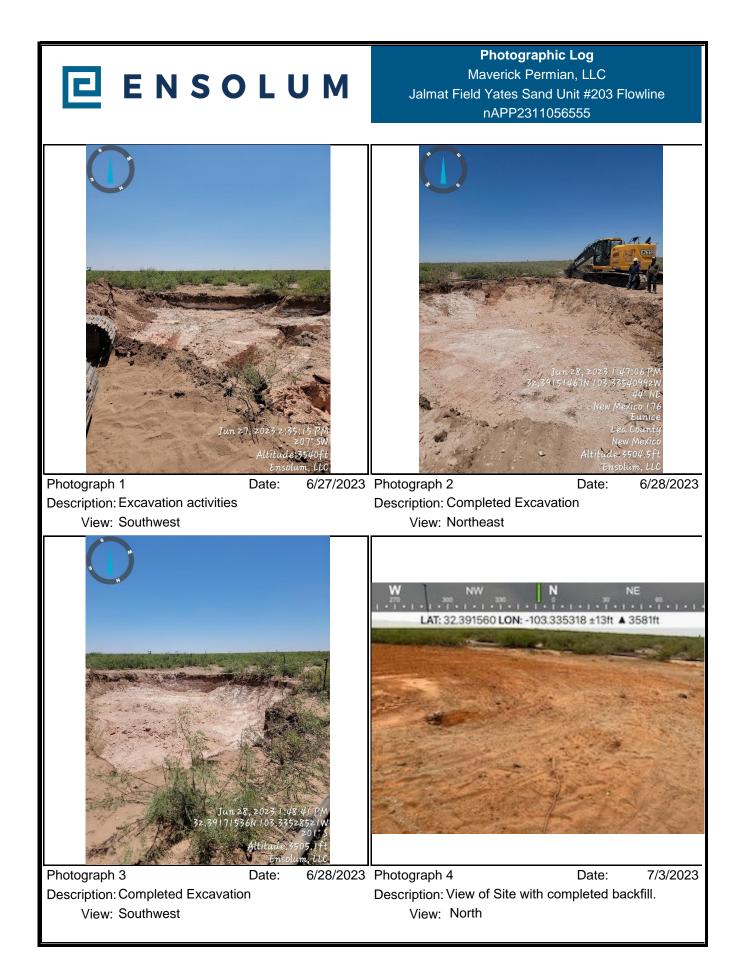
Section 6. LOG OF HOLE

Color and Type of Material Encountered



APPENDIX B

Photographic Log





APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



June 29, 2023

KALEI JENNINGS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: JALMAT FIELD YATES SAND UNIT # 203 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/28/23 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SS 01 @ .5' (H233352-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SS 02 @ .5' (H233352-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	92.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SS 03 @ .5' (H233352-03)

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	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
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Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	86.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SS 04 @ .5' (H233352-04)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	91.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 01 @ 0-7' (H233352-05)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	85.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 02 @ 0-7' (H233352-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 03 @ 0-7' (H233352-07)

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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

Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 04 @ 0-6' (H233352-08)

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	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	97.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

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Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 05 @ 0-6' (H233352-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	97.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/28/2023	Sampling Date:	06/27/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: SW 06 @ 0-6' (H233352-10)

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	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/29/2023	ND	384	96.0	400	8.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	104 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 01 @ 7' (H233352-11)

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	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	75.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 02 @ 7' (H233352-12)

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	06/29/2023	ND	2.04	102	2.00	2.08	
Toluene*	<0.050	0.050	06/29/2023	ND	1.97	98.5	2.00	0.273	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.14	107	2.00	0.338	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.47	108	6.00	0.957	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 03 @ 7' (H233352-13)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	101 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 04 @ 7' (H233352-14)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 05 @ 6' (H233352-15)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	95.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 06 @ 6' (H233352-16)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	84.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 07 @ 6' (H233352-17)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	95.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 08 @ 6' (H233352-18)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 09 @ 6' (H233352-19)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	88.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	06/28/2023	Sampling Date:	06/28/2023
Reported:	06/29/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK 32.391558,-103.3357524		

