L Peter Galusky, Jr PE

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April 1, 2022

Bradford Billings

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

RE: 2021 Annual Report

Rice Operating Company
Vacuum N-6-1 Jct, UL N, Sec 6, T18S, R35E
OCD Case Number 1R0479

Sent by E-mail

Mr. Billings:

REVIEWED

By Nelson Velez at 10:47 am, Dec 19, 2022

Review of 2021 Annual Groundwater Report: **Content satisfactory**

- 1. Continue sampling on a quarterly schedule
- 2. Continue groundwater recovery
- 3. Submit next annual report no later than March 31, 2023.

This letter summarizes progress made over the past calendar year pursuant to the NMOCD approved Corrective Action Plan for this site (Appendix - Figures 1 & 2), which is operated by Rice Operating Company (ROC).

ROC submitted a Vadose Zone Corrective Action Plan (CAP) Update to NMOCD on November 8th, 2013, and approved on November 20th, 2013, which entailed the removal of high-chloride soils to 3 ft bgs and the installation of an impermeable, 20-mil reinforced synthetic liner to reduce the potential downward migration of residual soil chlorides (Appendix - Figure 2). This work was completed in 2014 and is summarized in the Vadose Zone CAP Report & Soil Closure Request dated and submitted to NMOCD on August 12th, 2014. NMOCD approved the report and granted 'Soil Closure' on September 18th, 2014.

ROC continued to monitor groundwater chloride concentrations and to remove chloride-laden groundwater during 2021. Please see the Appendix, Figure 3 and Tables 1 & 2. In brief,

- Approximately 43,173 barrels of chloride-affected groundwater have been removed from the source area from 2008 through 2021. The removed groundwater was hauled to an off-site location and utilized for a beneficial use.
- Average annual groundwater chloride concentrations in the near-source monitor well (MW-1) dropped from 21,700 mg/l in 2006 to 5,100 mg/l in 2014 (Figure 3, Tables 1&2a). This well was replaced in summer 2014 with a new monitor well, MW-1R, after being damaged during the installation of the sub-surface soil liner. Groundwater chloride concentrations in MW-1R averaged 560 mg/l in 2021, down from 684 mg/l in 2020.

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- Groundwater chloride concentrations in up and down gradient monitor wells (MW-2, MW-3 and MW-4) have continued to remain low throughout 2021 with concentrations at or below 60 mg/l.
- Average annual groundwater chloride concentrations in the (down-gradient) recovery well (RW-1) rose slightly from 530 mg/l in 2020 to 560 mg/l in 2021.

Water-soluble petroleum hydrocarbons (BTEX) were not detected in any of the groundwater samples taken in 2020 nor in any prior years. In 2020, NMOCD granted approval to cease BTEX sampling and analysis.

ROC will continue groundwater recovery and quarterly sampling in 2022.

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

Please contact either Katie Jones of Rice Operating Company or me if you have any questions or need additional information.

Thank you.

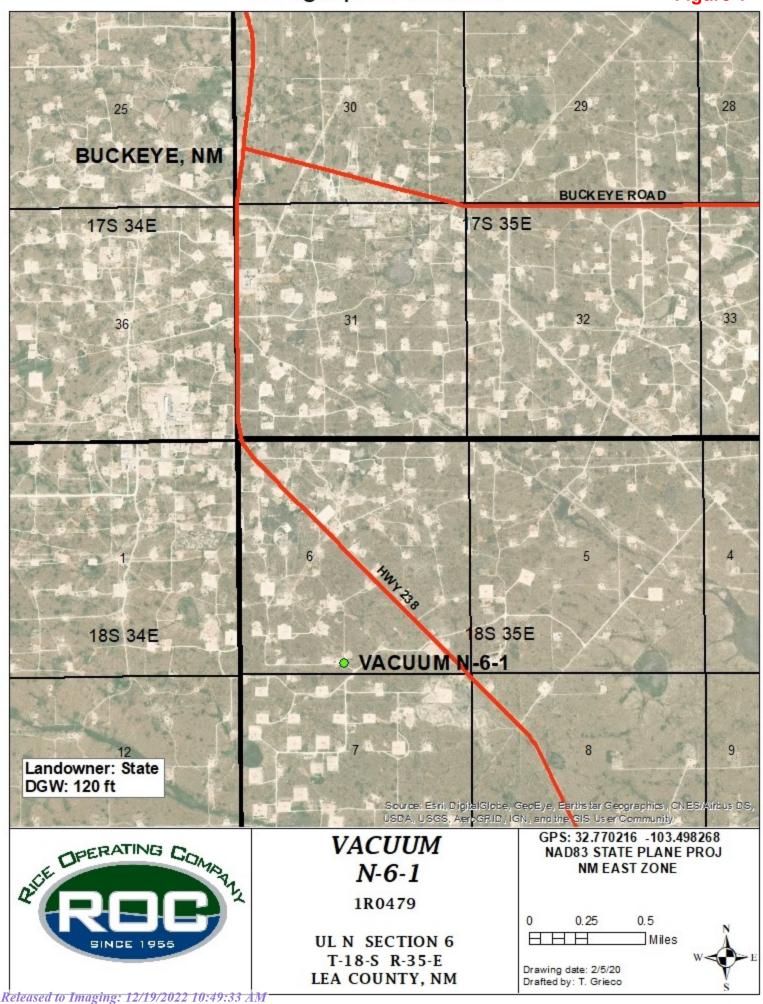
Sincerely,

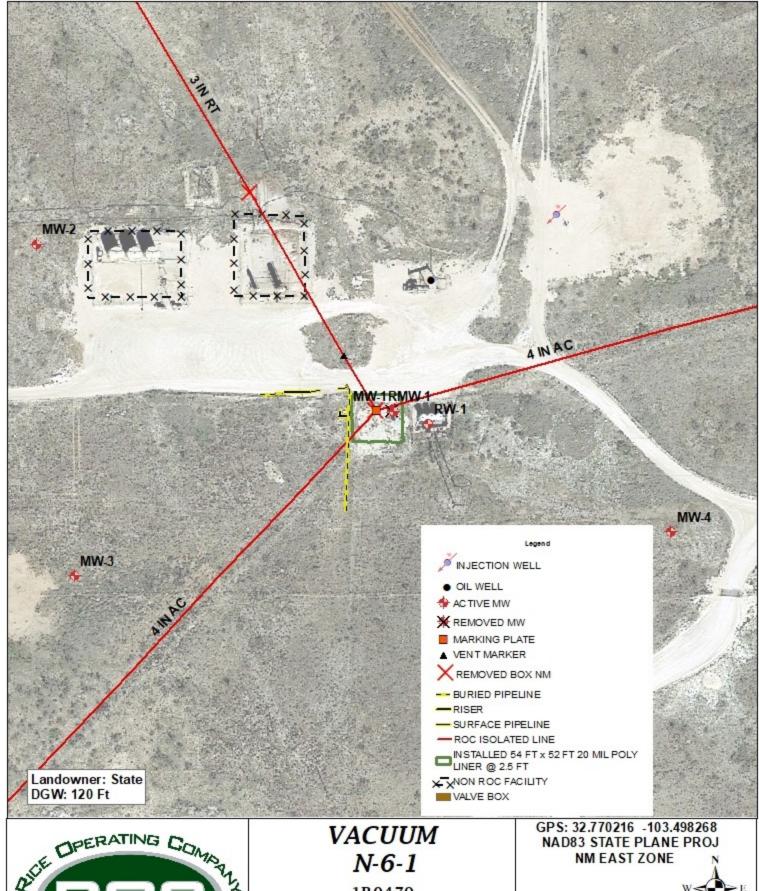
L. Peter Galusky, Jr. P.E.

NM Prof. Engineer No. 22561

Copy: Rice Operating Company Attachments: ... as noted, above.

