

Continue sampling on a

at

pre-approves

pre-approves

summarized

а

schedule

Review of 2020 Annual

satisfactory

semi-annual

minimum

sampling

forward

1.

2.

3.

4.

Groundwater Report: Content

OCD

OCD

Submit

than March 31,2022.

eliminating MW #3 from further

eliminating sulfate analysis from all

site monitor wells this point

activities completed and their results in a 2021 Annual Report.

Submittal to OCD expected no later

RICE Operating Company

112 West Taylor • Hobbs, New Mexico 88240 Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2021

Bradford Billings

Environmental Bureau, Oil Conservation Division New Mexico Energy, Minerals, & Natural Resources Department 1220 S. St. Francis Drive Santa Fe, New Mexico 87505

RE: 2020 Annual Groundwater Report Rice Operating Company – BD SWD System BD J-30 vent (1R426-217): UL/J, Sec. 30, T21S, R37E

Mr. Billings:

ROC is the service provider (agent) for the BD SWD System and has no ownership of any portion of the pipeline, well, or facility. The system is owned by a consortium of oil producers, System Parties, who provide all operating capital on a percentage ownership/usage basis.

Background and Previous Work

The site is located approximately 2.3 miles northwest of Eunice, New Mexico at UL/J, Sec. 30, T21S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 106 feet below ground surface (bgs).

In 2007, ROC initiated work on the former J-30 using a backhoe to form a 30x30x12-ft deep excavation intervals for both hydrocarbon and chloride. The representative samples were collected from the d sent to a commercial laboratory for analysis, resulting W hydrocarbon concentrations. The excavation w low ground surface (bgs). At 6-5 ft bgs, a 1 ft thick clay barrier was installed. The remaining backfill was blended with clean, imported soil and used to backfill the remainder of the excavation to ground surface and contoured to the surrounding area. On March 16th, 2007, the site was seeded with a blend of native vegetation. To further investigate the presence of chloride, two soil bores were drilled on April 18th, 2007. Soil samples were collected at regular intervals and field titrated for chlorides. Representative samples from each bore were sent to a commercial laboratory resulting in elevated chloride concentrations. Each bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on August 5th, 2008. A junction box disclosure report was submitted to NMOCD with all the 2009 junction box closures and disclosures.

tal on a percentage ownership/usage basis.
thwest of Eunice, New Mexico at UL/J, Sec. cation Map. Groundwater sampling at the sit nately 106 feet below ground surface (bgs).
0 vent junction box. The site was delineated
ion and soil samples were screened at regular
he excavated soil was blended on site and
excavation walls and excavation bottom and
ng in elevated chloride concentrations and lo
vas backfilled with the blended soil to 6 ft bel

.

An Investigation and Characterization Plan (ICP) was submitted to NMOCD on February 17th, 2015 and approved on February 20th, 2015. According to the ICP, nine soil bores were drilled to further delineate the vadose zone. Representative samples were collected from each bore and were sent to a commercial laboratory for analysis of chloride and hydrocarbon, resulting in elevated chloride concentrations. Each soil bore was plugged with bentonite to ground surface.

A Corrective Action Plan (CAP) was submitted and approved by NMOCD on August 12th, 2015. According to the NMOCD approved CAP, a 20-mil reinforced liner measuring 84x91-ft was installed and properly seated at 4.5 ft bgs. The site was backfilled and seeded with a blend of native vegetation. A CAP Report and Soil Closure Request detailing this work was submitted to NMOCD on August 24th, 2017. The report also requested monitoring wells installation. NMOCD approved this report and granted 'Soil Closure' on August 24th, 2017.

On December 11-12th, 2018, ROC installed two monitor wells. MW-3 was installed downgradient well and MW-1 was installed as a near-source monitoring well. On April 26th, 2019, an up-gradient monitor well (MW-2) was installed. Lithology soil samples were collected from each well at regular intervals. The wells were developed and have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,220 mg/L in MW-1, 52 mg/L in MW-2, and 52 mg/L in MW-3. BTEX concentrations remained below detectable limits since the wells were installed. In 2020, ROC received NMOCD approval to cease BTEX sampling, and approval to temporarily reduce the sampling interval to semi-annual. ROC will begin quarterly sampling in 2021.

Attached is the Appendix, which contains:

- 1. A Geographical Location Map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for each well at the site, and a graph showing recent laboratory results.
- 4. The laboratory analytical results for 2020.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 or Edward Hansen at (505) 920-4965 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

Kati Davis

Katie Davis Environmental Manager RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix

