

### ity Oilfield Services & Rentals, LLC



### **Environmental Site Summary & Spill Remediation Proposal**

Company: Mewbourne Oil Company	Address: P.O. Box 5270, Hobbs, NM 88241	Telephone #:(575)393-5905
Site Name: Merit 32 DM St. Com #1H	NMOCD Reference#:	1RP-4724
Surface Owner: State of New Mexico	Mineral Owner: State of New Mexic	со
Unit Letter: D Section: 32 Township	o: 188 Range: 35E County: Lea GPS Cou	ordinates: <u>32.7105675</u> N <u>103.487175</u> W
Depth to Ground Water: 58' - 60'	Distance to Surface Water Body: ☐ <200'	<b>□</b> 200' - 1,000'
Wellhead Protection Area: <1,000' from Wate	er Source or <200' from Domestic Water Sou	rce? □Y ☑N
NMOCD Ranking Score: 10 Soil Remediation	on Levels (mg/kg): Benzene: 10 BTEX: 50 T	PH: ☐ 100 Chloride: ☐ 100 ☑ 1,000 ☑ 500
Date/Time of Release: 6/9/2017 Ty	Produced Water  vpe of Release: & Crude Oil Approxima	5,000 1,000 ate Volume of Release: 130 bbls
Background Information:		
On June 9, 2017, Mewbourne Oil Compar 32) tank battery. Lightning struck the tank barrels (bbls) of crude oil and produced was equipment was isolated from the transfer oil and 120 bbls of produced water. Heavil final disposition.	battery, resulting in a fire and the release ater. During initial response activities, the system. Vacuum trucks were utilized to red	of a total of approximately 130 well was shut-in, and all separation cover approximately 10 bbls of crude
The release impacted approximately 18,50 historical, non-reportable (i.e., <5 bbls) releastureland measuring approximately 2,00	ease. Overspray from the release impacte	
The release was immediately reported to t The NMOCD "Release Notification & Corre of the release site are provided in Append		s Appendix A. General photographs

### **Summary of Field Activities:**

On June 15, 2017, one (1) hand-augered borehole (AH-1) was advanced at the site to investigate the vertical extent of impacted soil. The auger hole was located in the approximate center of the containment area of the former tank battery and was advanced to the hard rock layer running underneath the site (approximately 2 feet below ground surface). Representative soil samples were field-screened with a chloride test kit, and the results indicated additional vertical delineation was required.

On June 19, 2017, four (4) delineation trenches were advanced to further investigate the vertical extent of impacted soil in the containment area of the former tank battery. Trenches SP-4 and SP-5 were advanced at the western and eastern extents, respectively, of the containment area. Trench SP-6 was advanced along the flow path of the release. A delineation trench was also advanced in the area represented by auger hole AH-1. The trenches were advanced to the hard rock layer running underneath the site: approximately 2 feet below ground surface (bgs). Representative soil samples were field-screened with a chloride test kit, and confirmation samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of chloride, total petroleum hydrocarbons (TPH), and/or benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations using Environmental Protection Agency (EPA) Methods 300, SW 846-8021b, and SW 846-8015M, respectively. Laboratory analytical results and field tests indicated vertical delineation was achieved in the eastern and western extents of the former containment area, but additional vertical delineation was required in the areas represented by auger hole AH-1 and Trench SP-6. However, further vertical advancement into the hard rock layer was deemed impracticable without specialized equipment.

### **Trinity Oilfield Services & Rentals, LLC**



### **Environmental Site Summary & Spill Remediation Proposal**

### Summary of Field Activities (cont.):

On June 21, 2017, a mechanical auger was utilized to advance a borehole (AH-2) in the primary pooling area of the release. The auger hole was advanced to the extent practicable: approximately 5 feet bgs. Representative soil samples were field-screened with a chloride test kit, and a confirmation sample was submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results and field screens indicated vertical delineation of the pooling area had been achieved.

On June 27, 2017, a mechanical auger was utilized to advance borehole AH-1 to approximately 2.75 feet bgs. An additional borehole (AH-3) was advanced in the area represented by delineation trench SP-6 to a total depth of approximately 4 feet bgs. Representative soil samples were field-screened with a chloride test kit, and confirmation samples were submitted to the laboratory for analysis of chloride, TPH, and BTEX concentrations. Laboratory analytical results and field screens indicated vertical delineation of the release had been achieved.

Locations of the boreholes and delineation trenches are depicted in Figure 2, "Site & Sample Location Map". Laboratory analytical results are summarized in Table 1, and analytical reports are provided in Appendix C.

### **Proposed Activities:**

- The excavation will be advanced vertically to the hard rock layer running underneath the site, which is commonly encountered between approximately 1.5 and 2 feet bgs.
- The excavation will be advanced horizontally until field test readings and/or visual/olfactory senses suggest contaminants of concern are below the RRALs established for the site by the NMOCD (or to the extent practicable). In affected areas to the east of the former tank battery, excavation may be limited by the presence of a transfer pump and associated pipes, appurtenances, and/or electrical lines.
- Pursuant to NMOCD request, additional vertical delineation will be conducted in the areas represented by auger holes AH-1, AH-2, and AH-3.
- Excavated soil will be stockpiled on-site on 6-mil polyethylene plastic, pending transfer to an NMOCD-permitted facility for disposal.
- A 20-mil, impermeable, polyethylene liner will be installed on the floor of the excavation prior to backfilling. A cushion of sand will be installed approximately 6 inches both above and below the liner to protect it during installation and backfilling activities. This engineered control will serve to inhibit vertical migration of contaminants remaining in-situ. Following liner installation, the excavation will be backfilled with locally acquired, non-impacted material, compacted, and contoured to fit the surrounding topography.
- The overspray area will be treated with a Micro-Blaze® solution to promote biodegradation and attenuation of hydrocarbons.
- Upon completion of the aforementioned corrective actions, a "Remediation Summary" will be submitted to the NMOCD, documenting remediation activities and results of confirmation soil samples.