L Peter Galusky, Jr PhD

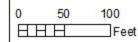




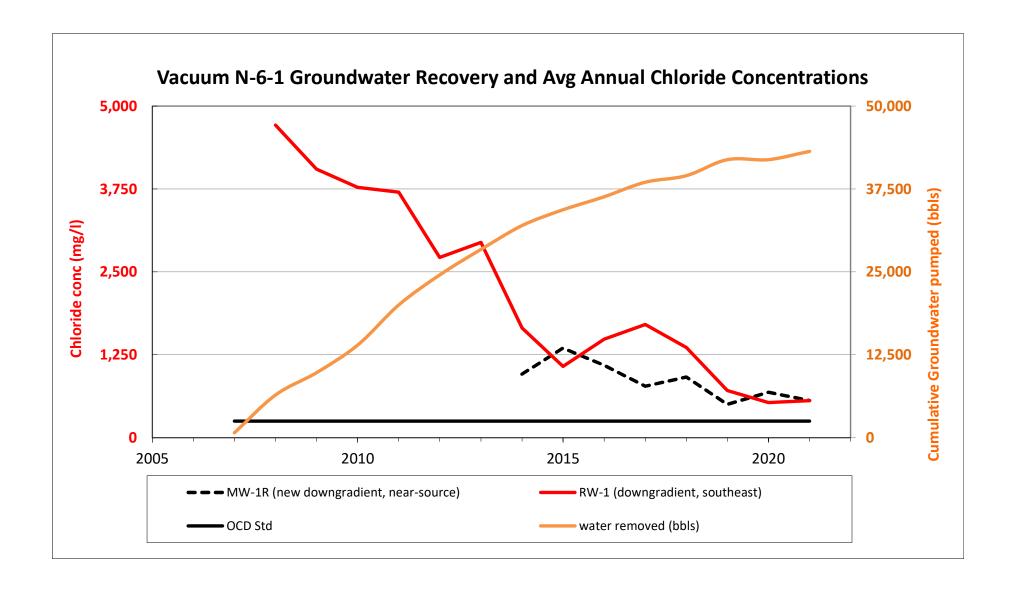


1R0479

UL/N SEC 6 T-18-S R-35-E LEA COUNTY, NM



Drawing date: 2/5/20 Drafted by: T. Grieco



	Annual Av	erage Groundw	vater Chloride	e Concentrati	i ons (mg/l)	
	MW-1	MW-1R (new	MW-2	MW-3	MW-4	RW-1
	(downgradient,	downgradient,	(upgradient	(upgradient,	(downgradient,	(downgradient,
date	near source)	near-source)	northwest)	southwest)	southeast)	southeast)
2007	16,898		25	24	42	
2008	14,425		32	27	41	4,713
2009	13,200		30	27	34	4,050
2010	10,375		27	23	38	3,775
2011	8,433		27	25	37	3,700
2012	5,700		31	24	38	2,718
2013	4,295		30	28	31	2,945
2014	5,100	960	64	28	37	1,653
2015		1,350	37	27	30	1,075
2016		1,093	47	24	43	1,485
2017		776	39	34	37	1,708
2018		915	51	37	41	1,360
2019		503	33	34	32	713
2020		684	32	28	50	530
2021		560	59	33	42	560



ROC - Vacuum N-6-1 (1R0479)

Groundwater Analyte Concentrations (mg/l)

Depth to Total Water Depth Volume Purged Date Cl TDS Benzene Toluene Benzene Xylenes Sulfate Comments	Groun	iuwater An	aryte ot	Jiiceiitiat	ions (mg/	1)								
1	MW						CI	TDS	Benzene	Toluene			Sulfate	Comments
1														
1							,							
1	1								<0.001	<0.001	<0.001	<0.001		
1	1						18,500	35,900	<0.001	<0.001	<0.001			
1	1	117.0	125.1	1.3	5.0	9/25/2007	15,795	27,714	<0.002	<0.002	<0.002	<0.006		
1 117.2 125.1 1.3 5.0 4/24/2008 14,300 24,800 <0.001	1	117.0	125.1	1.3	5.0	10/17/2007	16,400	27,927	<0.001	0.004	<0.001	<0.001	143	Silt to clear Slight odor
1 117.7 125.1 1.2 5.0 8/7/2008 14,000 24,900 <0.001 <0.001 <0.003 158 Silt to clear Slight odor 1 117.6 125.1 1.2 5.0 10/30/2008 14,000 28,200 <0.001	1	117.0	125.1	1.3			15,400	28,300	<0.001	<0.001	<0.001	<0.003	148	Silt to clear Slight odor
1	1	117.2	125.1	1.3			14,300	24,800	<0.001	<0.001	<0.001	<0.003	128	Silt to clear Slight odor
1	1	117.7	125.1	1.2	5.0	8/7/2008	14,000	24,900	<0.001	<0.001	<0.001	<0.003	158	Silt to clear Slight odor
1	1	117.6	125.1	1.2	5.0	10/30/2008	14,000	28,200	<0.001	<0.001	<0.001	<0.003	126	Silt to clear Slight odor
1 118.1 125.0 1.1 5.0 8/7/2009 12,800 21,200 <0.001	1	117.8	125.0	1.1	5.0	1/23/2009	13,600	24,200	<0.001	<0.001	<0.001	<0.003	109	Silt to clear Slight odor
1 118.4 125.0 1.0 5.0 10/22/2009 12,200 19,700 <0.001	1	118.1	125.0	1.1	5.0	4/29/2009	14,200	22,800	<0.001	<0.001	<0.001	<0.003	110	Silt to clear Slight odor
1 118.3 125.0 1.1 5.0 2/11/2010 12,100 20,700 <0.001	1	118.1	125.0	1.1	5.0	8/7/2009	12,800	21,200	<0.001	<0.001	<0.001	<0.003	102	Silt to clear Slight odor
1 118.8 125.0 1.0 5.0 4/26/2010 10,700 18,400 <0.001	1	118.4	125.0	1.0	5.0	10/22/2009	12,200	19,700	<0.001	<0.001	<0.001	<0.003	76	Silt to clear Slight odor
1 118.6 125.0 1.0 5.0 8/5/2010 9,800 15,600 <0.001	1	118.3	125.0	1.1	5.0	2/11/2010	12,100	20,700	<0.001	<0.001	<0.001	<0.003	94	Silt to clear Slight odor
1 119.0 125.0 1.0 5.0 10/28/2010 8,900 16,800 <0.001	1	118.8	125.0	1.0	5.0	4/26/2010	10,700	18,400	<0.001	<0.001	<0.001	<0.003	96	Silt to clear Slight odor
1 118.9 125.2 1.0 5.0 2/21/2011 7,730 13,200 <0.001	1	118.6	125.0	1.0	5.0	8/5/2010	9,800	15,600	<0.001	<0.001	<0.001	<0.003	79	Silt to clear Slight odor
1 119.4 125.2 0.9 5.0 6/6/2011 9,800 13,700 <0.001	1	119.0	125.0	1.0	5.0	10/28/2010	8,900	16,800	<0.001	<0.001	<0.001	<0.003	82	Silt to clear Slight odor
1 120.2 125.2 0.8 5.0 9/2/2011 9,300 11,800 <0.001	1	118.9	125.2	1.0	5.0	2/21/2011	7,730	13,200	<0.001	0.001	<0.001	<0.003	60	Silt to clear Slight odor
1 119.7 125.2 0.9 5.0 12/4/2011 6,900 11,500 <0.001	1	119.4	125.2	0.9	5.0	6/6/2011	9,800	13,700	<0.001	<0.001	<0.001	<0.003	78	Silt to clear Slight odor
1 119.8 125.2 0.9 5.0 2/24/2012 6,000 10,400 <0.001	1	120.2	125.2	0.8	5.0	9/2/2011	9,300	11,800	<0.001	<0.001	<0.001	<0.003	95	Silt to clear Slight odor
1 119.8 125.2 0.9 5.0 6/1/2012 5,700 10,100 <0.001	1	119.7	125.2	0.9	5.0	12/4/2011	6,900	11,500	<0.001	<0.001	<0.001	<0.003	81	Silt to clear Slight odor
1 119.8 125.2 0.9 5.0 8/31/2012 5,700 9,330 <0.001	1	119.8	125.2	0.9	5.0	2/24/2012	6,000	10,400	<0.001	<0.001	<0.001	<0.003	78	Silt to clear Slight odor
1 120.0 125.2 0.8 5.0 11/16/2012 5,400 9,240 <0.001 <0.001 <0.003 72 Silt to clear Slight odor 1 120.0 125.2 0.8 5.0 2/14/2013 4,850 8,110 <0.001	1	119.8	125.2	0.9	5.0	6/1/2012	5,700	10,100	<0.001	<0.001	<0.001	<0.003	77	Silt to clear Slight odor
1 120.0 125.2 0.8 5.0 11/16/2012 5,400 9,240 <0.001	1	119.8	125.2	0.9	5.0	8/31/2012	5,700	9,330	<0.001	<0.001	<0.001	<0.003	66	Silt to clear Slight odor
1 120.0 125.2 0.8 5.0 2/14/2013 4,850 8,110 <0.001	1	120.0	125.2	0.8	5.0	11/16/2012	5,400	9,240	<0.001		<0.001	<0.003		
1 120.4 125.2 0.8 5.0 5/23/2013 5,100 8,230 <0.001	1	120.0	125.2	0.8						<0.001	<0.001	<0.003		
1 120.6 125.2 0.7 5.0 9/4/2013 4,100 7,160 <0.001	1													
1 120.6 125.2 0.7 5.0 11/13/2013 3,130 6,910 <0.001 <0.001 <0.001 <0.003 61 Silt to clear Slight odor	1													
	1			0.7				<u> </u>						
	1													



