# L Peter Galusky, Jr PE

5935 Exeter Cir Norcross, GA 30071 | 470 955-5335 | peter@terrae.us

April 1<sup>st</sup>, 2025

## Michael Buchanan

New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 S. St. Francis Drive Santa Fe, New Mexico 87504

### Re: 2024 Annual Report

Rice Operating Company – Vacuum SWD System **Vacuum F-34 Vent Boot** (1R425-67): UL F, Section 34, Township 17S, Range 35E NMOCD Application ID pEJH0935760781, Incident ID: nAPP2110338866

Sent via E-mail

## Mr. Buchanan:

This Annual Report is submitted to NMOCD for Rice Operating Company's (ROC) Vacuum F-34 Vent Boot project in Lea County, New Mexico pursuant to NMOCD's approval email letter of September 17<sup>th</sup>, 2024 (Appendix, Exhibit 1).

## **Background and Brief Project History**

The site is located approximately 2.5 miles east-southeast of Buckeye, New Mexico (Appendix, Figure 1). The regional topography slopes gently toward the southeast. Groundwater is encountered at a depth of approximately 75+/- ft below ground surface in the Ogallala Formation and flows toward the southeast (Appendix, Figures 2 and 3).

The junction box at this location was removed during the Vacuum SWD system abandonment and conducted an initial soils evaluation in 2008. The results of an NMOCD approved Investigation and Characterization Plan (ICP) indicated elevated levels of soil and groundwater chlorides, and a Notification of Groundwater Impact was submitted to NMOCD on October 26<sup>th</sup>, 2010. ROC installed a double synthetic subsurface soil liner and completed surface restoration in May 2011 and NMOCD granted vadose zone remediation termination status, or 'soil closure,' on September 15<sup>th</sup>, 2011. A Project Update was submitted to NMOCD on August 8<sup>th</sup>, 2013 which

## Rice Operating Company - Vacuum F-34 Vent Boot Annual Report

proposed continued groundwater monitoring and limited groundwater withdrawal from the near-source well (MW-1) to determine if this would effectively reduce groundwater chloride mass. NMOCD approved this work on August 13<sup>th</sup>, 2013. Monitor well locations are shown in the Appendix, Figures 2 & 3.

## Past Year and Current Status

ROC began groundwater recovery from MW-1 in April of 2014. A total of 19,163 bbls of groundwater and approximately 1,324 kg of chloride have been removed through 2024. The removed groundwater has been hauled to off-site locations for beneficial use.

Groundwater chloride concentrations in the near-source, down-gradient monitor well (MW-1) dropped significantly from 401 mg/l in 2023 to 287 mg/l in 2024 (Appendix Figure 4, Table 1). Chlorides in the up-gradient monitor well (MW-2) rose from 64 mg/l in 2023 to 91 mg/l in 2024 (Appendix Figure 4, Table 1). BTEX has not been sampled since March 2020 per NMOCD granted approval, due to the consistent absence of BTEX in groundwater samples taken during prior years. The full dataset of groundwater results is given in Table 2 of the Appendix.

ROC will continue quarterly groundwater sampling and groundwater recovery during 2025.

ROC is the service provider (agent) for the Vacuum 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. The Vacuum system is now abandoned. We thus submit this report for your review and consideration.

## L Peter Galusky, Jr PE

### **Rice Operating Company – Vacuum F-34 Vent Boot Annual Report**

Please contact either Katie Davis at 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 in text

## L Peter Galusky, Jr PE

From:	OCDOnline@state.nm.us
То:	Katie Jones
Subject:	The Oil Conservation Division (OCD) has approved the application, Application ID: 327877
Date:	Tuesday, September 17, 2024 10:34:15 AM

To whom it may concern (c/o Katie Davis for RICE OPERATING COMPANY),

The OCD has approved the submitted *Ground Water Abatement* (GROUND WATER ABATEMENT), for incident ID (n#) nAPP2110338866, with the following conditions:

• Review of the 2023 Annual Report for Vacuum F-34 Vent Boot (1R425-67): content satisfactory 1. Continue to conduct groundwater monitoring on a quarterly basis as prescribed. 2. Continue groundwater recovery for the site as planned. 3. Submit the 2024 Annual Groundwater Report to OCD by April 1, 2025.