### **Trinity Oilfield Services & Rentals, LLC**



### **Environmental Site Summary & Spill Remediation Proposal**

<b>Proposed Soil B</b>	Boring/Mon	itor Well Loca	ations:	Name/Description:
N/A	N	N/A	w	N/A
	N		w	
	N		w	
	N		w	
	N			

**Enclosures:** 

Figure 1: Site Location Map

Figure 2: Site & Sample Location Map

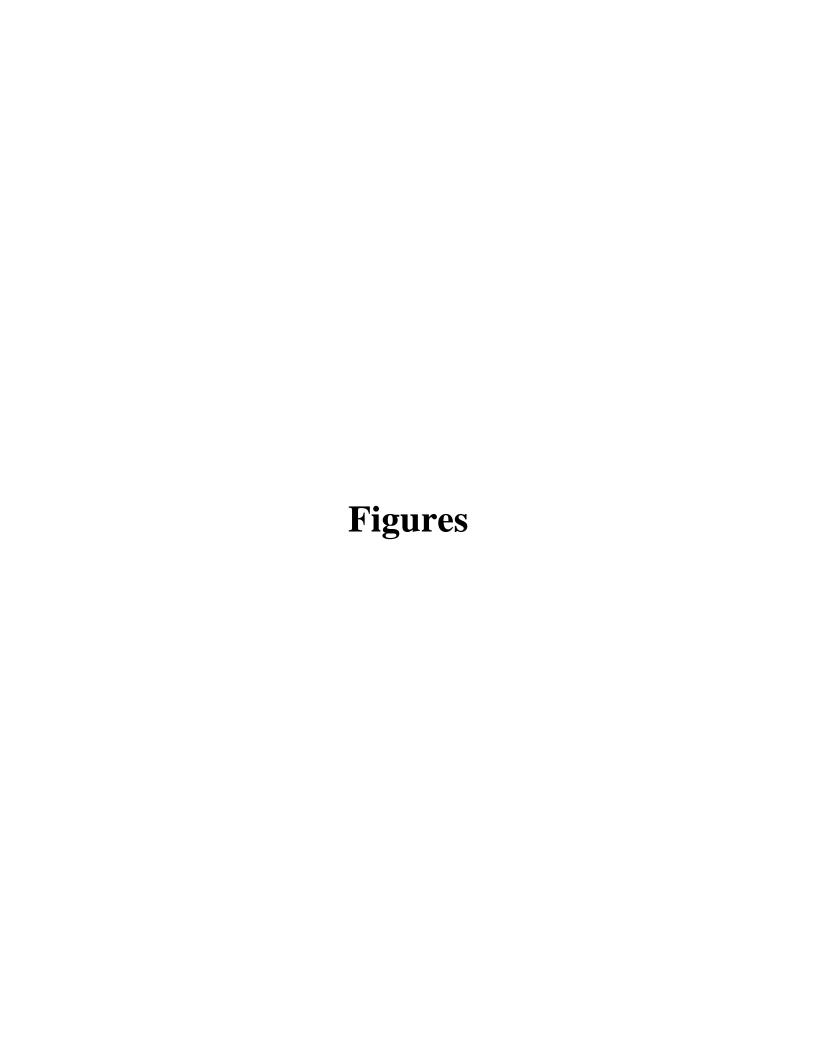
Table 1: Concentrations of Benzene, BTEX, TPH & Chloride in Soil Appendix A: Release Notification & Corrective Action (Form C-141)