Sample ID: FS 10 @ 6' (H233352-20)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/29/2023	ND	2.25	112	2.00	3.93	
Toluene*	<0.050	0.050	06/29/2023	ND	2.26	113	2.00	4.52	
Ethylbenzene*	<0.050	0.050	06/29/2023	ND	2.12	106	2.00	1.67	
Total Xylenes*	<0.150	0.150	06/29/2023	ND	6.55	109	6.00	1.06	
Total BTEX	<0.300	0.300	06/29/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	06/29/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/29/2023	ND	197	98.3	200	3.36	
DRO >C10-C28*	<10.0	10.0	06/29/2023	ND	181	90.5	200	1.69	
EXT DRO >C28-C36	<10.0	10.0	06/29/2023	ND					
Surrogate: 1-Chlorooctane	89.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Received by OCD: 7/17/2023 3:34:45 PM

CHAIN-OF-CUSTODY AND ANALYS'S REQUEST

101 East Marland, Hobbs, NM 88240

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

ompany Name: Ch5010M, LLC	BILL TO ANALYSIS REQUEST
roject Manager: boylei Jennings	P.O. #:
ddress: 8/22 Nat Parks Hwy	Company: A.A.
ity: Carlsbed State M Zip: 88170	Attn:
hone #: \$17-683-2503 Fax #:	Address:
roject #: 1607 1671 KT Project Owner: 0 0100 vio h	
roject Name: 101/00 Field VATES SAND UNTHORSHONI	All States Time
roject Name: Jalmat Field VATES SAND UNT#203 Flach roject Location: (32, 39 558, -103, 3357524) ampler Name: Julianna Falcomata	Alstate: Zip:
ampler Name: Villianna, Falcomata	Phone #:
OR LAB USE ONLY MATRIX	PRESERV. SAMPLING
Tap I'D Samble I'D (G)RAB OR (C)OMP (G)RAB OR (C)OMP	H H H H H H H H H H H H H H H H H H H
1 SSO1 $(0,5')$ (21) (1)	
2 5602 @ .5'	
3 5503 @,5'	1045 / 1 / 1 1050 / 1050
4 5504 (0,5'	
5 SW01(@ 0-7'	1100
4 5W02 @ 0-7'	105
7 GWB (000-7" 8 GWB @ D-6'	IID
	1115
9 SUDS $\bigcirc 0-6'$	1120
SE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contractes. All claims including those for negligence and any other cause what seever shall be depend universe.	
e. In no event shall Cardinal be liable for incidental or consequential damages, include beenfield waved unless made in writing at es or successors arising or of or related to the performance of services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services hereunder by Cardinal, regardless of whether such claim the services here the servic	Id received by Cardinal within 30 days after completion of the applicable
ivered By: (Circle One) Observed Temp. °C 3,8 Sample Condit opler - UPS - Bus - Other: Corrected Temp. °C 3,2 Yes Yes FORM-000 R 3.3 07/16/22 No No No No	Initials) Turnaround Time: Standard Bacteria (only) Sample Condition S Initials) Thermometer ID #113 Other Cool Intact Observed Temp. °C
FORM-000 R 3.3 07/10/22	Thermometer ID #113 Correction Factor -0.6°C 24 Yes Ves No Corrected Temp. °C