The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you, Michael Buchanan Environmental Specialist 505-490-0798 Michael.Buchanan@emnrd.nm.gov

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

## Received by OCD: 3/31/2025 10:23:26 AM Geographic Location

19





Site Map





Received by OCD: 3/31/2025 10:23:26 AM



## Groundwater Elevation Q4 2024

Page 7 of 34 Figure 3





## ROC - Vacuum F-34 vent boot (1R425-67) Annual Average Groundwater Chloride Concentrations (mg/l) and Groundwater Volume (bbls) and Chloride Mass (kg) Removal

MW-1	MW-2	OCD std	cum GW removed r	cum Cl- emoved
year (down-gradient)	(up-gradient)	(mg/l)	(bbls) (l	kg)
2010 983	68	250		
2011 1,150	54	250		
2012 890	67	250		
2013 948	52	250		
2014 865	74	250	4,077	396
2015 798	71	250	5,327	486
2016 653	58	250	7,117	642
2017 463	58	250	9,187	800
2018 427	47	250	9,907	850
2019 381	64	250	12,107	965
2020 236	45	250	12,107	965
2021 444	67	250	13,873	1,066
2022 354	50	250	15,664	1,161
2023 401	64	250	17,387	1,249
2024 287	91	250	19,163	1,324

MW	Depth to	Total	Well	Volume	Sample Date	Cl	ann.	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments
1	Water 69.91	Depth 118.36	Volume 31.5	Purged 100	5/28/2010	940	avg Cl	2,030	<0.001	<0.001	Benzene <0.001	Xylenes <0.003	91	Clear No. adar
1	69.74	118.36	31.6	100	7/27/2010	940 1,040		2,030	<0.001	<0.001	<0.001	<0.003	91	Clear No odor Clear No odor
1	69.74 69.75	118.36	31.6	100	10/27/2010	970	983	2,130	<0.001	<0.001	<0.001	< 0.003	99.1	Clear No odor
1	69.73	118.36	31.5	100	2/18/2011	1,030	965	2,010	<0.001	<0.001	<0.001	<0.003	94.9 85.6	Clear No odor
1	70.06	118.36	31.4	100	6/3/2011	1,150		2,010	<0.001	<0.001	<0.001	<0.003	89.7	Clear No odor
1	70.08	118.36	31.4	100	9/1/2011	1,160		2,100	<0.001	<0.001	<0.001	<0.003	87.3	Clear No odor
1	70.08	118.36	31.4	100	12/3/2011	1,260	1,150	2,380	<0.001	<0.001	<0.001	<0.003	86.6	Clear No odor
1	70.22	118.36	31.4	100	2/23/2011	1,060	1,150	2,470	<0.001	<0.001	<0.001	<0.003	98.4	Clear No odor
1	70.22	118.36	31.3	100	5/31/2012	930		2,300	<0.001	<0.001	<0.001	<0.003	81.2	Clear No odor
1	70.02	118.36	31.4	100	8/24/2012	980		2,060	< 0.001	< 0.001	< 0.001	<0.003	80.8	Clear No odor
1	70.06	118.36	31.4	100	11/19/2012	590	890	1,320	< 0.001	< 0.001	< 0.001	< 0.003	77.7	Clear No odor
1	70.24	118.36	31.3	100	2/13/2013	960		1,990	< 0.001	<0.001	< 0.001	< 0.003	76	Clear No odor
1	70.56	118.36	31.1	100	5/29/2013	1,020		, 2,320	<0.001	<0.001	<0.001	<0.003	71	Clear No odor
1	70.83	118.36	30.9	100	9/5/2013	, 920		2,150	< 0.001	<0.001	<0.001	<0.003	289	Clear No odor
1	XXX	118.36	XXX	100	11/14/2013	890	948	2,040	<0.001	<0.001	<0.001	<0.003	59.7	Clear No odor
1	XXX	118.36	XXX	100	3/6/2014	1,040		2,080	<0.001	<0.001	<0.001	<0.003	55.2	Clear No odor