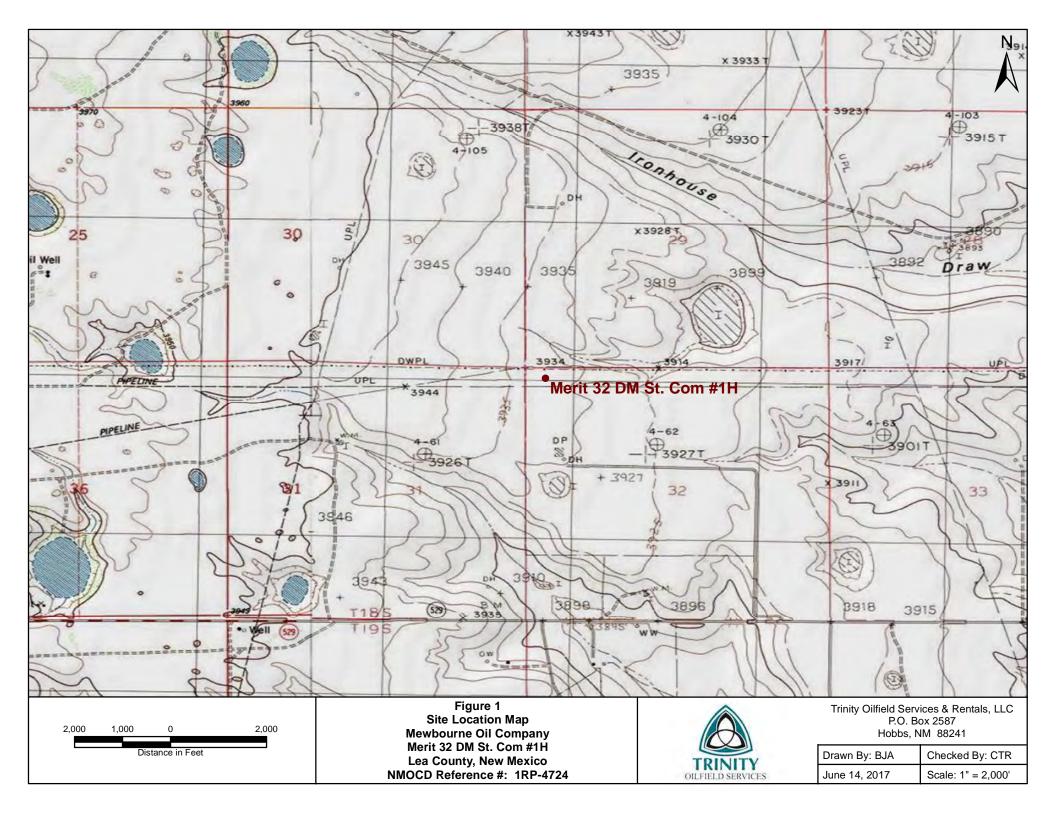
**Appendix B: Photographs** 

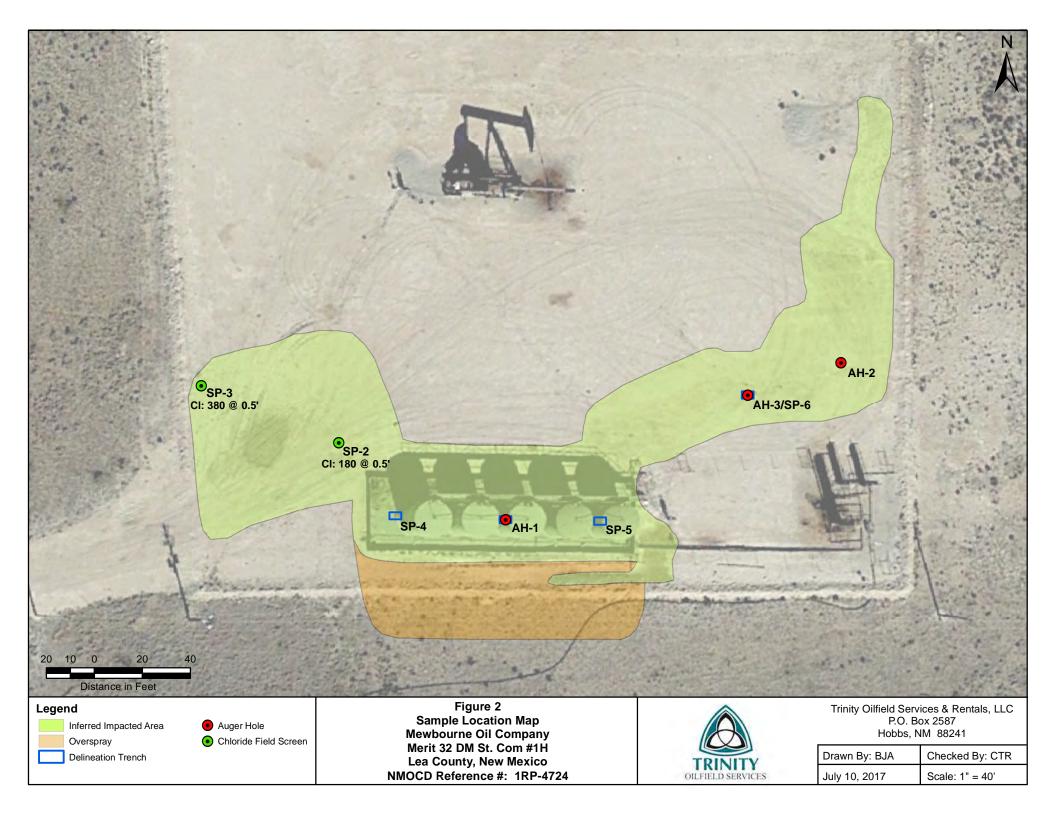
**Appendix C: Laboratory Analytical Results** 

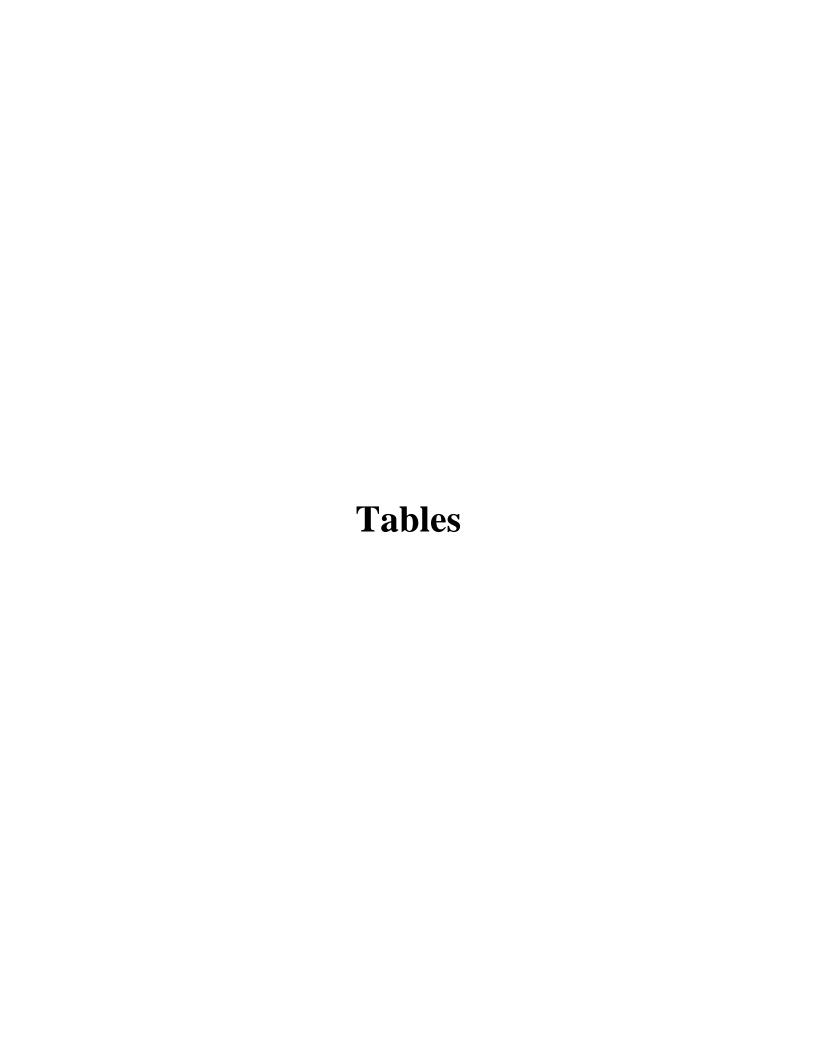
7/10/2017

Ben J. Arguijo Project Manager









### TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

MEWBOURNE OIL COMPANY MERIT 32 DM ST. COM #1H LEA COUNTY, NEW MEXICO NMOCD REF. #: 1RP-4724



					METHOD: E	PA SW 846-	8021B, 5030			METHO	D: 8015M		300.0
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL- BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C <sub>6</sub> -C <sub>12</sub> (mg/Kg)	DRO C <sub>12</sub> -C <sub>28</sub> (mg/Kg)	EXT DRO C <sub>28</sub> -C <sub>35</sub> (mg/Kg)	TPH C <sub>6</sub> -C <sub>35</sub> (mg/Kg)	CHLORIDE (mg/Kg)
<b>NMOCD Recommended</b>	Remediation	n Action Leve	els (RRALs)	10	NE	NE	NE	50	NE	NE	NE	1,000	500
SP-4 @ 2'	2'	6/19/2017	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	56.5
SP-5 @ 2'	2'	6/19/2017	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	155
AH-2 @ 5'	5'	6/21/2017	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	206
AH-1 @ 2.75'	2.75'	6/27/2017	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	12.0	14.6	26.6	137
AH-3 @ 4'	4'	6/27/2017	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	206