Groun	dwater An	alyte Co	oncentrat	ions (mg/	- l)	MW-1R	installed	7/17/2014					
1R	XXX	XXX	0.0	Running	8/22/2014	1,300	2,770	<0.001	<0.001	<0.001	<0.003	46	Silt to clear Slight odor
1R	XXX	168.3	0.0	100.0	12/13/2014	620	1,360	<0.001	<0.001	<0.001	<0.003	37	Silt to clear Slight odor
1R	XXX	168.3	0.0	100.0	3/9/2015	2,270	5,920	<0.001	<0.001	<0.001	<0.003	180	Silt to clear Slight odor
1R	XXX	168.0	0.0	Running	6/8/2015	1,110	2,670	<0.001	<0.001	<0.001	<0.003	48	Silt to clear Slight odor
1R	XXX	168.0	0.0	Running	8/25/2015	1,100	1,970	<0.001	<0.001	<0.001	<0.003	36	Silt to clear Slight odor
1R	XXX	168.0	0.0	Running	11/17/2015	920	1,780	<0.001	<0.001	<0.001	<0.003	40	Silt to clear Slight odor
1R	XXX	168.3	XXX	100.0	3/21/2016	1,300	2,880	<0.001	<0.001	<0.001	<0.003	209	Silt to clear Slight odor
1R	XXX	168.3			6/3/2016	1,300	2,750	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3			9/21/2016	710	1,500	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3			11/28/2016	1,060	2,040	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3			3/8/2017	1,340	2,790	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3			6/8/2017	32	320	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3		Running	9/20/2017	570	1,470	<0.001	<0.001	<0.001	<0.003	42	Silt to clear Slight odor
1R	XXX	168.3	XXX	100.0	12/11/2017	1,160	2,310	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.0			3/13/2018	1,520	2,830	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.0	XXX		6/8/2018	570	1,190	<0.001	<0.001	<0.001	<0.003	39	Silt to clear Slight odor
1R	XXX	168.3		Running	9/17/2018	510	1030	<0.001	<0.001	<0.001	<0.003	40	Silt to clear Slight odor
1R	XXX	168.0	XXX	100.0	11/29/2018	1,060	1,760	<0.001	<0.001	<0.001	<0.003	53	Silt to clear Slight odor
1R	XXX	168.3			3/19/2019	730	1,540	<0.001	<0.001	<0.001	<0.003	70	Silt to clear Slight odor
1R	XXX	168.3			6/14/2019	450	1,030	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.3	XXX	Running	9/18/2019	428	966	<0.001	<0.001	<0.001	<0.003	40	Silt to clear Slight odor
1R	XXX	168.3			12/3/2019	404	828	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.0			3/23/2020	860	1,650	<0.001	<0.001	<0.001	<0.003		Silt to clear Slight odor
1R	XXX	168.0			9/22/2020	508	1,100	XXX	XXX	XXX	XXX		Silt to clear Slight odor
1R	XXX	168.0			3/19/2021	440	1,030	XXX	XXX	XXX	XXX		Silt to clear Slight odor
1R	XXX	168.0			6/18/2021	780	1,580	XXX	XXX	XXX	XXX		Silt to clear Slight odor
1R	XXX	168.0		Running	9/20/2021	320	840	XXX	XXX	XXX	XXX	45	Silt to clear Slight odor
1R	XXX	168.0	XXX	100.0	11/20/2021	700	1,520	XXX	XXX	XXX	XXX	56	Silt to clear Slight odor

	Depth to	Total	Well	Volume	Sample			_		Ethyl	Total		
MW	Water	Depth		Purged		CI	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
2	117.3	125.8	1.4	10.0	10/18/2006	20	308	j[0.000837]	<0.001	<0.001	<0.001	33	Clear
2	117.6	126.9	1.5	8.0	3/7/2007	21	278	<0.001	<0.001	<0.001	<0.001	31	Sand to clear No odor
2	117.6	126.9	1.5	2.0	5/29/2007	24	296	<0.001	<0.001	<0.001	<0.001	34	Sand to clear No odor
2	117.9	126.9	1.4	6.0	9/25/2007	24	319	<0.002	<0.002	<0.002	<0.006	38	Sand to clear No odor
2	117.9	126.9	1.4	6.0	10/17/2007	28	289	<0.001	0.005	<0.001	0.004	38	Sand to clear No odor
2	118.0	126.6	1.4	6.0	1/31/2008	28	325	<0.001	<0.001	<0.001	<0.003	36	Sand to clear No odor
2	118.1	126.6	1.4	6.0	4/24/2008	28	286	<0.001	<0.001	<0.001	<0.003	31	Sand to clear No odor
2	118.4	126.6	1.3	6.0	8/7/2008	32	324	<0.001	<0.001	<0.001	<0.003	48	Sand to clear No odor
2	118.5	126.6	1.3	6.0	10/30/2008	40	342	<0.001	<0.001	<0.001	<0.003	47	Sand to clear No odor
2	118.7	126.6	1.3	6.0	1/23/2009	36	365	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
2	118.8	126.6	1.2	6.0	4/29/2009	24	346	<0.001	<0.001	<0.001	<0.003	34	Sand to clear No odor
2	119.0	126.6	1.2	6.0	8/7/2009	36	24	<0.001	<0.001	<0.001	<0.003	302	Silt to clear No odor
2	119.1	126.6	1.2	6.0	10/22/2009	24	314	<0.001	<0.001	<0.001	<0.003	33	Sand to clear No odor
2	119.5	126.5	1.1	6.0	4/26/2010	28	324	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
2	119.3	126.5	1.2	6.0	2/11/2010	28	343	<0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
2	119.6	126.5	1.1	6.0	8/5/2010	28	316	<0.001	<0.001	<0.001	<0.003	35	Sand to clear No odor
2	119.7	126.5	1.1	6.0	10/28/2010	24	336	<0.001	<0.001	<0.001	<0.003	39	Sand to clear No odor
2	120.0	127.0	1.1	6.0	2/21/2011	24	311	<0.001	<0.001	<0.001	<0.003	35	Sand to clear No odor
2	120.1	127.0	1.1	6.0	6/6/2011	28	309	<0.001	<0.001	<0.001	<0.003	39	Sand to clear No odor
2	120.3	127.0	1.1	6.0	9/2/2011	32	270	<0.001	<0.001	<0.001	<0.003	49	Sand to clear No odor
2	120.5	127.0	1.0	6.0	12/4/2011	24	303	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
2	120.6	127.0	1.0	6.0	2/24/2012	24	343	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
2	120.7	127.0	1.0	6.0	6/1/2012	32	311	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
2	120.9	127.0	1.0	6.0	8/31/2012	40	320	<0.001	<0.001	<0.001	<0.003	36	Sand to clear No odor
2	121.1	127.0	0.9	6.0	11/16/2012	28	303	<0.001	<0.001	<0.001	<0.003	30	Sand to clear No odor
2	121.1	127.0	0.9	6.0	2/14/2013	36	326	<0.001	<0.001	<0.001	<0.003	56	Sand to clear No odor
2	121.3	127.0	0.9		5/23/2013	24	255	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
2	121.5	127.0	0.9	6.0	9/4/2013	28	290	<0.001	<0.001	<0.001	<0.003	33	Sand to clear No odor
2	121.5	127.0	0.9	6.0	11/13/2013	32	300	<0.001	<0.001	<0.001	<0.003	47	Sand to clear No odor
2	121.7	127.0	0.9		3/14/2014	68	336	<0.001	<0.001	<0.001	<0.003	37	Sand to clear No odor
2	121.8	127.0	0.8		6/24/2014	60	368	<0.001	<0.001	<0.001	<0.003	58	Sand to clear No odor
2	121.9	127.0	0.8		8/22/2014	60	426	<0.001	<0.001	<0.001	<0.003	32	Sand to clear No odor
2	121.3	127.0	0.9	6.0		68	370	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
2	122.0	127.0	0.8		3/9/2015	24	284	<0.001	<0.001	<0.001	<0.003	27	1
2	122.1	127.0	0.8	6.0	6/8/2015	48	276	<0.001	<0.001	<0.001	<0.003	34	Sand to clear No odor
2	122.3	127.0	4.7	6.0	8/25/2015	36	390	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
2	122.4	127.0	0.7	6.0	11/17/2015	40	356	<0.001	<0.001	<0.001	<0.003	44	Sand to clear No odor
2	122.4	127.0	0.7	6.0	3/21/2016	60	362	<0.001	<0.001	<0.001	<0.003	39	Sand to clear No odor