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



CHAIN-OF-CUS TODY AND ANALYSIS REQUEST

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

ect Manager: hole lennings ress: 3h2 hole hole Cov/5b0x0 State: hole Zip: 28220 ne #: 511-68-2503 Fax #: Fax #: hole Fax #: ect #: 03D2057D87 Project Owner: Mallerick	P.O. #: A.A. Company: Attn:	ANALYSIS REQUEST
Covisional State: NN Zip: 88220 ne #: 817-68-2508 Fax #:		
ie #: 511-68-2503 Fax #:	Attn:	
ie #: 511-68-2503 Fax #:		
ct #: 05P2057D87 Project Owner: 1/110 rick	Address:	
	City:	
ict Name: almost Field VATESSAND UNITHEOSPOUD		
ct Location (32, 39) 58, -103,3357824) Der Name: 111 01/00 Fallomata	Phone #:	
oler Name: Mana Falcomata	Fax #:	
	PRESERV. SAMPLING	
PI.D. Sample I.D. (G)RAB OR (C)OMP # CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER Soil	ACIDIBASE: ACIDIBASE: ICE / COOL	
3323 (GRAB C GROUND WASTEW WASTEW	ACIDIBASE ACIDIB	
12 FSD7 @ 7'	X 6 78/23 340	
13 503 6 7'	1 1345	
14 FSOM Q7'	350	
15 FSOS @ 6'	14/10	
14 PS06 @ 6	1405	
17 FS07 @ 6	14/1	
18 1508 0 6'	1415	
19 1509 @6	1920	
DTE: Liability and Damages. Cardina's liability and client's exclusive remark for any claim origina whether here is	V V 1425	
DTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract I claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing ar o event shall Cardinal be liable for incidental or consequental damages, including without invitation, business interruptions, successors arising out of or related to the performance of services hereunder by Cardina, regardlese of whether with short	d received by Cardinal within 30 days after completion of the	the explicable
successors arising out of or related to the performance of services hereunder by Cardina regardless of whether such claim	is based upon any of the above stated reasons or otherwise	es,
6-28-23 Contra	Verbal Res All Results	are emailed. Please provide Email address:
Jished By: Date: Date: Date:	Wind Ser Winni	Mas Appstum from icalemate a mal
Dáte: Received By:	REMARKS	ings @ensdum.com ifalcomata ensolu
Time:		, i i i i i i i i i i i i i i i i i i i
ed By: (Circle One) Observed Temp. °C 3.8 Sample Condit	on CHECKED BY: Turnaround	Time: Standard D. B. (
r - UPS - Bus - Other: Corrected Temp. °C 3-3 Cool Intact □ Yes □ Yes CORM-000 R 3.3 07/18/22 † Cardinal cannot accept verbal char	(Initials) Thermometer Correction Fa	Rush Cool Intact Observed Temp. °C



July 03, 2023

KALEI JENNINGS ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: JALMAT FIELD YATES SAND UNIT # 203 FLOWLINE

Enclosed are the results of analyses for samples received by the laboratory on 06/30/23 11:00.

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/qa/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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/30/2023	Sampling Date:	06/30/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.391558,-103.3357524)		

Sample ID: FS 06 @ 6.25' (H233389-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2023	ND	2.09	104	2.00	3.08	
Toluene*	<0.050	0.050	06/30/2023	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	1.97	98.4	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	5.92	98.6	6.00	4.92	
Total BTEX	<0.300	0.300	06/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2023	ND	186	92.9	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/30/2023	ND	186	92.9	200	0.777	
EXT DRO >C28-C36	<10.0	10.0	06/30/2023	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and clent's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatscever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including whother is subsidiaries, affiliates or successor arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/30/2023	Sampling Date:	06/30/2023
Reported:	07/03/2023	Sampling Type:	Soil
Project Name:	JALMAT FIELD YATES SAND UNIT # 203	Sampling Condition:	Cool & Intact
Project Number:	03D2057087	Sample Received By:	Tamara Oldaker
Project Location:	MAVERICK (32.391558,-103.3357524)		

Sample ID: FS 10 @ 6.25' (H233389-02)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/30/2023	ND	2.09	104	2.00	3.08	
Toluene*	<0.050	0.050	06/30/2023	ND	2.04	102	2.00	3.21	
Ethylbenzene*	<0.050	0.050	06/30/2023	ND	1.97	98.4	2.00	3.88	
Total Xylenes*	<0.150	0.150	06/30/2023	ND	5.92	98.6	6.00	4.92	
Total BTEX	<0.300	0.300	06/30/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	06/30/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/30/2023	ND	186	92.9	200	1.10	
DRO >C10-C28*	<10.0	10.0	06/30/2023	ND	186	92.9	200	0.777	
EXT DRO >C28-C36	<10.0	10.0	06/30/2023	ND					
Surrogate: 1-Chlorooctane	74.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALY SIS REQUEST