NE = Not established



# Appendix A Release Notification & Corrective Action (Form C-141)

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

### State of New Mexico Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011
Conv. to appropriate District Office in

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

		Rel	ease Notific	ation	and Co	rrective A	ction	1				
					<b>OPERA</b>	ГOR		Initia	al Report			
Name of Compa			any		Contact: Za							
Address: PO Bo						No. 575-393-590						
Facility Name: N	Merit 32 DM St.	com #1H			Facility Typ	e: Producing O	ıl Well					
Surface Owner:	State		Mineral C	wner:				API No. 30-025-40836				
			LOCA	TION	OF RE	LEASE						
Unit Letter Sec	ction Township	Range	Feet from the		South Line	Feet from the	East/V	Vest Line	County			
D 32	18S	35E	245'	North		330'	West		Lea			
		L	atitude32.710		_ Longitud		5					
Type of Release: 0	Oil/produced wate	r				Release: estimate	ed 130		Recovered: il/ 120 bbls pw			
Source of Release	: Tank Battery				bbls Date and F	our of Occurrence	e		Hour of Discovery			
Source of Release	. Tunk Buttory				6-9-17	5:00 am		6-9-17	5:00 am			
Was Immediate N		⊠ Yes □	] No ☐ Not Re	equired	If YES, To Mark Whit	Whom? aker; NMOCD						
By Whom? Zack					Date and I			:40 pm				
Was a Watercours		☐ Yes 🗵	7 No		If YES, Vo	lume Impacting t	the Wate	ercourse.				
If a Watercourse v	f Problem and Ren	nedial Actio	n Taken.*	II ganger	ation againm	ont icolated Man	nument s	and Hobbe	Fire Departments were			
dispatched to put		g fire. Wei	was snut-in and a	iii separa	ation equipme	ent isolated. Ivion	iumem a	ilid Hoods	Fire Departments were			
Describe Area Aff	fected and Cleanup	Action Tal	ken.*									
Affected area- Pa	d surface Northwe	st of tank c	ontainment. Vacu	um trucl	k used to reco	over all standing f	fluid.					
regulations all ope public health or th should their opera	erators are required the environment. The tions have failed to the in addition, NA	I to report and acceptand adequately IOCD accept	nd/or file certain r ce of a C-141 report investigate and r	elease no ort by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr e the operator of	etive act leport" d eat to gr respons	ions for reli loes not reli round water ibility for c	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other			
Signature: Printed Name: Zac	. Thomas				Approved by	OIL CON  Environmental S		9~	DIVISION			
Title: Environmen					Approval Da	<sub>ee:</sub> 6/15/201	7	Expiration	Date:			
E-mail Address: z	thomas@mewbou	rne.com			Conditions o	Approval:			Attached 💟			

\* Attach Additional Sheets If Necessary

Date: 6-12-17

Phone: 575-602-2188

Appendix B Photographs



Merit 32 DM St. Com #1H - Release (Looking East)





Merit 32 DM St. Com #1H – Release (Looking South)



Merit 32 DM St. Com #1H – Release (Looking Southwest)



Merit 32 DM St. Com #1H – Release (Looking South)



Merit 32 DM St. Com #1H – Release (Looking South-Southwest)



Merit 32 DM St. Com #1H – Release (Looking Northwest)



Merit 32 DM St. Com #1H – Release (Looking West)



Merit 32 DM St. Com #1H – Release (Looking Northwest)



Merit 32 DM St. Com #1H – Release (Looking North)



Merit 32 DM St. Com #1H – Overspray Area (Looking Southwest)

# Appendix C Laboratory Analytical Reports



July 05, 2017

**BEN ARGUIJO** 

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MERIT 32 DM ST. COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/20/17 16:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: DM ST. COM #1H Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 05-Jul-17 10:00

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP-4 @2'	H701600-01	Soil	19-Jun-17 12:10	20-Jun-17 16:25
SP-5 @2'	H701600-02	Soil	19-Jun-17 12:15	20-Jun-17 16:25

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar 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 damage 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 claims 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.



TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: DM ST. COM #1H Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 05-Jul-17 10:00

### SP-4 @2' H701600-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			107 %	72-1	48	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	03-Jul-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	03-Jul-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7062104	MS	03-Jul-17	8015B	
Surrogate: 1-Chlorooctane			101 %	28.3-	164	7062104	MS	03-Jul-17	8015B	
Surrogate: 1-Chlorooctadecane			108 %	34.7-	157	7062104	MS	03-Jul-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	56.5		10.0	mg/kg wet	10	B706277	JDA	30-Jun-17	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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Reported:

05-Jul-17 10:00



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: DM ST. COM #1H

Project Manager: BEN ARGUIJO

Fax To: NONE

SP-5 @2' H701600-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-1	48	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			83.1 %	28.3-	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			72.6 %	34.7-	157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	155		10.0	mg/kg wet	10	B706277	JDA	30-Jun-17	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: DM ST. COM #1H

Project Manager: BEN ARGUIJO Fax To: NONE

Reported: 05-Jul-17 10:00

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062201 - Volatiles										
Blank (7062201-BLK1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.6	72-148			
LCS (7062201-BS1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	2.00	0.050	mg/kg	2.00		99.8	75.5-127			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	77.7-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		98.9	72-148			
LCS Dup (7062201-BSD1)				Prepared &	Analyzed:	22-Jun-17				
Benzene	2.20	0.050	mg/kg	2.00		110	79.5-124	1.21	6.5	
Toluene	2.03	0.050	mg/kg	2.00		101	75.5-127	1.55	7.02	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	77.7-125	3.17	7.83	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	70.9-124	3.22	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	72-148			

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence ar 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 damage 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 claims 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.



TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: DM ST. COM #1H Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 05-Jul-17 10:00

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7062104-BLK1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	ND	10.0	mg/kg						
DRO >C10-C28	ND	10.0	mg/kg						
EXT DRO >C28-C35	ND	10.0	mg/kg						
EXT DRO >C28-C36	ND	10.0	mg/kg						
Total TPH C6-C28	ND	10.0	mg/kg						
Surrogate: 1-Chlorooctane	45.2		mg/kg	50.0	90.4	28.3-164			
Surrogate: 1-Chlorooctadecane	40.0		mg/kg	50.0	80.1	34.7-157			
LCS (7062104-BS1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	177	10.0	mg/kg	200	88.6	76.6-119			
DRO >C10-C28	182	10.0	mg/kg	200	90.9	81.4-124			
Total TPH C6-C28	359	10.0	mg/kg	400	89.8	79.4-121			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0	97.6	28.3-164			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0	87.1	34.7-157			
LCS Dup (7062104-BSD1)				Prepared & Anal	lyzed: 21-Jun-17				
GRO C6-C10	183	10.0	mg/kg	200	91.4	76.6-119	3.03	7.94	
DRO >C10-C28	186	10.0	mg/kg	200	92.9	81.4-124	2.24	9.83	
Total TPH C6-C28	369	10.0	mg/kg	400	92.1	79.4-121	2.63	8.57	
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0	101	28.3-164			
Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0	84.0	34.7-157			

Cardinal Laboratories \*=Accredited Analyte

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%REC



### **Analytical Results For:**

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Spike

Source

Project Number: DM ST. COM #1H Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 05-Jul-17 10:00

RPD

### Soluble (DI Water Extraction) - Quality Control

### **Green Analytical Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B706277 - General Prep - Wet Chem										
Blank (B706277-BLK1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	ND	1.00	mg/kg wet							
LCS (B706277-BS1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	238	10.0	mg/kg wet	250		95.0	85-115			
LCS Dup (B706277-BSD1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	239	10.0	mg/kg wet	250		95.4	85-115	0.433	20	

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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## ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 (575) 202 2226 EAY (575) 393-2476

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Company Name:	Trinity Oilfield Services & Renta							*		E	11	L TO					ANALYSIS REQUEST
Project Manager:	Annia ( )		LISTERATOR	Anacones				P.	0. #	t:							
Address: P.O. B	Sox 2587							Co	mp	any	r: 1	Mewbourn	e Oil Co.				
City: Hobbs	State: NM	Zip	: 8	824	11			At	tn:		2	Zack Thom	as				
Phone #: (575)3	90-7208 Fax #:							A	idre	ess:		P.O. Box	5270				
Project #:	Project Ow	ner:	Me	ewb	oum	e Oi	Co.	Ci	ty:			Hobbs					
	Merit 32 DM St. Com #1H				*****	*****	****	-	ate	: NN	V	Zip: 8	38241	SM)	BTEX (8021B)	(300)	
Project Location:		www.	nanananananananananananananananananana	~~~~		~~~~		PI	ion	e #:		(575)393-	-5905	TPH (8015M)	(80		
Sampler Name: B	***************************************		******	and the same				Fa	x #	:	-	(575) 397	-6252	I	EX	Chloride	
FOR LAB USE ONLY	, on or ruguly	T	Г	Г	N	ATE	XIX	•	PR	ESE	RV	SAMPL	ING	卢	BT	5	
Lab I.D. H701600 -	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE					
1	50-482	G	1		× 3	X				X		6/19/17	1210	*	X	K	
2	SP-502'	K	K			K	1			K		V	1215	04	X	X	
		+					#										
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Relinquished By:	GAO/A AA	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date: Received By:	REMARKS:
	Time:  Sample Condition CHECKED BY:	Please e-mail results to zthomas@mewbourne.com & ben@trinityoilfieldservices.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	#75 5-9°C Cool Intact (Initials)  ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes ☐ Yes	



July 03, 2017

**BEN ARGUIJO** 

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MERIT 32 DM ST. COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/23/17 14:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 03-Jul-17 16:18

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-2 @ 5'	H701652-01	Soil	21-Jun-17 10:30	23-Jun-17 14:05

Cardinal Laboratories \*=Accredited Analyte

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 03-Jul-17 16:18

### AH-2 @ 5' H701652-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
<b>Volatile Organic Compounds by</b>	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062603	MS	27-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062603	MS	27-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062603	MS	27-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062603	MS	27-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062603	MS	27-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-1	148	7062603	MS	27-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062604	MS	26-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062604	MS	26-Jun-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7062604	MS	26-Jun-17	8015B	
Surrogate: 1-Chlorooctane			81.4 %	28.3-	164	7062604	MS	26-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	34.7-	157	7062604	MS	26-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	206		10.0	mg/kg wet	10	B706277	JDA	30-Jun-17	EPA300.0	

Cardinal Laboratories \*=Accredited Analyte

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0/DEC



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 03-Jul-17 16:18

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062603 - Volatiles										
Blank (7062603-BLK1)				Prepared &	Analyzed:	26-Jun-17				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		98.1	72-148			
LCS (7062603-BS1)				Prepared &	λ Analyzed:	26-Jun-17				
Benzene	2.21	0.050	mg/kg	2.00		111	79.5-124			
Toluene	2.00	0.050	mg/kg	2.00		100	75.5-127			
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	77.7-125			
Total Xylenes	6.12	0.150	mg/kg	6.00		102	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0494		mg/kg	0.0500		98.8	72-148			
LCS Dup (7062603-BSD1)				Prepared &	Analyzed:	26-Jun-17				
Benzene	2.22	0.050	mg/kg	2.00		111	79.5-124	0.417	6.5	
Toluene	2.03	0.050	mg/kg	2.00		101	75.5-127	1.29	7.02	
Ethylbenzene	2.12	0.050	mg/kg	2.00		106	77.7-125	1.31	7.83	
Total Xylenes	6.21	0.150	mg/kg	6.00		104	70.9-124	1.46	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		99.0	72-148			