2	122.5	127.0	0.7	6.0 6/	/3/2016	44	320	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
2	123.0	127.0	0.6	6.0 9/	/21/2016	28	288	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
2	123.0	127.0	0.6	6.0 11	1/28/2016	56	376	<0.001	<0.001	<0.001	<0.003	46	Sand to clear No odor
2	123.2	127.0	0.6	5.0 3/	/8/2017	32	320	< 0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
2	123.3	127.0	0.6	5.0 6/	/8/2017	36	332	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
2	123.2	127.0	0.6	6.0 9/	/20/2017	32	340	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
2	123.2	127.0	0.6	6.0 12	2/11/2017	56	396	<0.001	<0.001	<0.001	<0.003	54	Sand to clear No odor
2	123.4	127.0	0.6	5.0 3/	/13/2018	80	386	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
2	123.6	127.0	0.5	5.0 6/	/8/2018	64	312	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
2	123.7	127.0	0.5	5.0 9/	/17/2018	32	250	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
2	123.8	127.0	0.5		1/29/2018	28	299	<0.001	<0.001	<0.001	<0.003	41	Sand to clear No odor
2	123.9	127.0	0.5		/19/2019	44	338	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
2	123.8	127.0	0.5		/14/2019	28	330	<0.001	<0.001	<0.001	<0.003	44	Sand to clear No odor
2	124.0	127.0	0.5		/18/2019	28	266	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
2	124.2	127.0	0.5	3.0 12	2/3/2019	32	311	< 0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
2	124.4	127.0	0.4	3.0 3/	/23/2020	32	281	< 0.001	<0.001	<0.001	<0.003	50	Sand to clear No odor
2	124.6	127.0	0.4	3.0 9/	/22/2020	32	267	XXX	XXX	XXX	XXX	43	Sand to clear No odor
2	124.8	127.0	0.4	3.0 3/	/19/2021	48	338	XXX	XXX	XXX	XXX	71	Sand to clear No odor
2	125.0	127.0	0.4	3.0 6/	/18/2021	28	264	XXX	XXX	XXX	XXX	37	Sand to clear No odor
2	125.2	127.0	0.3	3.0 9/	/20/2021	68	373	XXX	XXX	XXX	XXX	38	Sand to clear No odor
2	125.2	127.0	0.4	3.0 11	1/20/2021	92	392	XXX	XXX	XXX	XXX	40	Sand to clear No odor

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MW	Depth to	Total	Well		Sample	CI	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
	Water	Depth	Volume	Purged						Benzene	Xylenes		
3	117.1	129.0	1.9		10/18/2006	20	342	<0.001	<0.001	<0.001	<0.001		Clear
3	117.4	127.6	1.6		3/7/2007	20	236	<0.001	<0.001	<0.001	<0.001		Sand to clear No odor
3	117.4	127.6	1.6		5/29/2007	24	290	<0.001	<0.001	<0.001	<0.001		Sand to clear No odor
3	117.7	127.6	1.6		9/25/2007	24	332	<0.002	<0.002	<0.002	<0.006	41	Sand to clear No odor
3	117.8	127.6	1.6		10/17/2007	24	281	<0.001	0.004	<0.001	0.004		Sand to clear No odor
3	117.9	127.6	1.6		1/31/2008	24	291	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.0	127.6	1.5		4/24/2008	24	306	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.2	127.6	1.5	6.0	8/7/2008	24	264	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.3	127.6	1.5		10/30/2008	36	325	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.5	127.5	1.4		1/23/2009	36	328	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.5	127.5	1.4		4/29/2009	24	229	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	118.8	127.5	1.4	6.0	8/7/2009	24	313	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
3	119.0	127.5	1.4	6.0	10/22/2009	24	319	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor
3	119.4	127.6	1.3	6.0	4/26/2010	24	312	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
3	119.1	127.6	1.4	6.0	2/11/2010	24	297	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
3	119.4	127.6	1.3	6.0	8/5/2010	24	257	<0.001	<0.001	<0.001	<0.003	34	Sand to clear No odor
3	119.6	127.6	1.3	6.0	10/28/2010	20	289	<0.001	<0.001	<0.001	<0.003	33	Sand to clear No odor
3	119.2	127.7	1.4		2/21/2011	24	294	<0.001	<0.001	<0.001	<0.003	34	Sand to clear No odor
3	119.9	127.7	1.2	6.0	6/6/2011	32	291	<0.001	<0.001	<0.001	<0.003	41	Sand to clear No odor
3	120.2	127.7	1.2		9/2/2011	20	263	<0.001	<0.001	<0.001	<0.003	46	Sand to clear No odor
3	120.4	127.7	1.2	6.0	12/4/2011	24	275	<0.001	<0.001	<0.001	<0.003	41	Sand to clear No odor
3	120.4	127.4	1.2	6.0	2/24/2012	24	294	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
3	120.5	127.7	1.1	6.0	6/1/2012	20	307	<0.001	<0.001	<0.001	<0.003	32	Sand to clear No odor
3	120.8	127.7	1.1	6.0	8/31/2012	28	289	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
3	120.8	127.7	1.1	6.0	11/16/2012	24	296	<0.001	<0.001	<0.001	<0.003	32	Sand to clear No odor
3	120.9	127.7	1.1	6.0	2/14/2013	28	278	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
3	121.0	127.7	1.1	6.0	5/23/2013	28	287	<0.001	<0.001	<0.001	<0.003	44	Sand to clear No odor
3	121.3	127.7	1.0	6.0	9/4/2013	24	305	<0.001	<0.001	<0.001	<0.003	35	Sand to clear No odor
3	121.3	127.7	1.0	6.0	11/13/2013	32	316	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
3	121.5	127.7	1.0		3/14/2014	40	138	<0.001	<0.001	<0.001	<0.003	47	Sand to clear No odor
3	121.7	127.7	1.0	6.0	6/24/2014	24	286	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
3	121.8	127.7	0.9	6.0	8/22/2014	24	300	<0.001	<0.001	<0.001	<0.003	34	Silt to clear No odor
3	121.2	127.7	1.0		12/12/2014	24	266	<0.001	<0.001	<0.001	<0.003	33	Sand to clear No odor
3	122.0	127.7	0.9	6.0	3/9/2015	24	296	<0.001	<0.001	<0.001	<0.003	30	Sand to clear No odor
3	122.1	127.7	0.9		6/8/2015	28	266	<0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
3	122.2	127.7	0.9	6.0	8/25/2015	28	270	<0.001	<0.001	<0.001	<0.003	26	Sand to clear No odor
3	122.4	127.7	0.9	6.0	11/17/2015	28	330	<0.001	<0.001	<0.001	<0.003	37	Sand to clear No odor
3	122.4	127.7	0.8	6.0	3/21/2016	28	272	<0.001	<0.001	<0.001	<0.003		Sand to clear No odor