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

roject Manager: 16 Jan Com 14 Lans	BILL TO	ANALYSIS REQUEST
PINEL SERVINGS	P.O. #:	
Idress: BIZZ Nat'l Parks Havy	Company: A,A	1
ty: Cay15bard State: NMZip: 88220	Attn:	
none #: 417-683-2503 Fax #:	Address:	
oject #: 08,02057087 Project Owner: Mallhick	City:	
oject Name: almost Field ato SADDI WITH BAR	State: Zip:	
oject Location: 32.39 558, -103,3557524)	Phone #:	
mpler Name: Whathat Falcomata	Fax #:	
IN LAB USE ONLY MATRIX	PRESERV. SAMPLING	
ap I.D. Sample I.D. (G)RAB OR (C)OMP # CONTAINERS # CONTAINERS	OTHER: ACID/BASE: ICE / COOL C OTHER: AMIL	FA FUNDINO
69,848 (G),848 C	OTHER ACIDIBA ICE / CO OTHER ACIDIBA	
(F5000 6.25' 41)		
2 F5 0 0 10.75 144 1	X 630/23 0940	
	1 1 0950	
E NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or s. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and	r fort shall be limited to the	
In no event shall Cardinal be liable for incidental or conservation of the	received by Cardinal within 30 days after completion of the	applicable
s or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is a construction of a construction of the performance of services hereunder by Cardinal, regardless of whether such claim is Date: Received, By:	based upon any of the above stated reasons or otherwise.	
Date: Date: Received By: Date: Construction of animal regimes of whether such claim is Construction of the such claim i	All Results a	ult: Ves No Add'l Phone #: are emailed. Please provide Email address:
nquished By: Date: Received By:	laapte	
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vered By: (Circle One) Observed Temp. °C 5, 2 Sample Conditio		Time: Standard Bacteria (only) Sample Condition
oler - UPS - Bus - Other: Corrected Temp. °C // Cool Intact	(Initials)	Rush Cool Intact Observed Temp °C
Dier - UPS - Bus - Other: Corrected Temp. °C 4.6 Cool Intact FORM-000 R 3.3 07/16/22 No No No	Correction Fac	ctor -0.6°C 24MC Directed Temp. °C



APPENDIX D

NMOCD Notificaitons

Released to Imaging: 10/6/2023 11:03:22 AM

From:	Velez, Nelson, EMNRD
То:	Kalei Jennings
Cc:	Aimee Cole
Subject:	Re: [EXTERNAL] Maverick Permian- Extension Request- Jalmat Yates Sand Unit #203 Flowline (Incident Number NAPP2311056555)
Date:	Thursday, July 6, 2023 2:12:33 PM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	Outlook-n0uopiz0.png

****EXTERNAL EMAIL****

Good afternoon Kalei,

Your 30-day time extension request is approved. Remediation Due date has been updated to August 7, 2023 on the incident page.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,

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



From: Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>
Sent: Wednesday, July 5, 2023 2:34 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Subject: FW: [EXTERNAL] Maverick Permian- Extension Request- Jalmat Yates Sand Unit #203
Flowline (Incident Number NAPP2311056555)

Good afternoon, Nelson

Please see request below.

Mike

From: Buchanan, Michael, EMNRD
Sent: Wednesday, July 5, 2023 2:34 PM
To: Kalei Jennings <kjennings@ensolum.com>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Aimee Cole <acole@ensolum.com>
Subject: RE: [EXTERNAL] Maverick Permian- Extension Request- Jalmat Yates Sand Unit #203
Flowline (Incident Number NAPP2311056555)

Good afternoon, Kalei

This request will be forwarded to the appropriate personnel for determination.

Regards,

Mike Buchanan • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 8801 Horizon Blvd. NE | Albuquerque, NM 87113 | michael.buchanan@emnrd.nm.gov http://www.emnrd.nm.gov/ocd_



From: Kalei Jennings <kjennings@ensolum.com>
Sent: Wednesday, July 5, 2023 10:31 AM
To: Enviro, OCD, EMNRD <<u>OCD.Enviro@emnrd.nm.gov</u>>
Cc: Aimee Cole <<u>acole@ensolum.com</u>>
Subject: [EXTERNAL] Maverick Permian- Extension Request- Jalmat Yates Sand Unit #203 Flowline
(Incident Number NAPP2311056555)

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

To Whom It May Concern,

Jalmat Yates Sand Unit #203 Flowline (Incident Number NAPP2311056555)

Maverick Permian, LLC (Maverick) is requesting an extension for the current deadline of July 8, 2023,

for submitting a report required in 19.15.29.12.B.(1) NMAC detailing remedial actions at the Jalmat Yates Sand Unit #203 Flowline (Incident Number NAPP2311056555). On April 9, 2023, a flowline developed a hole due to corrosion which caused a crude oil release onto the pasture at the Site. To date, approximately 600 cubic yards of impacted soil has been excavated, hauled, and disposed of at an approved disposal facility. Excavation of impacted soil has been completed. Based on the most recent field screening results collected Monday this week, Maverick believes all impacted soil has been removed; however, we are waiting for laboratory analytical results to confirm. In order to review laboratory analytical results and submit a closure report, Maverick requests a 30-day extension of this deadline until August 7, 2023.