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 03-Jul-17 16:18

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7062604-BLK1)				Prepared & Anal	yzed: 26-Jun-17			
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C35	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Total TPH C6-C28	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	48.3		mg/kg	50.0	96.6	28.3-164		
Surrogate: 1-Chlorooctadecane	48.6		mg/kg	50.0	97.2	34.7-157		
LCS (7062604-BS1)				Prepared & Anal	yzed: 26-Jun-17			
GRO C6-C10	203	10.0	mg/kg	200	101	76.6-119		
DRO >C10-C28	211	10.0	mg/kg	200	106	81.4-124		
Total TPH C6-C28	414	10.0	mg/kg	400	103	79.4-121		
Surrogate: 1-Chlorooctane	53.3		mg/kg	50.0	107	28.3-164		
Surrogate: 1-Chlorooctadecane	53.6		mg/kg	50.0	107	34.7-157		
LCS Dup (7062604-BSD1)				Prepared & Anal	yzed: 26-Jun-17			
GRO C6-C10	211	10.0	mg/kg	200	106	76.6-119	4.16	7.94
DRO >C10-C28	223	10.0	mg/kg	200	111	81.4-124	5.30	9.83
Total TPH C6-C28	434	10.0	mg/kg	400	108	79.4-121	4.74	8.57
Surrogate: 1-Chlorooctane	55.5		mg/kg	50.0	111	28.3-164		
Surrogate: 1-Chlorooctadecane	56.2		mg/kg	50.0	112	34.7-157		

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%REC



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Spike

Source

Fax To: NONE

Reported: 03-Jul-17 16:18

RPD

### Soluble (DI Water Extraction) - Quality Control

### **Green Analytical Laboratories**

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B706277 - General Prep - Wet Chem										
Blank (B706277-BLK1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	ND	1.00	mg/kg wet							
LCS (B706277-BS1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	238	10.0	mg/kg wet	250		95.0	85-115			
LCS Dup (B706277-BSD1)				Prepared &	Analyzed:	30-Jun-17				
Chloride	239	10.0	mg/kg wet	250		95.4	85-115	0.433	20	

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

Cardinal Laboratories \*=Accredited Analyte

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

	: Trinity Oilfield Services & Rer	itals, l	LLC	;	-						B	LL TO	)				AN	IALYSIS	REQ	UES	Г	
****************	r: Ben J. Arguijo							1	P.C	). #:								T		T		T
Address: P.O.	Box 2587							1	Co	mpa	any:	Mewbou	me Oil Co.	1				1 1				
City: Hobbs	State: N	M Zij	p:	882	41		ALAMA	7	Att	n:	Androno	Zack Tho	mas	1				1.1				
Phone #: (575)	390-7208 Fax #:	· · · · · · · · · · · · · · · · · · ·	*******		*******	-	********	1	Add	dres	ss:	P.O. Bo	x 5270	1				11				
Project #:	Project Ov	vner:	M	lewb	our	ne O	il C	0. (	City	v:		Hobb	s	1								
Project Name:	Merit 32 DM St. Com #1H	****	en e		*****	*****	*****		*****	***	NM	Zip:		3	<u>@</u>	(300)						
Project Location	n: Lea Co., NM	erinden janjan	**********	******	*******		-		*****	one	risksman	(575)39	*************	151	102			1.1		1 1		
Sampler Name:		***************************************		**********	****		*****	-	****	#:	**********	(575) 39		TPH (8015M)	BTEX (8021B)	Chloride		11		1 1		
FOR LAB USE ONLY		Т	Т	Т		MAT	RIX	_	_		SERV			Ė	H	울		1 1		П		
Lab I.D. <u>H701/</u> 52。	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER	ACID/BACE.	ACID/BASE	OTHER:	DATE	TIME									
1	AH-2 @ 5'	G	1			х	I		Τ			6/21/17	1030	Х	Х	х					$\neg$	
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		+	-	-	+	+	+	+	+	+	H			-	-	$\rightarrow$	-	++	-	$\vdash$	-	

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Relinquished By:	Date: 6/33/17 Received By:	Phone Result:  Yes No Add'l Phone #:  Fax Result: Yes No Add'l Fax #:
11/4	Time:405	REMARKS:
Refinquished By:	Date: B. Received By: Time: 05  Bunara Waller	Please e-mail results to zthomas@mewbourne.com
Delivered By: (Circle One)	Sample Condition CHECKED/BY:	& ben@trinityoilfieldservices.com
Sampler - UPS - Bus - Other:	2.30 Cool Intact (Initials)	
M-006		



July 06, 2017

**BEN ARGUIJO** 

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587

HOBBS, NM 88241

RE: MERIT 32 DM ST. COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 06/29/17 11:46.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keine

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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

Reported:

06-Jul-17 11:46



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AH-1 @ 2.75'	H701713-01	Soil	27-Jun-17 10:45	29-Jun-17 11:46
AH-3 @ 4'	H701713-02	Soil	27-Jun-17 13:35	29-Jun-17 11:46

Cardinal Laboratories \*=Accredited Analyte

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE

Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 06-Jul-17 11:46

### AH-1 @ 2.75' H701713-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-	148	7062903	MS	29-Jun-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
DRO >C10-C28	12.0		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
EXT DRO >C28-C36	14.6		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
Surrogate: 1-Chlorooctane			80.1 %	28.3	-164	7062906	MS	30-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			84.1 %	34.7	-157	7062906	MS	30-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	137		10.0	mg/kg wet	10	B706277	JDA	30-Jun-17	EPA300.0	

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE

Reported: 06-Jul-17 11:46

Project Manager: BEN ARGUIJO

Fax To: NONE

### AH-3 @ 4' H701713-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062903	MS	29-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-	148	7062903	MS	29-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	7062906	MS	30-Jun-17	8015B	
Surrogate: 1-Chlorooctane			96.8 %	28.3-	164	7062906	MS	30-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			101 %	34.7-	-157	7062906	MS	30-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	206		10.0	mg/kg wet	10	B706277	JDA	30-Jun-17	EPA300.0	