3	122.5	127.7	0.8	6.0	6/3/2016	4	180	<0.001	<0.001	<0.001	<0.003	17	Sand to clear No odor
3	122.9	127.7	0.8	6.0	9/21/2016	28	294	<0.001	<0.001	<0.001	<0.003	38	Sand to clear No odor
3	123.0	127.7	0.7	6.0	11/28/2016	36	286	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
3	123.1	127.7	0.7	5.0	3/8/2017	32	292	<0.001	<0.001	<0.001	<0.003	41	Sand to clear No odor
3	123.2	127.7	0.7	5.0	6/8/2017	32	312	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
3	123.1	127.7	0.7	6.0	9/20/2017	28	310	<0.001	<0.001	<0.001	<0.003	47	Sand to clear No odor
3	123.2	127.7	0.7	6.0	12/11/2017	44	334	<0.001	<0.001	<0.001	<0.003	47	Sand to clear No odor
3	123.4	127.7	0.7	5.0	3/13/2018	44	330	<0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
3	123.6	127.7	0.6	5.0	6/8/2018	44	168	<0.001	<0.001	<0.001	<0.003	46	Sand to clear No odor
3	123.7	127.7	0.6	3.0	9/17/2018	28	276	<0.001	<0.001	<0.001	<0.003	41	Sand to clear No odor
3	123.9	127.7	0.6	3.0	11/29/2018	32	285	<0.001	<0.001	<0.001	<0.003	45	Sand to clear No odor
3	123.8	127.7	0.6	3.0	3/19/2019	48	261	<0.001	<0.001	<0.001	<0.003	37	Sand to clear No odor
3	123.8	127.7	0.6	3.0	6/14/2019	28	303	<0.001	<0.001	<0.001	<0.003	40	Sand to clear No odor
3	124.1	127.7	0.6	3.0	9/18/2019	28	266	<0.001	<0.001	<0.001	<0.003	42	Sand to clear No odor
3	124.2	127.7	0.6	3.0	12/3/2019	32	160	<0.001	<0.001	<0.001	<0.003	43	Sand to clear No odor
3	124.4	127.7	0.5	3.0	3/23/2020	28	285	<0.001	<0.001	<0.001	<0.003	65	Sand to clear No odor
3	124.6	127.7	0.5	3.0	9/22/2020	28	291	XXX	XXX	XXX	XXX	36	Sand to clear No odor
3	124.8	127.7	0.5	3.0	3/19/2021	44	320	XXX	XXX	XXX	XXX	67	Sand to clear No odor
3	125.0	127.7	0.5	3.0	6/18/2021	28	282	XXX	XXX	XXX	XXX	39	Sand to clear No odor
3	125.2	127.7	0.4	3.0	9/20/2021	28	348	XXX	XXX	XXX	XXX	54	Sand to clear No odor
3	125.3	127.7	0.4	3.0	11/19/2021	32	328	XXX	XXX	XXX	XXX	51	Sand to clear No odor

	Depth to	Total	Well	Volumo	Sample					Ethyl	Total		
MW	Water	Depth	Volume	Purged		CI	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
							000	10.004	10.004			4.5	
4	115.5	126.0	1.7		10/18/2006	38	288	< 0.001	<0.001	<0.001	<0.001		Clear
4	115.8	125.3	1.5		3/7/2007	39	296	< 0.001	<0.001	<0.001	<0.001		Silt to clear No odor
4	115.9	125.2	1.5		5/29/2007	37	316	< 0.001	<0.001	<0.001	<0.001		Silt to clear No odor
4	116.1	125.2	1.5		9/25/2007	44	358	<0.002	<0.002	<0.002	<0.006		Silt to clear No odor
4	116.1	125.2	1.5		10/17/2007	44	337	<0.001	0.004	<0.001	<0.003		Silt to clear No odor
4	116.2	125.0	1.4		1/31/2008	40	326	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	116.4	125.0	1.4		4/24/2008	40	297	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	116.6	125.0	1.3		8/7/2008	44	357	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	116.8	125.0	1.3		10/30/2008	40	358	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	116.9	124.5	1.2		1/23/2009	36	354	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.1	124.5	1.2		4/29/2009	40	247	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.3	124.5	1.2		8/7/2009	24	351	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.2	124.5	1.2		10/22/2009	36	362	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.8	125.0	1.2		4/26/2010	36	330	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.5	125.0	1.2		2/11/2010	36	325	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	117.9	125.0	1.1	6.0	8/5/2010	40	284	<0.001	<0.001	<0.001	<0.003	44	Silt to clear No odor
4	118.0	125.0	1.1	6.0	10/28/2010	40	246	<0.001	<0.001	<0.001	<0.003	41	Silt to clear No odor
4	118.2	125.9	1.2		2/21/2011	40	338	<0.001	<0.001	<0.001	<0.003	41	Silt to clear No odor
4	118.4	125.9	1.2	6.0	6/6/2011	40	321	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	118.6	125.9	1.2	6.0	9/2/2011	24	268	<0.001	<0.001	<0.001	<0.003	44	Silt to clear No odor
4	118.8	125.9	1.1	6.0	12/4/2011	44	304	<0.001	<0.001	<0.001	<0.003	63	Silt to clear No odor
4	118.8	125.9	1.1	6.0	2/24/2012	36	323	<0.001	<0.001	<0.001	<0.003	39	Silt to clear No odor
4	118.9	125.9	1.1	6.0	6/1/2012	40	349	<0.001	<0.001	<0.001	<0.003	51	Silt to clear No odor
4	119.2	125.9	1.1	6.0	8/31/2012	36	302	<0.001	<0.001	<0.001	<0.003	43	Silt to clear No odor
4	119.3	125.9	1.0	6.0	11/16/2012	40	340	<0.001	<0.001	<0.001	<0.003	43	Silt to clear No odor
4	119.4	125.9	1.0		2/14/2013	44	317	<0.001	<0.001	<0.001	<0.003	52	Silt to clear No odor
4	119.5	125.9	1.0	6.0	5/23/2013	28	265	<0.001	<0.001	<0.001	<0.003	43	Silt to clear No odor
4	119.8	125.9	1.0		9/4/2013	24	296	<0.001	<0.001	<0.001	<0.003	33	Silt to clear No odor
4	119.8	125.9	1.0	6.0	11/13/2013	28	283	<0.001	<0.001	<0.001	<0.003	44	Silt to clear No odor
4	120.0	125.9	0.9	6.0	3/14/2014	40	316	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	120.1	125.9	0.9	6.0	6/24/2014	20	216	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	120.2	125.9	0.9		8/22/2014	28	294	<0.001	<0.001	<0.001	<0.003	34	Silt to clear No odor
4	119.6	125.9	1.0		12/12/2014	60	400	<0.001	<0.001	<0.001	<0.003	27	
4	120.4	125.9	0.9		3/9/2015	36	338	<0.001	<0.001	<0.001	<0.003	25	Silt to clear No odor
4	120.4	125.9	0.9		6/8/2015	32	264	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	120.5	125.9	0.9		8/25/2015	24	318	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	120.7	125.9	0.8		11/17/2015	28	210	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor
4	120.8	125.9	0.8		3/21/2016	60	356	<0.001	<0.001	<0.001	<0.003		Silt to clear No odor