1	XXX	118.36	XXX	running	6/4/2014	769		1,490	<0.001	<0.001	<0.001	<0.003	82	Clear No odor
1	XXX	118.36	XXX	running	8/23/2014	630		1,570	< 0.001	<0.001	<0.001	<0.003	80	Clear No odor
1	XXX	118.36	XXX	100	12/4/2014	1,020	865	2,170	< 0.001	< 0.001	<0.001	<0.003	78.3	Clear No odor
1	XXX	118.36	XXX	100	3/5/2015	810		1,850	<0.001	< 0.001	<0.001	<0.003	53.4	Clear No odor
1	XXX	118.36	XXX	running	6/4/2015	432		1,140	< 0.001	< 0.001	<0.001	< 0.003	65.5	Clear No odor
1	70.64	118.36	31	100	8/24/2015	1,060		1,950	<0.001	<0.001	<0.001	<0.003	34.8	Clear No odor
1	XXX	118.36	0	200	11/13/2015	890	798	1,770	<0.001	<0.001	<0.001	<0.003	32.4	Clear No odor
1	XXX	118.36	XXX	200	2/29/2016	810		1,700	<0.001	<0.001	<0.001	<0.003	68.4	Clear No odor
1	XXX	118.36	XXX	200	5/20/2016	620		1,530	<0.001	<0.001	<0.001	<0.003	64	Clear No odor
1	XXX	118.36	XXX	running	9/13/2016	710		1,930	<0.001	<0.001	<0.001	<0.003	73	Clear No odor
1	XXX	118.36	XXX	100	11/16/2016	470	653	1,110	<0.001	<0.001	<0.001	<0.003	79	Clear No odor
1	XXX	118.36	XXX	100	2/23/2017	400		1,470	<0.001	<0.001	<0.001	<0.003	193	Clear No odor
1	XXX	118.36	XXX	Running	5/26/2017	400		1,060	<0.001	<0.001	<0.001	<0.003	66	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	XXX	118.36	XXX	Running	9/11/2017	490		1,120	< 0.001	<0.001	<0.001	< 0.003	79	Clear No odor
1	XXX	118.36	XXX	100	11/30/2017	560	463	1,310	< 0.001	< 0.001	<0.001	<0.003	75	Clear No odor
1	XXX	118.36	XXX	100	3/1/2018	550		1,260	<0.001	<0.001	<0.001	<0.003	110	Clear No odor
1	XXX	118.36	XXX	100	6/1/2018	470		1,100	<0.001	<0.001	<0.001	<0.003	39	Clear No odor
1	XXX	118.36	XXX	100	9/7/2018	400		840	<0.001	<0.001	<0.001	<0.003	65.6	Clear No odor
1	XXX	118.36	XXX	100	11/15/2018	288	427	452	<0.001	<0.001	<0.001	<0.003	129	Clear No odor
1	XXX	118.36	XXX	100	3/7/2019	530		1,160	<0.001	<0.001	<0.001	<0.003	74	Clear No odor
1	XXX	118.36	XXX	Running	5/30/2019	336		881	<0.001	<0.001	<0.001	<0.003	61	Clear No odor
1	XXX	118.36	XXX	Running	8/30/2019	380		932	<0.001	<0.001	<0.001	<0.003	61	Clear No odor
1	XXX	118.36	XXX	100	11/20/2019	276	381	737	<0.001	<0.001	<0.001	<0.003	56	Clear No odor
1	XXX	118.36	XXX	100	3/6/2020	228		592	<0.001	<0.001	<0.001	<0.003	52.7	Clear No odor
1	XXX	118.36	XXX	100	9/11/2020	204		740	XXX	XXX	XXX	XXX	71.9	Clear No odor
1	XXX	118.36	XXX	100	11/9/2020	276	236	977	XXX	XXX	XXX	XXX	69.3	Clear No odor
1	XXX	118.36	XXX	100	3/11/2021	720		1,550	XXX	XXX	XXX	XXX	69.4	Clear No odor
1	XXX	118.36	XXX	100	6/11/2021	356		912	XXX	XXX	XXX	XXX	63.4	Clear No odor
1	XXX	118.36	XXX	100	9/8/2021	360		926	XXX	XXX	XXX	XXX	78.3	Clear No odor
1	XXX	118.36	XXX	100	11/10/2021	340	444	866	XXX	XXX	XXX	XXX	83.1	Clear No odor
1	XXX	118.36	XXX	100	3/2/2022	344		1,160	XXX	XXX	XXX	XXX	68.7	Clear No odor
1	XXX	118.36	XXX	Running	6/13/2022	332		836	XXX	XXX	XXX	XXX	63.8	Clear No odor