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 06-Jul-17 11:46

### Volatile Organic Compounds by EPA Method 8021 - Quality Control

### **Cardinal Laboratories**

Prepared & Analyzed: 29-Jun-17   Prepared & Analyzed: 29-Jun-17			Reporting		Spike	Source		%REC		RPD	
Prepared & Analyzed: 29-Jun-17	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Benzene   ND   0.050   mg/kg	Batch 7062903 - Volatiles										
Toluene ND 0.050 mg/kg Ethylbenzene ND 0.050 mg/kg Total Xylenes ND 0.150 mg/kg Total Sylenes ND 0.300 mg/kg Total BTEX ND 0.300 mg/kg  Surrogate: 4-Bromofluorobenzene (PID) ND mg/kg 0.0500 99.0 72-148  LCS (7062903-BS1) Prepared & Analyzed: 29-Jun-17  Benzene 2.16 0.050 mg/kg 2.00 108 79.5-124 Toluene 1.96 0.050 mg/kg 2.00 98.2 75.5-127 Ethylbenzene 2.04 0.050 mg/kg 2.00 102 77.7-125 Total Xylenes 6.08 0.150 mg/kg 6.00 101 70.9-124  Surrogate: 4-Bromofluorobenzene (PID) 0.0501 mg/kg 0.0500 mg/kg 2.00 100 72-148  LCS Dup (7062903-BSD1)  Prepared & Analyzed: 29-Jun-17  Benzene 2.13 0.050 mg/kg 2.00 106 79.5-124 1.42 6.5 Totuene 1.93 0.050 mg/kg 2.00 96.3 75.5-127 1.95 7.02 Ethylbenzene 2.00 0.050 mg/kg 2.00 99.9 77.7-125 1.92 7.83 Total Xylenes 6.00 0.150 mg/kg 6.00 100 70.9-124 1.31 7.78	Blank (7062903-BLK1)				Prepared &	Analyzed:	29-Jun-17				
Total Xylenes	Benzene	ND	0.050	mg/kg							
Total Xylenes	Toluene	ND	0.050	mg/kg							
Total BTEX   ND   0.300   mg/kg     Surrogate: 4-Bromofluorobenzene (PID)   ND   mg/kg   0.0500   99.0   72-148	Ethylbenzene	ND	0.050	mg/kg							
ND   mg/kg   0.0500   99.0   72-148	Total Xylenes	ND	0.150	mg/kg							
Prepared & Analyzed: 29-Jun-17	Total BTEX	ND	0.300	mg/kg							
Benzene   2.16   0.050   mg/kg   2.00   108   79.5-124     Toluene   1.96   0.050   mg/kg   2.00   98.2   75.5-127     Ethylbenzene   2.04   0.050   mg/kg   2.00   102   77.7-125     Total Xylenes   6.08   0.150   mg/kg   6.00   101   70.9-124	Surrogate: 4-Bromofluorobenzene (PID)	ND		mg/kg	0.0500		99.0	72-148			
Toluene 1.96 0.050 mg/kg 2.00 98.2 75.5-127 Ethylbenzene 2.04 0.050 mg/kg 2.00 102 77.7-125 Total Xylenes 6.08 0.150 mg/kg 6.00 101 70.9-124  **Surrogate: 4-Bromofluorobenzene (PID) 0.0501 mg/kg 0.0500 100 72-148  **LCS Dup (7062903-BSD1)**  **Prepared & Analyzed: 29-Jun-17**  Benzene 2.13 0.050 mg/kg 2.00 106 79.5-124 1.42 6.5 Toluene 1.93 0.050 mg/kg 2.00 96.3 75.5-127 1.95 7.02 Ethylbenzene 2.00 0.050 mg/kg 2.00 99.9 77.7-125 1.92 7.83 Total Xylenes 6.00 0.150 mg/kg 6.00 100 70.9-124 1.31 7.78	LCS (7062903-BS1)				Prepared &	Analyzed:	29-Jun-17				
Ethylbenzene 2.04 0.050 mg/kg 2.00 102 77.7-125 Total Xylenes 6.08 0.150 mg/kg 6.00 101 70.9-124  Surrogate: 4-Bromofluorobenzene (PID) 0.0501 mg/kg 0.0500 100 72-148  LCS Dup (7062903-BSD1) Prepared & Analyzed: 29-Jun-17  Benzene 2.13 0.050 mg/kg 2.00 106 79.5-124 1.42 6.5 Toluene 1.93 0.050 mg/kg 2.00 96.3 75.5-127 1.95 7.02 Ethylbenzene 2.00 0.050 mg/kg 2.00 99.9 77.7-125 1.92 7.83 Total Xylenes 6.00 0.150 mg/kg 6.00 100 70.9-124 1.31 7.78	Benzene	2.16	0.050	mg/kg	2.00		108	79.5-124			
Total Xylenes 6.08 0.150 mg/kg 6.00 101 70.9-124  Surrogate: 4-Bromofluorobenzene (PID) 0.0501 mg/kg 0.0500 100 72-148  LCS Dup (7062903-BSD1) Prepared & Analyzed: 29-Jun-17  Benzene 2.13 0.050 mg/kg 2.00 106 79.5-124 1.42 6.5  Toluene 1.93 0.050 mg/kg 2.00 96.3 75.5-127 1.95 7.02  Ethylbenzene 2.00 0.050 mg/kg 2.00 99.9 77.7-125 1.92 7.83  Total Xylenes 6.00 0.150 mg/kg 6.00 100 70.9-124 1.31 7.78	Toluene	1.96	0.050	mg/kg	2.00		98.2	75.5-127			
Surrogate: 4-Bromofluorobenzene (PID)   0.0501   mg/kg   0.0500   100   72-148	Ethylbenzene	2.04	0.050	mg/kg	2.00		102	77.7-125			
LCS Dup (7062903-BSD1)         Prepared & Analyzed: 29-Jun-17           Benzene         2.13         0.050 mg/kg         2.00         106 79.5-124         1.42 6.5           Toluene         1.93         0.050 mg/kg         2.00         96.3 75.5-127         1.95 7.02           Ethylbenzene         2.00         0.050 mg/kg         2.00         99.9 77.7-125         1.92 7.83           Total Xylenes         6.00         0.150 mg/kg         6.00         100 70.9-124         1.31 7.78	Total Xylenes	6.08	0.150	mg/kg	6.00		101	70.9-124			
Benzene         2.13         0.050 mg/kg         2.00         106 79.5-124         1.42 6.5           Toluene         1.93         0.050 mg/kg         2.00         96.3 75.5-127         1.95 7.02           Ethylbenzene         2.00         0.050 mg/kg         2.00         99.9 77.7-125         1.92 7.83           Total Xylenes         6.00         0.150 mg/kg         6.00         100 70.9-124         1.31 7.78	Surrogate: 4-Bromofluorobenzene (PID)	0.0501		mg/kg	0.0500		100	72-148			
Toluene       1.93       0.050 mg/kg       2.00       96.3       75.5-127       1.95       7.02         Ethylbenzene       2.00       0.050 mg/kg       2.00       99.9       77.7-125       1.92       7.83         Total Xylenes       6.00       0.150 mg/kg       6.00       100       70.9-124       1.31       7.78	LCS Dup (7062903-BSD1)				Prepared &	Analyzed:	29-Jun-17				
Ethylbenzene         2.00         0.050 mg/kg         2.00         99.9         77.7-125         1.92         7.83           Total Xylenes         6.00         0.150 mg/kg         6.00         100         70.9-124         1.31         7.78	Benzene	2.13	0.050	mg/kg	2.00		106	79.5-124	1.42	6.5	
Total Xylenes 6.00 0.150 mg/kg 6.00 100 70.9-124 1.31 7.78	Toluene	1.93	0.050	mg/kg	2.00		96.3	75.5-127	1.95	7.02	
	Ethylbenzene	2.00	0.050	mg/kg	2.00		99.9	77.7-125	1.92	7.83	
Surrogate: 4-Bromofluorobenzene (PID)         0.0502         mg/kg         0.0500         100         72-148	Total Xylenes	6.00	0.150	mg/kg	6.00		100	70.9-124	1.31	7.78	
	Surrogate: 4-Bromofluorobenzene (PID)	0.0502		mg/kg	0.0500		100	72-148			