4	120.9	125.9	8.0	5.0	6/3/2016	40	286	<0.001	<0.001	<0.001	<0.003	20	Silt to clear No odor
4	121.3	125.9	0.7	6.0	9/21/2016	32	250	<0.001	<0.001	<0.001	<0.003	59	Silt to clear No odor
4	121.4	125.9	0.7	6.0	11/28/2016	40	336	<0.001	<0.001	<0.001	<0.003	44	Silt to clear No odor
4	121.6	125.9	0.7	5.0	3/8/2017	32	314	<0.001	<0.001	<0.001	<0.003	41	Silt to clear No odor
4	121.7	125.9	0.7	5.0	6/8/2017	36	338	<0.001	<0.001	<0.001	<0.003	39	Silt to clear No odor
4	121.6	125.9	0.7	5.0	9/20/2017	24	472	<0.001	<0.001	<0.001	<0.003	54	Silt to clear No odor
4	121.6	125.9	0.7	5.0	12/11/2017	56	332	<0.001	<0.001	<0.001	<0.003	49	Silt to clear No odor
4	121.8	125.9	0.7	5.0	3/13/2018	60	348	<0.001	<0.001	<0.001	<0.003	44	Silt to clear No odor
4	122.0	125.9	0.6	5.0	6/8/2018	44	286	<0.001	<0.001	<0.001	<0.003	41	Silt to clear No odor
4	122.3	125.9	0.6	3.0	9/17/2018	28	244	<0.001	<0.001	<0.001	<0.003	40	Silt to clear No odor
4	122.3	125.9	0.6	3.0	11/29/2018	32	253	<0.001	<0.001	<0.001	<0.003	42	Silt to clear No odor
4	122.3	125.9	0.6	3.0	3/19/2019	48	333	<0.001	<0.001	<0.001	<0.003	48	Silt to clear No odor
4	122.3	125.9	0.6	3.0	6/14/2019	24	311	<0.001	<0.001	<0.001	<0.003	43	Silt to clear No odor
4	122.5	125.9	0.6	3.0	9/18/2019	28	308	<0.001	<0.001	<0.001	<0.003	41	Silt to clear No odor
4	123.7	125.9	0.4	3.0	12/3/2019	28	283	<0.001	<0.001	<0.001	<0.003	42	Silt to clear No odor
4	122.9	125.9	0.5	3.0	3/23/2020	72	310	<0.001	<0.001	<0.001	<0.003	89	Silt to clear No odor
4	123.1	125.9	0.4	3.0	9/22/2020	28	137	XXX	XXX	XXX	XXX	39	Silt to clear No odor
4	123.3	125.9	0.4	3.0	3/19/2021	40	349	XXX	XXX	XXX	XXX	63	Silt to clear No odor
4	123.6	125.9	0.4	3.0	6/18/2021	28	278	XXX	XXX	XXX	XXX	41	Silt to clear No odor
4	123.7	125.9	0.4	3.0	9/20/2021	64	343	XXX	XXX	XXX	XXX	39	Silt to clear No odor
4	123.7	125.9	0.3	3.0	11/19/2021	36	311	XXX	XXX	XXX	XXX	48	Silt to clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
RW-1	116.2	143.3	17.6	70.0	6/20/2007	4,220	8,110	0.0022	<0.001	<0.001	<0.002	119	Silt to clear Slight odor
RW-1	116.3	143.3	17.6	60.0	9/25/2007	5,398	9,775	<0.002	<0.002	<0.002	<0.006	67	Silt to clear Slight odor
RW-1	XXX	XXX	XXX	60.0	10/17/2007	5,400	9,071	<0.001	0.004	<0.001	<0.003	57	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	1/31/2008	5,300	9,320	<0.001	<0.001	<0.001	<0.003	55	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	4/24/2008	3,900	6,870	<0.001	<0.001	<0.001	<0.003	45	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	8/7/2008	3,800	7,180	<0.001	<0.001	<0.001	<0.003	68	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	10/30/2008	5,850	13,700	<0.001	<0.001	<0.001	<0.003	83	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	1/26/2009	5,600	10,700	<0.001	<0.001	<0.001	<0.003	83	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	4/29/2009	4,050	7,700	<0.001	<0.001	<0.001	<0.003	54	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	8/7/2009	3,000	5,450	<0.001	<0.001	<0.001	<0.003	54	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	10/22/2009	3,550	5,820	<0.001	<0.001	<0.001	<0.003	56	Clear Slight odor
RW-1	XXX	XXX	XXX	XXX	4/26/2010	4,200	7,240	<0.001	<0.001	<0.001	<0.003	71	Clear Slight odor
RW-1	XXX	XXX	XXX	80.0	2/11/2010	3,900	6,600	<0.001	<0.001	<0.001	<0.003	89	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	8/5/2010	3,800	6,480	<0.001	<0.001	<0.001	<0.003	62	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	10/28/2010	3,200	6,970	<0.001	<0.001	<0.001	<0.003	54	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	5/23/2013	2,550	4,480	<0.001	<0.001	<0.001	<0.003	67	Purged with Solar Pump Clear Slight odor
RW-1	XXX	XXX	XXX	80.0	2/21/2011	4,800	8,430	<0.001	<0.001	<0.001	<0.003	78	Clear Slight odor
RW-1	XXX	XXX	XXX	80.0	6/6/2011	4,200	5,850	<0.001	<0.001	<0.001	<0.003	62	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	9/2/2011	3,250	4,850	<0.001	<0.001	<0.001	<0.003	63	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	12/4/2011	2,800	4,790	<0.001	<0.001	<0.001	<0.003	62	Clear Slight odor
RW-1	XXX	XXX	XXX	Running	2/24/2012	3,250	5,170	<0.001	<0.001	<0.001	<0.003	60	Clear Slight odor
RW-1	XXX	xxx	XXX	Running	6/1/2012	2,550	4,960	<0.001	<0.001	<0.001	<0.003	60	Purged with Solar Pump Clear Slight odor
RW-1	xxx	xxx	xxx	Running	8/31/2012	2,270	4,150	<0.001	<0.001	<0.001	<0.003	59	Purged with Solar Pump Clear Slight odor
RW-1	xxx	XXX	xxx	Running	11/16/2012	3,900	6,800	<0.001	<0.001	<0.001	<0.003	78	Purged with Solar Pump Clear Slight odor
RW-1	Pump in Well	XXX	XXX	100.0	2/14/2013	4,200	6,840	<0.001	<0.001	<0.001	<0.003	72	Purged with Solar Pump Clear Slight odor
RW-1	XXX	XXX	XXX	Running	9/4/2013	1,880	3,730	<0.001	<0.001	<0.001	<0.003	65	Purged with Solar Pump Clear Slight odor
RW-1	xxx	XXX	XXX	Running	11/13/2013	1,800	3,550	<0.001	<0.001	<0.001	<0.003	60	Purged with Solar Pump Clear Slight odor