Received by OCD: 4/13/2021 3:17:29 PM

Geographical Location Map



Released to Imaging: 2/4/2022 1:34:14 PM



Released to Imaging: 2/4/2022 1:34:14 PM

ROC - BD J-30 vent (1R426-217) Unit Letter J, Section 30, T21S, R37E

мw	Depth to	Total	Well	Volume	Sample Date	CI TDS		Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
	Water	Depth	Volume	Purged	Sample Date	U	103	Delizelle	Toluelle	Benzene	Xylenes	Sunate	comments	
1	106.38	141.6	23	75	12/26/2018	248	664	<0.001	<0.001	<0.001	<0.003	157	Clear No odor	
1	106.51	141.6	23	75	2/26/2019	1,400	1,900	<0.001	<0.001	<0.001	<0.003	52	Clear No odor	
1	106.5	141.6	23	75	5/7/2019	1,080	2,120	<0.001	<0.001	<0.001	<0.003	65	Clear No odor	
1	106.5	141.6	23	75	8/21/2019	1,100	2,220	<0.001	<0.001	<0.001	<0.003	53	Clear No odor	
1	106.54	141.6	23	75	11/7/2019	1,000	2,000	<0.001	<0.001	<0.001	<0.003	47	Clear No odor	
1	106.47	141.6	22.8	75	2/25/2020	1,060	2,030	<0.001	<0.001	<0.001	<0.003	59	Clear No odor	
1	106.47	141.6	22.8	75	8/31/2020	1,220	2,400	XXX	XXX	XXX	XXX	92	Clear No odor	

MW	Depth to	Total	Well	Volume	Sample Date	CL	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
	Water	Depth	Volume	Purged	Sample Date	U	103	Бенгене	Toluelle	Benzene	Xylenes	Sunate		
2	107.52	120.05	2	6	5/7/2019	100	459	<0.001	<0.001	<0.001	<0.003	91	Clear No odor	
2	107.51	120.05	2	6	8/21/2019	56	400	<0.001	<0.001	<0.001	<0.003	74	Clear No odor	
2	107.55	120.05	2	6	11/7/2019	56	411	<0.001	<0.001	<0.001	<0.003	69	Clear No odor	
2	107.51	120.05	2	6	2/25/2020	52	454	<0.001	<0.001	<0.001	<0.003	81.8	Clear No odor	
2	107.5	120.05	2	3	8/31/2020	52	457	XXX	XXX	XXX	XXX	76.7	Clear No odor	

MW	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
	Water	Depth	Volume	Purged	Sample Date	C	103	Delizene	Toluelle	Benzene	Xylenes	Sunate	Comments	
3	106.38	110.38	0.6	3	12/27/2018	116	321	<0.001	<0.001	<0.001	<0.003	107	Clear No odor	
3	106.38	110.38	0.6	3	2/26/2019	136	478	<0.001	<0.001	<0.001	<0.003	86	Clear No odor	
3	106.38	110.38	0.6	3	5/7/2019	68	531	<0.001	<0.001	<0.001	<0.003	83	Clear No odor	
3	106.37	110.38	0.6	3	8/21/2019	96	536	<0.001	<0.001	<0.001	<0.003	74	Clear No odor	
3	106.41	110.38	0.6	3	11/7/2019	96	547	<0.001	<0.001	<0.001	<0.003	78	Clear No odor	
3	106.34	110.3	0.6	3	2/25/2020	88	459	<0.001	<0.001	<0.001	<0.003	85.7	Clear No odor	
3	106.33	110.3	0.6	3	8/31/2020	52	452	XXX	XXX	XXX	XXX	72.7	Clear No odor	





March 05, 2020

KATIE JONES Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 02/28/20 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-19-12. 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:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	02/28/2020	Sampling Date:	02/25/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H000651-01)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	< 0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	<0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1060	4.00	03/02/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	59.0	10.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: GM					
Analyte	Deville	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
	Result	Reporting Limit	Analyzeu	Method Dialik	03	70 Recovery	The value qe	NI D	Quanner

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	02/28/2020	Sampling Date:	02/25/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

Sample ID: MONITOR WELL #2 (H000651-02)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	<0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	< 0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	6 58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	52.0	4.00	03/02/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	81.8	25.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	454	5.00	03/03/2020	ND	526	105	500	2.86	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	02/28/2020	Sampling Date:	02/25/2020
Reported:	03/05/2020	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H000651-03)