1	XXX	118.36	XXX	Running	9/7/2022	444		1,070	XXX	XXX	XXX	XXX	65.4	Clear No odor
1	XXX	118.36	XXX	100	12/1/2022	296	354	1,040	XXX	XXX	XXX	XXX	53.3	Clear No odor
1	XXX	118.36	XXX	100	3/17/2023	480		1,070	XXX	XXX	XXX	XXX	57.6	Clear No odor
1	XXX	118.36	XXX	Running	6/8/2023	300		788	XXX	XXX	XXX	XXX	61.8	Clear No odor
1	XXX	118.36	XXX	Running	8/17/2023	332		889	XXX	XXX	XXX	XXX	61.8	Clear No odor
1	XXX	118.36	XXX	Running	10/11/2023	490	401	1,180	XXX	XXX	XXX	XXX	72.9	Clear No odor
1	XXX	118.36	XXX	100	3/12/2024	264		835	XXX	XXX	XXX	XXX	66.2	Clear No odor
1	XXX	118.36	XXX	Running	5/30/2024	140		540	XXX	XXX	XXX	XXX	68	Clear No odor
1	XXX	118.36	XXX	Running	8/14/2024	368		981	XXX	XXX	XXX	XXX	72.3	Clear No odor
1	XXX	118.36	XXX	Running	11/1/2024	376	287	1,090	XXX	XXX	XXX	XXX	64.2	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	70.48	84.22	2.2	10	11/22/2010	68	68	340	<0.001	<0.001	<0.001	< 0.003	71.7	Clear No odor
2	70.57	84.32	2.2	10	2/18/2011	60		403	<0.001	<0.001	< 0.001	<0.003	50.5	Clear No odor
2	70.72	84.32	2.2	10	6/3/2011	56		384	<0.001	<0.001	< 0.001	<0.003	56.9	Clear No odor
2	70.73	84.32	2.2	10	9/1/2011	56		407	<0.001	<0.001	<0.001	<0.003	58.6	Clear No odor
2	70.75	84.32	2.2	10	12/3/2011	44	54	350	<0.001	<0.001	<0.001	<0.003	54.1	Clear No odor
2	70.89	84.32	2.1	10	2/23/2012	116		448	<0.001	<0.001	<0.001	<0.003	61.8	Clear No odor
2	70.94	84.32	2.1	10	5/31/2012	40		422	<0.001	<0.001	<0.001	<0.003	64	Clear No odor
2	71.12	84.32	2.1	10	8/24/2012	60		399	<0.001	<0.001	<0.001	<0.003	50.8	Clear No odor
2	71.18	84.32	2.1	10	11/19/2012	52	67	398	<0.001	<0.001	<0.001	<0.003	47.6	Clear No odor
2	71.37	84.32	2.1	10	2/13/2013	60		380	<0.001	<0.001	<0.001	<0.003	54.5	Clear No odor
2	71.71	84.32	2	10	5/29/2013	32		595	<0.001	<0.001	<0.001	<0.003	43	Clear No odor
2	71.88	84.32	2	10	9/5/2013	56		419	<0.001	<0.001	<0.001	<0.003	53.7	Clear No odor
2	71.84	84.32	2	10	11/14/2013	60	52	419	<0.001	<0.001	<0.001	<0.003	56.8	Clear No odor
2	71.92	84.32	2	10	3/6/2014	64		292	<0.001	<0.001	<0.001	<0.003	56.6	Clear No odor
2	71.82	84.32	2	10	6/4/2014	68		406	<0.001	<0.001	<0.001	<0.003	54.4	Clear No odor
2	71.85	84.32	2	10	8/23/2014	72		414	<0.001	<0.001	<0.001	<0.003	49.7	Clear No odor
2	71.11	84.32	2.1	10	12/4/2014	92	74	456	<0.001	<0.001	<0.001	<0.003	41.2	Clear No odor
2	71.05	84.32	2.1	10	3/5/2015	100		500	<0.001	<0.001	<0.001	<0.003	44.2	Clear No odor
2	71.17	84.32	2.1	10	6/4/2015	64		446	<0.001	<0.001	<0.001	<0.003	48.4	Clear No odor
2	71.73	84.32	2	10	8/24/2015	36		470	<0.001	<0.001	<0.001	<0.003	39.2	Clear No odor
2	71.87	84.32	1.99	10	11/13/2015	84	71	346	<0.001	<0.001	<0.001	<0.003	61.7	Clear No odor
2	71.85	84.32	2	10	2/29/2016	40		436	<0.001	<0.001	<0.001	<0.003	63	Clear No odor