RW-1														
RW-1	RW-1	XXX	XXX	XXX	100.0	3/14/2014	2,070	3,900	<0.001	<0.001	<0.001	<0.003	67	Purged with Solar Pump
RW-1 120.3 14.3 14.9 60.0 12/12/2014 1,500 3,140 <0.001 <0.001 <0.001 <0.003 5d Clear Slight odor RW-1 120.4 143.3 14.9 60.0 3/10/2015 1,300 2,960 <0.001 <0.001 <0.001 <0.003 5d Clear Slight odor RW-1 120.5 143.3 14.8 50.0 6/8/2015 1,020 2,670 <0.001 <0.001 <0.001 <0.003 49 Clear Slight odor RW-1 120.5 143.3 14.8 50.0 6/8/2015 1,020 2,670 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.7 143.5 14.7 50.0 8/2/5/2015 1,100 2,070 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.9 143.3 14.6 50.0 11/17/2015 880 1,780 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.9 143.3 14.6 50.0 11/17/2015 880 1,780 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.9 143.3 143.3 XXX 50.0 5/2/12016 840 1,690 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12016 1,040 2,100 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12016 1,930 3,690 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12016 1,930 3,680 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12017 1,580 3,680 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12017 1,580 3,680 <0.001 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12017 1,580 3,580 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 5/2/12018 1,580 2,700 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 5/12/12018 1,580 2,700 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 5/12/12018 1,58	RW-1	XXX	XXX	XXX	Running	6/24/2014	1,640	3,730	<0.001	<0.001	<0.001	<0.003	60	
RW-1 120.4 143.3 14.9 60.0 3/10/2015 1,300 2,960 <0.001 <0.001 <0.001 <0.003 61 Clear Slight odor RW-1 120.5 143.3 14.8 50.0 6/8/2015 1,202 2,670 <0.001 <0.001 <0.001 <0.003 49 Clear Slight odor	RW-1	XXX	XXX	XXX	Running	8/22/2014	1,400	3,180	<0.001	<0.001	<0.001	<0.003		Clear Slight odor
RW-1 120.5 143.3 14.8 50.0 6/8/2015 1,020 2,670 <0.001 <0.001 <0.001 <0.003 49 Clear Slight odor RW-1 120.7 143.5 14.7 50.0 8/25/2015 1,100 2,070 <0.001 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.7 143.5 14.7 50.0 8/25/2015 1,100 2,070 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/21/2016 840 1,690 <0.001 <0.001 <0.001 <0.001 <0.003 39 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/3/2016 1,040 2,100 <0.001 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/3/2016 1,040 2,100 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 11/28/2016 1,930 3,690 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/8/2017 1,930 3,680 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,740 3,560 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/17/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 73 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/17/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 73 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/17/2018	RW-1	120.3	143.3	14.9	60.0	12/12/2014	1,500	3,140	<0.001	<0.001	<0.001	<0.003	54	Clear Slight odor
RW-1 120.7 143.5 14.7 50.0 8/25/2015 1,100 2,070 <0.001 <0.001 <0.001 <0.003 37 Clear Slight odor RW-1 120.9 143.3 14.6 50.0 11/17/2015 880 1,780 <0.001 <0.001 <0.001 <0.003 53 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/21/2016 840 1,690 <0.001 <0.001 <0.001 <0.003 39 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/3/2016 1,040 2,100 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/3/2016 1,940 2,100 <0.001 <0.001 <0.001 <0.003 77 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 11/28/2016 1,930 3,690 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/8/2017 1,930 3,680 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/8/2017 1,930 3,680 <0.001 <0.001 <0.001 <0.003 76 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,740 3,560 <0.001 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/12/2018 1,580 2,740 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.001 <0.003 69 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 11/30/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 69 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 11/30/2018 880 1,870 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 11/30/2018 880 1,870 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 11/30/2018 880 1,870 <0.001 <0.001 <0.	RW-1	120.4	143.3	14.9	60.0	3/10/2015	1,300	2,960	<0.001	<0.001	<0.001	<0.003	61	Clear Slight odor
RW-1 120.9 143.3 14.6 50.0 11/17/2015 880 1,780 <0.001 <0.001 <0.001 <0.003 53 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/21/2016 840 1,690 <0.001 <0.001 <0.001 <0.003 39 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/3/2016 1,040 2,100 <0.001 <0.001 <0.001 <0.001 <0.003 57 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/21/2016 2,130 4,110 <0.001 <0.001 <0.001 <0.003 77 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/21/2016 1,930 3,690 <0.001 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/8/2017 1,930 3,680 <0.001 <0.001 <0.001 <0.003 75 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,930 3,680 <0.001 <0.001 <0.001 <0.003 76 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,740 3,560 <0.001 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 2,740 <0.001 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 3/2/2018 1,580 2,740 <0.001 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.001 <0.003 60 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.001 <0.003 60 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.001 <0.003 76 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/4/2019 650 1,450 <0.001 <0.001 <0.001 <0.003 76 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2019 650 1,450 <0.00	RW-1	120.5	143.3	14.8	50.0	6/8/2015	1,020	2,670	<0.001	<0.001	<0.001	<0.003	49	Clear Slight odor
RW-1	RW-1	120.7	143.5	14.7	50.0	8/25/2015	1,100	2,070	<0.001	<0.001	<0.001	<0.003	37	Clear Slight odor
RW-1	RW-1	120.9	143.3	14.6	50.0	11/17/2015	880	1,780	<0.001	<0.001	<0.001	<0.003	53	Clear Slight odor
RW-1	RW-1	XXX	143.3	XXX	50.0	3/21/2016	840	1,690	<0.001	<0.001	<0.001	<0.003	39	Clear Slight odor
RW-1	RW-1	XXX	143.3	XXX	50.0	6/3/2016	1,040	2,100	<0.001	<0.001	<0.001	<0.003	57	Clear Slight odor
RW-1 XXX 143.3 XXX 50.0 3/8/2017 1,930 3,680 <0.001 <0.001 <0.003 78 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,740 3,560 <0.001	RW-1	XXX	143.3	XXX	50.0	9/21/2016	2,130	4,110	<0.001	<0.001	<0.001	<0.003	77	Clear Slight odor
RW-1 XXX 143.3 XXX 50.0 6/8/2017 1,740 3,560 <0.001 <0.001 <0.003 70 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001	RW-1	XXX	143.3	XXX	50.0	11/28/2016	1,930	3,690	<0.001	<0.001	<0.001	<0.003	75	Clear Slight odor
RW-1 XXX 143.3 XXX 50.0 9/20/2017 1,580 3,850 <0.001 <0.001 <0.003 88 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 12/11/2017 1,580 2,740 <0.001	RW-1	XXX	143.3	XXX	50.0	3/8/2017	1,930	3,680	<0.001	<0.001	<0.001	<0.003	78	Clear Slight odor
RW-1 XXX 143.3 XXX 50.0 12/11/2017 1,580 2,740 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/12/2018 1,580 2,700 <0.001	RW-1	XXX	143.3	XXX	50.0	6/8/2017	1,740	3,560	<0.001	<0.001	<0.001	<0.003	70	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 3/12/2018 1,580 2,700 <0.001 <0.001 <0.003 71 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001	RW-1	XXX	143.3	XXX	50.0	9/20/2017	1,580	3,850	<0.001	<0.001	<0.001	<0.003	88	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 6/8/2018 1,480 2,740 <0.001 <0.001 <0.003 69 Clear Slight odor RW-1 XXX 143.3 XXX 50.0 9/17/2018 1,500 2370 <0.001	RW-1	XXX	143.3	XXX	50.0	12/11/2017	1,580	2,740	<0.001	<0.001	<0.001	<0.003	72	Clear Slight odor
RW-1 XXX 143.3 XXX 50.0 9/17/2018 1,500 2370 <0.001 <0.001 <0.003 63 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 11/30/2018 880 1,870 <0.001	RW-1	XXX	143.3	XXX	100.0	3/12/2018	1,580	2,700	<0.001	<0.001	<0.001	<0.003	71	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 11/30/2018 880 1,870 <0.001 <0.001 <0.003 93 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/20/2019 870 1,770 <0.001	RW-1	XXX	143.3	XXX	100.0	6/8/2018	1,480	2,740	<0.001	<0.001	<0.001	<0.003	69	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 3/20/2019 870 1,770 <0.001 <0.001 <0.003 76 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/14/2019 710 1,410 <0.001	RW-1	XXX	143.3	XXX	50.0	9/17/2018	1,500	2370	<0.001	<0.001	<0.001	<0.003	63	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 6/14/2019 710 1,410 <0.001 <0.001 <0.003 79 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/18/2019 650 1,450 <0.001	RW-1	XXX	143.3	XXX	100.0	11/30/2018	880	1,870	<0.001	<0.001	<0.001	<0.003	93	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 9/18/2019 650 1,450 <0.001 <0.001 <0.003 74 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 12/4/2019 620 1,420 <0.001	RW-1	XXX	143.3	XXX	100.0	3/20/2019	870	1,770	<0.001	<0.001	<0.001	<0.003	76	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 12/4/2019 620 1,420 <0.001 <0.001 <0.003 72 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/24/2020 550 1,260 <0.001	RW-1	XXX	143.3	XXX	100.0	6/14/2019	710	1,410	<0.001	<0.001	<0.001	<0.003	79	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 3/24/2020 550 1,260 <0.001 <0.001 <0.003 69 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/21/2020 510 1,300 XXX XXX XXX XXX 63 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/19/2021 430 1,160 XXX XXX XXX XXX 53 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/18/2021 760 1,610 XXX XXX XXX XXX 57 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	9/18/2019	650	1,450	<0.001	<0.001	<0.001	<0.003	74	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 9/21/2020 510 1,300 XXX XXX XXX XXX 63 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 3/19/2021 430 1,160 XXX XXX XXX XXX 53 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/18/2021 760 1,610 XXX XXX XXX XXX 57 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	12/4/2019	620	1,420	<0.001	<0.001	<0.001	<0.003	72	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 3/19/2021 430 1,160 XXX XXX XXX XXX 53 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/18/2021 760 1,610 XXX XXX XXX XXX 57 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	3/24/2020	550	1,260	<0.001	<0.001	<0.001	<0.003	69	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 3/19/2021 430 1,160 XXX XXX XXX XXX 53 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 6/18/2021 760 1,610 XXX XXX XXX XXX 57 Clear Slight odor RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	9/21/2020	510	1,300	XXX	XXX	XXX	XXX	63	Clear Slight odor
RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	3/19/2021	430	1,160	XXX	XXX	XXX	XXX		_
RW-1 XXX 143.3 XXX 100.0 9/20/2021 720 1,520 XXX XXX XXX XXX 67 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	6/18/2021	760	1,610	XXX	XXX	XXX	XXX	57	Clear Slight odor
	RW-1	XXX	143.3	XXX	100.0	9/20/2021	720	1,520	XXX	XXX	XXX	XXX		
RW-1 XXX 143.3 XXX 100.0 11/19/2021 328 808 XXX XXX XXX XXX XXX 42 Clear Slight odor	RW-1	XXX	143.3	XXX	100.0	11/19/2021	328	808	XXX	XXX	XXX	XXX	42	Clear Slight odor



April 01, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM N-6-1

Enclosed are the results of analyses for samples received by the laboratory on 03/24/21 15:45.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/24/2021 Sampling Date: 03/19/2021 Reported: 04/01/2021 Sampling Type: Water

Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #1R (H210744-01)