BTEX 8021B	mg/	L	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.001	0.001	03/04/2020	ND	0.020	101	0.0200	1.22	
Toluene*	< 0.001	0.001	03/04/2020	ND	0.020	98.5	0.0200	0.0915	
Ethylbenzene*	< 0.001	0.001	03/04/2020	ND	0.020	97.6	0.0200	0.937	
Total Xylenes*	<0.003	0.003	03/04/2020	ND	0.058	95.9	0.0600	1.18	
Total BTEX	<0.006	0.006	03/04/2020	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	58.2-13	3						
Chloride, SM4500Cl-B	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	88.0	4.00	03/02/2020	ND	104	104	100	3.92	
Sulfate 375.4	mg/	L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	85.7	25.0	03/02/2020	ND	20.5	103	20.0	0.342	
TDS 160.1	mg/	L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	459	5.00	03/03/2020	ND	526	105	500	2.86	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 6			Page <u>1 of 1</u>											
101 East Marland - Hobbs, NM 88240 Tel (575) 393-2326	nal Labora	atories, Inc.	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST											
Fax (575) 393-2476	BILL TO Company:	PO#	LAB Order ID #											
RICE Operating Company	RICE Operating C		ANALYSIS REQUEST											
Project Manager:	Address:	(Street, City, Zip)	(Circle or Specify Method No.)											
Katie Jones	122 W Taylor Street ~ Ho													
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240	Phone#: (575) 393-9174	Fax#: (575)397-1471												
Phone #:	Fax #:	(010)007 1411												
(575) 393-9174	(575) 397-1471													
Project #: Project Name: BD J-30 Vent	//	1												
Project Location:	Sampler Sign	nature: Rozanne Johnson (575)631-9310	8 10 10 10 10 10 10 10 1											
T21S R37E Sec30 J~ Lea County New Mex		m	/ TX1005 E Ba Cd Cr Pb Ba Cd Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb Cr Pb C											
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H000 651 LAB #	(G)rab or (C)omp # CONTAINERS WATER SOIL AIR SLUDGE													
FIELD CODE	U AIN	iter H 0020)	2218 2112 2112 2112 212 212 212 212 212											
(LAB USE)	(G)rab or ((# CONTA WATER SOIL AIR SLUDGE	HCL (2 40ml voa) HNO3 NaHSO4 H ₂ SO4 H ₂ SO4 ICE (1-1Liter HDPE) ICE (1-1Liter HDPE) NONE DATE (2020) TIME	MTBE 8021B/602 BTEX 8021B/602 PAH 8270C Total Metals Ag At TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Pesticides RCI GC/MS Vol. 8260 GC/MS Vol. 8260 GC/MS Vol. 8260 BOD, TSS, PH Molsture Content Molsture Content Molsture Content Cations (Cl, SO4, Sulfates Chlorides											
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Relinquished by Date: Time:	Received By: (Laboratory S	taff) / Date: Time:	REMARKS:											
Relinquished by: Date: Time: Delivered By: (Circle One)			Email Results: kjones@riceswd.com											
	Sample Condition	CHECKED BY:	rozanne11@windstream.net											
Somebre LIPS Rus Othor	Yes Yes	(Initials)												
Sampler - UPS - Bus - Other:	No No	70.												
Necewed (



September 08, 2020

KATIE JONES Rice Operating Company 112 W. Taylor

Hobbs, NM 88240

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 09/01/20 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H002327-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1220	4.00	09/02/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	92.0	25.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2400	5.00	09/04/2020	ND	832	83.2	1000	0.464	

Sample ID: MONITOR WELL #2 (H002327-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	52.0	4.00	09/02/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	76.7	10.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	457	5.00	09/04/2020	ND	832	83.2	1000	0.464	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Rice Operating Company KATIE JONES 112 W. Taylor Hobbs NM, 88240 Fax To: (575) 397-1471

Received:	09/01/2020	Sampling Date:	08/31/2020
Reported:	09/08/2020	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H002327-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	52.0	4.00	09/02/2020	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	72.7	10.0	09/03/2020	ND	22.3	112	20.0	2.48	
TDS 160.1	mg,	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	452	5.00	09/04/2020	ND	832	83.2	1000	0.464	

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

East Marland - Hobbs, NM 88240 Tel (575) 393-2326 For (757) 203 - 0475		<u>a</u>		ra	4		·ic			In					Cł	IAI	N-0)F-(CU	ST	DD.	Y A	ND	A	IAV				1 :QU	of IES	1 T	
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Katie Jones	122 W	Taylor	Street	- Hot	obs, N	New			1.18		<i>,</i>																					
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ect Location: □21S R37E Sec30 J~ Lea County New Mexico		S	ample	er Sign	ature	h	Rozar	ine J	bhns	on (5	575)631	-9310			Ext	10	a da						5						33			nrs
213 K37E Sec30 J~ Lea County New Mexico	1	1		1	1	P	RES	ERV	ATIV	/E	1		-		100	C							C/62					0	Э Ч			24 Hours
007377			MAT	RIX			ME	тне	D	_	SAM	PLING			XT/S		Ba (s			/624	8270		808			Na, K)	03	olids		5
FIELD CODE	# CONTAINERS	WATER	SOIL	SLUDGE		HCL (2 40ml VOA)	HNO ₃	H ₅ SO ₄	ICE (1-1Liter HDPE)	NONE	DATE (2020)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	TCLP Metals Ag As Ba Cd Cr Pb Se Hg 00100/200.	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	Cations (Ca, Mg, N	Anions (CI, SO4, CO3, HCO3)	Total Dissolved Solids	Chlorides	Turn Around Time
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Z Monitor Well #2		x	+	+		+	+	+	1	+	8/31 8/31		-	+	+	+	+	+	\vdash		-		-	_	-	\square		+	-	x x x x	-	
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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

Action 23949

CONDITIONS									
Operator:	OGRID:								
RICE OPERATING COMPANY	19174								
122 W Taylor	Action Number:								
Hobbs, NM 88240	23949								
	Action Type:								
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)								

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2020 Annual Groundwater Report: Content satisfactory 1. Continue sampling on a semi-annual schedule at a minimum 2. OCD pre-approves eliminating MW #3 from further sampling 3. OCD pre-approves eliminating sulfate analysis from all site monitor wells this point forward 4. Submit summarized activities completed and their results in a 2021 Annual Report. Submittal to OCD expected no later than March 31,2022.	2/4/2022