Thank you,



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



APPENDIX E

Final C-141

Released to Imaging: 10/6/2023 11:03:22 AM

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	nAPP2311056555
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Maverick Permian, LLC	OGRID 331199
Contact Name: Bryce Wagoner	Contact Telephone: 928-241-1862
Contact email: Bryce.Wagoner@mavresources.com	Incident # nAPP2311056555
Contact mailing address: 1410 NW County Road Hobbs, NM 88240	

Location of Release Source

Latitude 32.391558

Longitude -103.3357524_ (NAD 83 in decimal degrees to 5 decimal places)

Site Name: Jalmat Field Yates Sand Unit #203 Flowline	Site Type: Flowline Leak
Date Release Discovered: April 9 th , 2023	API# (if applicable): 30-025-36576

Unit Letter	Section	Township	Range	County
J	14	22S	35E	Lea

Surface Owner: State Federal Tribal X Private (Name:

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	Volume Released (bbls) 8 bbls	Volume Recovered (bbls) 0 bbls		
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)		
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No		
Condensate	Volume Released (bbls)	Volume Recovered (bbls)		
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)		
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)		

Cause of Release:

A pin hole developed on a flowline, releasing approximately 8 barrels of crude oil. An area measuring approximately 50 feet by 50 feet was affected. A backhoe was deployed and scrapped up the standing fluid.

Page 2

Oil Conservation Division

Incident ID	nAPP2311056555
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
🗌 Yes 🖾 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Initial Response

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

 \square The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

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:

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 attach a narrative of actions to date. 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 attach all information needed for closure evaluation.

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

Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature:	Date:4/18/2023
email:Bryce!Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by: Jocelyn Harimon	Date:04/21/2023

Page 3

Oil Conservation Division

	Page 52 of 55
Incident ID	nAPP2311056555
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?	X Yes 🗌 No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- \boxtimes Laboratory data including chain of custody

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

Received by OCD: 7/17/2023 3:34:45 PM Form C-141 State of New Mexico			Page 53 of 55	
			Incident ID	nAPP2311056555
Page 4	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all operators a public health or the envir failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name:Bry Signature:		tifications and perform co OCD does not relieve the reat to groundwater, surfa of responsibility for compl Fitle:Permian HSI Date:07/18/2023	prrective actions for rele coperator of liability sho ce water, human health iance with any other feo E Specialist II	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
OCD Only				
Received by: <u>Shelly</u>	Wells	Date: <u>7/17/2</u>		
noccived by: <u>n</u>				

Page 6

Oil Conservation Division

Incident ID	nAPP2311056555
District RP	
Facility ID	
Application ID	

Closure

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

<u>Closure Report Attachment Checklist</u>: 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 photo must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C 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 certa may endanger public health or the environment. The acceptance o should their operations have failed to adequately investigate and re human health or the environment. In addition, OCD acceptance of	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Printed Name:Bryce Wagoner	Title:Permian HSE Specialist II
Signature:	Date:07/18/2023
email:Bryce.Wagoner@mavresources.com	Telephone:928-241-1862
OCD Only	
Received by: <u>Shelly Wells</u>	Date:7/17/2023
	y of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
	C. Forbearance previously given to 3rd party on
09/27/2023 (App ID 236326). Release resolved	

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

District IV 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

Operator:	OGRID:
Maverick Permian LLC	331199
1000 Main Street, Suite 2900	Action Number:
Houston, TX 77002	241100
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Operator did not meet 19.15.29.12D (1a) NMAC. Forbearance previously given to 3rd party on 09/27/2023 (App ID 236326). Release resolved.	10/6/2023

CONDITIONS

Action 241100