2	71.84	84.32	2	10	5/20/2016	40		356	<0.001	<0.001	<0.001	<0.003	65.2	Clear No odor
2	71.89	84.32	2	10	9/13/2016	56		392	<0.001	<0.001	<0.001	<0.003	79	Clear No odor
2	71.98	84.32	2	10	11/16/2016	96	58	466	<0.001	<0.001	<0.001	<0.003	32	Clear No odor
2	72.03	84.32	2	10	2/23/2017	52		424	<0.001	<0.001	<0.001	<0.003	60	Clear No odor
2	71.1	84.32	2	10	5/26/2017	92		522	<0.001	<0.001	<0.001	<0.003	52	Clear No odor
2	72.22	84.32	1.9	10	9/11/2017	40		278	<0.001	<0.001	<0.001	<0.003	64	Clear No odor
2	72.18	84.32	1.9	10	11/30/2017	48	58	444	<0.001	<0.001	<0.001	<0.003	62	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	ann. avg Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	72.21	84.32	1.9	10	3/1/2018	40		230	<0.001	<0.001	<0.001	, <0.003	64	Clear No odor
2	72.27	84.32	1.9	10	6/1/2018	68		402	<0.001	<0.001	<0.001	<0.003	78.6	Clear No odor
2	72.39	84.32	1.9	8	9/7/2018	40		482	< 0.001	<0.001	< 0.001	<0.003	58.7	Clear No odor
2	72.54	84.32	1.9	8	11/15/2018	40	47	196	< 0.001	<0.001	<0.001	<0.003	63.9	Clear No odor
2	72.63	84.32	1.9	10	3/7/2019	96		546	<0.001	<0.001	<0.001	<0.003	61	Clear No odor
2	72.74	84.32	1.9	10	5/30/2019	36		445	< 0.001	<0.001	<0.001	<0.003	62	Clear No odor
2	72.78	84.32	1.8	10	8/30/2019	60		456	<0.001	<0.001	<0.001	<0.003	57	Clear No odor
2	73.12	84.32	1.8	8	11/20/2019	64	64	407	<0.001	<0.001	<0.001	<0.003	55	Clear No odor
2	73.18	84.32	1.8	8	3/6/2020	60		457	<0.001	<0.001	<0.001	<0.003	63.4	Clear No odor
2	73.33	84.32	1.8	8	9/11/2020	40		338	XXX	XXX	XXX	XXX	46.1	Clear No odor
2	73.4	84.32	1.7	8	11/9/2020	36	45	496	XXX	XXX	XXX	XXX	73	Clear No odor
2	73.52	84.32	1.7	10	3/11/2021	52		362	XXX	XXX	XXX	XXX	48.5	Clear No odor
2	73.55	84.32	1.7	10	6/11/2021	40		588	XXX	XXX	XXX	XXX	54.8	Clear No odor
2	73.59	84.32	1.7	10	9/8/2021	140		552	XXX	XXX	XXX	XXX	75.8	Clear No odor
2	73.66	84.32	1.7	10	11/10/2021	36	67	615	XXX	XXX	XXX	XXX	60.7	Clear No odor
2	74.28	84.32	1.6	10	3/2/2022	44		262	XXX	XXX	XXX	XXX	57.6	Clear No odor
2	74.38	84.32	1.6	10	6/13/2022	56		336	XXX	XXX	XXX	XXX	58.3	Clear No odor
2	74.46	84.32	1.6	10	9/7/2022	44		364	XXX	XXX	XXX	XXX	61.3	Clear No odor
2	74.53	84.32	1.6	10	12/1/2022	56	50	341	XXX	XXX	XXX	XXX	51.4	Clear No odor
2	74.72	84.32	1.5	6	3/17/2023	64		295	XXX	XXX	XXX	XXX	57.6	Clear No odor
2	74.83	84.32	1.5	6	6/8/2023	68		432	XXX	XXX	XXX	XXX	70.5	Clear No odor
2	75.02	84.32	1.5	6	8/17/2023	60		396	XXX	XXX	XXX	XXX	64.2	Clear No odor
2	75.18	84.32	1.5	6	10/11/2023	64	64	382	XXX	XXX	XXX	XXX	72.5	Clear No odor
2	75.28	84.32	1.4	6	3/12/2024	68		329	XXX	XXX	XXX	XXX	71.1	Clear No odor
2	75.21	84.32	1.5	6	5/30/2024	60		441	XXX	XXX	XXX	XXX	72	Clear No odor
2	75.22	84.32	1.5	6	8/14/2024	128		527	XXX	XXX	XXX	XXX	55.5	Clear No odor
2	75.24	84.32	1.5	6	11/1/2024	108	91	513	XXX	XXX	XXX	XXX	56.4	Clear No odor