Chloride, SM4500CI-B	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	440	4.00	03/25/2021	ND	92.0	92.0	100	0.00	
Sulfate 375.4	mg/	'L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	57.6	10.0	03/26/2021	ND	23.3	116	20.0	1.54	
TDS 160.1	mg/	'L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1030	5.00	03/29/2021	ND	475	95.0	500	16.3	

Sample ID: MONITOR WELL #2 (H210744-02)

Chloride, SM4500CI-B	mg	/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	48.0	4.00	03/25/2021	ND	92.0	92.0	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	70.5	10.0	03/26/2021	ND	23.3	116	20.0	1.54	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	338	5.00	03/29/2021	ND	475	95.0	500	16.3	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/24/2021 Sampling Date: 03/19/2021 Reported: 04/01/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H210744-03)

Chloride, SM4500Cl-B	mg,	/L	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	44.0	4.00	03/25/2021	ND	92.0	92.0	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	67.2	10.0	03/26/2021	ND	23.3	116	20.0	1.54	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	320	5.00	03/29/2021	ND	475	95.0	500	16.3	

Sample ID: MONITOR WELL #4 (H210744-04)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	40.0	4.00	03/25/2021	ND	92.0	92.0	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	63.2	10.0	03/26/2021	ND	23.3	116	20.0	1.54	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	349	5.00	03/29/2021	ND	475	95.0	500	16.3	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 03/24/2021 Sampling Date: 03/19/2021 Reported: 04/01/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: Tamara Oldaker NOT GIVEN Sample Received By:

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: RECOVERY WELL #1 (H210744-05)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	430	4.00	03/25/2021	ND	92.0	92.0	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	53.0	10.0	03/26/2021	ND	23.3	116	20.0	1.54	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1160	5.00	03/29/2021	ND	475	95.0	500	16.3	

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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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June 25, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM N-6-1

Enclosed are the results of analyses for samples received by the laboratory on 06/22/21 12:05.

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.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager





Analytical Results For:

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

Fax To: (575) 397-1471

 Received:
 06/22/2021
 Sampling Date:
 06/18/2021

 Reported:
 06/25/2021
 Sampling Type:
 Water

Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #1R (H211611-01)

Chloride, SM4500Cl-B	mg	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	780	4.00	06/22/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	60.9	10.0	06/23/2021	ND	19.4	97.2	20.0	8.04	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1580	5.00	06/24/2021	ND	515	103	500	0.0280	

Sample ID: MONITOR WELL #2 (H211611-02)

Chloride, SM4500Cl-B	mg	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	06/22/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	36.5	10.0	06/23/2021	ND	19.4	97.2	20.0	8.04	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	264	5.00	06/24/2021	ND	515	103	500	0.0280	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/22/2021 Sampling Date: 06/18/2021 Reported: 06/25/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Sample Received By: Project Number: NOT GIVEN Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H211611-03)

Chloride, SM4500Cl-B	mg	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	06/22/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	39.3	10.0	06/23/2021	ND	19.4	97.2	20.0	8.04	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	282	5.00	06/24/2021	ND	515	103	500	0.0280	

Sample ID: MONITOR WELL #4 (H211611-04)

Chloride, SM4500CI-B	mg,	/L	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	06/22/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	40.7	10.0	06/23/2021	ND	19.4	97.2	20.0	8.04	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	278	5.00	06/24/2021	ND	515	103	500	0.0280	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 06/22/2021 Sampling Date: 06/18/2021 Reported: 06/25/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: RECOVERY WELL #1 (H211611-05)

Chloride, SM4500Cl-B	mg	/L	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	760	4.00	06/22/2021	ND	104	104	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	56.5	10.0	06/23/2021	ND	19.4	97.2	20.0	8.04	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1610	5.00	06/24/2021	ND	515	103	500	0.0280	

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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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Celeg D. Freene

Laboratory Reports

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September 28, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM N-6-1

Enclosed are the results of analyses for samples received by the laboratory on 09/22/21 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 09/22/2021 Sampling Date: 09/20/2021
Reported: 09/28/2021 Sampling Type: Water

Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #1R (H212640-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	320	4.00	09/23/2021	ND	100	100	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*	44.9	10.0	09/24/2021	ND	20.0	100	20.0	1.10	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	840	5.00	09/27/2021	ND	268	89.3	300	2.79	

Sample ID: MONITOR WELL #2 (H212640-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	68.0	4.00	09/23/2021	ND	100	100	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*	37.7	10.0	09/24/2021	ND	20.0	100	20.0	1.10	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	373	5.00	09/27/2021	ND	268	89.3	300	2.79	

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune





Analytical Results For:

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

Fax To: (575) 397-1471

Received: 09/22/2021 Sampling Date: 09/20/2021 Reported: 09/28/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H212640-03)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	28.0	4.00	09/23/2021	ND	100	100	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*	54.0	10.0	09/24/2021	ND	20.0	100	20.0	1.10	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	348	5.00	09/27/2021	ND	268	89.3	300	2.79	

Sample ID: MONITOR WELL #4 (H212640-04)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	64.0	4.00	09/23/2021	ND	100	100	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*	39.3	10.0	09/24/2021	ND	20.0	100	20.0	1.10	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	343	5.00	09/27/2021	ND	268	89.3	300	2.79	

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene





Analytical Results For:

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

Received: 09/22/2021 Reported: 09/28/2021 Project Name: VACUUM N-6-1 Project Number:

NOT GIVEN

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM Sampling Date: 09/20/2021

Sampling Type: Water Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: RECOVERY WELL #1 (H212640-05)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	720	4.00	09/23/2021	ND	100	100	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*	66.9	10.0	09/24/2021	ND	20.0	100	20.0	1.10	
TDS 160.1	mg	/L	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1520	5.00	09/27/2021	ND	268	89.3	300	2.79	

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Celeg D. Keine





Notes and Definitions

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

recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene

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December 01, 2021

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM N-6-1

Enclosed are the results of analyses for samples received by the laboratory on 11/23/21 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

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

Fax To: (575) 397-1471

Received: 11/23/2021 Sampling Date: 11/20/2021
Reported: 12/01/2021 Sampling Type: Water

Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #1R (H213377-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	700	4.00	11/30/2021	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	56.4	10.0	11/24/2021	ND	23.5	117	20.0	1.20	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	1520	5.00	11/29/2021	ND	528	106	500	2.46	

Sample ID: MONITOR WELL #2 (H213377-02)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	92.0	4.00	11/30/2021	ND	100	100	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	39.9	10.0	11/24/2021	ND	23.5	117	20.0	1.20	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	392	5.00	11/29/2021	ND	528	106	500	2.46	

Cardinal Laboratories *=Accredited Analyte

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 11/23/2021 Sampling Date: 11/19/2021 Reported: 12/01/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: MONITOR WELL #3 (H213377-03)

Chloride, SM4500CI-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	32.0	4.00	11/30/2021	ND	100	100	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	50.5	10.0	11/24/2021	ND	23.5	117	20.0	1.20	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	328	5.00	11/29/2021	ND	528	106	500	2.46	

Sample ID: MONITOR WELL #4 (H213377-04)

Chloride, SM4500CI-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	36.0	4.00	11/30/2021	ND	100	100	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	48.4	10.0	11/24/2021	ND	23.5	117	20.0	1.20	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	311	5.00	11/29/2021	ND	528	106	500	2.46	

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Analytical Results For:

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

Fax To: (575) 397-1471

Received: 11/23/2021 Sampling Date: 11/19/2021 Reported: 12/01/2021 Sampling Type: Water Project Name: VACUUM N-6-1 Sampling Condition: Cool & Intact Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: T17S-R35E-SEC6 N-LEA CTY., NM

Sample ID: RECOVERY WELL #1 (H213377-05)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	328	4.00	11/30/2021	ND	100	100	100	0.00	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	42.1	10.0	11/24/2021	ND	23.5	117	20.0	1.20	
TDS 160.1	mg/L Analyzed By: GM								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	808	5.00	11/30/2021	ND	528	106	500	2.46	

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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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Celey D. Keine

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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

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 90585

CONDITIONS

Operator:	OGRID:
RICE OPERATING COMPANY	19174
122 W Taylor	Action Number:
Hobbs, NM 88240	90585
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Review of 2021 Annual Groundwater Report: Content satisfactory 1. Continue sampling on a quarterly schedule 2. Continue groundwater recovery 3. Submit next annual report no later than March 31, 2023.	12/19/2022