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TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241 Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Fax To: NONE

Reported: 06-Jul-17 11:46

### Petroleum Hydrocarbons by GC FID - Quality Control

### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Blank (7062906-BLK1)				Prepared & Anal	lyzed: 29-Jun-17			
GRO C6-C10	ND	10.0	mg/kg					
DRO >C10-C28	ND	10.0	mg/kg					
EXT DRO >C28-C35	ND	10.0	mg/kg					
EXT DRO >C28-C36	ND	10.0	mg/kg					
Total TPH C6-C28	ND	10.0	mg/kg					
Surrogate: 1-Chlorooctane	49.0		mg/kg	50.0	98.0	28.3-164		
Surrogate: 1-Chlorooctadecane	51.1		mg/kg	50.0	102	34.7-157		
LCS (7062906-BS1)				Prepared & Anal	lyzed: 29-Jun-17			
GRO C6-C10	205	10.0	mg/kg	200	103	76.6-119		
DRO >C10-C28	222	10.0	mg/kg	200	111	81.4-124		
Total TPH C6-C28	427	10.0	mg/kg	400	107	79.4-121		
Surrogate: 1-Chlorooctane	56.7		mg/kg	50.0	113	28.3-164		
Surrogate: 1-Chlorooctadecane	59.7		mg/kg	50.0	119	34.7-157		
LCS Dup (7062906-BSD1)				Prepared & Anal	lyzed: 29-Jun-17			
GRO C6-C10	210	10.0	mg/kg	200	105	76.6-119	2.25	7.94
DRO >C10-C28	228	10.0	mg/kg	200	114	81.4-124	2.84	9.83
Total TPH C6-C28	438	10.0	mg/kg	400	110	79.4-121	2.56	8.57
Surrogate: 1-Chlorooctane	58.0		mg/kg	50.0	116	28.3-164		
Surrogate: 1-Chlorooctadecane	62.8		mg/kg	50.0	126	34.7-157		

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%REC

Limits

RPD



### Analytical Results For:

TRINITY OILFIELD SERVICES & RENTALS, LLC

P. O. BOX 2587 HOBBS NM, 88241

Analyte

Project: MERIT 32 DM ST. COM #1H

Project Number: MEWBOURNE Project Manager: BEN ARGUIJO

Spike

Level

Source

Result

%REC

Fax To: NONE

Reported: 06-Jul-17 11:46

RPD

Limit

Notes

### Soluble (DI Water Extraction) - Quality Control

### **Green Analytical Laboratories**

Units

Reporting

Limit

Result

Batch B706277 - General Prep - Wet C	hem							
Blank (B706277-BLK1)			Prepared & Ana	alyzed: 30-Jun-17				
Chloride	ND	1.00 mg/kg wet						
LCS (B706277-BS1)			Prepared & Ana	alyzed: 30-Jun-17				
Chloride	238	10.0 mg/kg wet	250	95.0	85-115			
LCS Dup (B706277-BSD1)		Prepared & Analyzed: 30-Jun-17						
Chloride	239	10.0 mg/kg wet	250	95.4	85-115	0.433	20	

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### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

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

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

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### ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

	Trinity Oilfield Services & Rent									88	BH	L TO					ANA	LYS	IS I	REQU	JEST	
Project Manager:								P	.0.	#:												
Address: P.O. Bo	ox 2587							C	company: Me		Mewbourne Oil Co.											
City: Hobbs	State: NN	Zip	: 8	824	1			A	ttn			Zack Thom	nas							1		
Phone #: (575)39	90-7208 Fax #:		*****		-			A	dd	ress	:	P.O. Box	5270									
Project #:	Project Ow	ner:	Me	ewbo	ourn	e Oi	l Co	. C	ity:			Hobbs			_							
Project Name: M	erit 32 DM St. Com #1H	*****						S	tate	e: N	M	Zip: 8	88241	SM.	21B	300						
Project Location:					OCH PARTY OF	any and a second	-	P	hor	ne #	:	(575)393	-5905	801	(80)	de de						
Sampler Name: To	***************************************			2040.404				F	ax	#:		(575) 397	-6252	TPH (8015M)	BTEX (8021B)	Chloride (300)						
FOR LAB USE ONLY		T	Г		N	TAN	RIX		PI	RES	ERV	SAMPL	LING	F	E							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE OTHER	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME									
1	AH-1 @ 2.75'	G	1			х		1		X		6/27/17	1045	Х	X	Х		_	$\perp$	_		_
2	AH-3 @ 4'	G	1			Х	+	+	+	×		6/27/17	1235	Х	X	Х						$\pm$
		1	E				1	1	1	L												$\pm$
***************************************		+	$\vdash$	-			+	+	$\pm$	t	L							E				
		F	F				-	1	F	-				-				-	-	+		
			t				I	T	1	T	T	hall be limited to										

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and neceived by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, entitions or supersons arising out of or related to the performance of services hereunder by Cardinal mountless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: Received By:	Phone Result:  Yes  No Add'l Phone #: Fax Result:  Yes  No Add'l Fax #: REMARKS:
Relinquished By:	Date/29/17 Received By: Time: 46 Munara and Sex	Please e-mail results to zthomas@mewbourne.com & ben@trinityoilfieldservices.com
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