March 20, 2024

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

RE: VACUUM F-34 VENT

Enclosed are the results of analyses for samples received by the laboratory on 03/13/24 11:37.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	03/13/2024	Sampling Date:	03/12/2024
Reported:	03/20/2024	Sampling Type:	Water
Project Name:	VACUUM F-34 VENT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T17S-R35E-SEC34 F - LEA CTY, NM		

#### Sample ID: MONITOR WELL #1 (H241286-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	264	4.00	03/13/2024	ND	108	108	100	3.77	
Sulfate 375.4	mg	Result Reporting Limit 264 4.00 mg/L Result Reporting Limit 66.2 10.0 mg/L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	66.2	10.0	03/15/2024	ND	20.4	102	20.0	6.98	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	835	5.00	03/18/2024	ND	804	80.4	1000	8.08	

#### Sample ID: MONITOR WELL #2 (H241286-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	68.0	4.00	03/13/2024	ND	108	108	100	3.77	
Sulfate 375.4	mg,	/L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	71.1	10.0	03/15/2024	ND	20.4	102	20.0	6.98	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	329	5.00	03/18/2024	ND	804	80.4	1000	8.08	

#### Cardinal Laboratories

\*=Accredited Analyte

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

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Received by OCD: 3/31/2025 10:23:26 AM





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

#### **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

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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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LAB # FIELD CODE	# CONT	WATER	SOIL	AIR SI UDGE		HCL (4.	HNO <sub>3</sub>	NaHSC	H2SO4	NONF (1-1	NONE	DATE (2024)	TIME	MTBE 8	BTEX 8	TPH 418.1/	Total M	TCLP N	TCLP Volatiles	TCIPP	RCI	GC/MS	GC/MS	PCB's	Pesticio	BOD, 1	Moistu	Cation	× Sulfates		× Chlorides	Turn A
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June 10, 2024

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

RE: VACUUM F-34 VENT

Enclosed are the results of analyses for samples received by the laboratory on 06/03/24 9:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	06/03/2024	Sampling Date:	05/30/2024
Reported:	06/10/2024	Sampling Type:	Water
Project Name:	VACUUM F-34 VENT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T17S-R35E-SEC34 F - LEA CTY, NM		

#### Sample ID: MONITOR WELL #1 (H243105-01)

Chloride, SM4500Cl-B (Water)	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	140	4.00	06/05/2024	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	68.0	10.0	06/05/2024	ND	18.5	92.4	20.0	1.09	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	540	5.00	06/07/2024	ND	805	80.5	1000	0.317	

#### Sample ID: MONITOR WELL #2 (H243105-02)

Chloride, SM4500Cl-B (Water)	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	06/05/2024	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	72.0	10.0	06/05/2024	ND	18.5	92.4	20.0	1.09	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	441	5.00	06/07/2024	ND	805	80.5	1000	0.317	

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg 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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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August 27, 2024

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

RE: VACUUM F-34 VENT

Enclosed are the results of analyses for samples received by the laboratory on 08/15/24 14:24.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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:	08/15/2024	Sampling Date:	08/14/2024
Reported:	08/27/2024	Sampling Type:	Water
Project Name:	VACUUM F-34 VENT	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T17S-R35E-SEC34 F - LEA CTY, NM		

#### Sample ID: MONITOR WELL #1 (H244966-01)

Chloride, SM4500Cl-B (Water)	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	368	4.00	08/16/2024	ND	108	108	100	3.77	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	72.3	10.0	08/27/2024	ND	21.6	108	20.0	0.922	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	981	5.00	08/21/2024	9.00	525	105	500	1.20	

#### Sample ID: MONITOR WELL #2 (H244966-02)

Chloride, SM4500Cl-B (Water)	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	128	4.00	08/16/2024	ND	108	108	100	3.77	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	55.5	10.0	08/27/2024	ND	21.6	108	20.0	0.922	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	527	5.00	08/21/2024	9.00	525	105	500	1.20	

#### Cardinal Laboratories

\*=Accredited Analyte

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Celeg 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

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

01 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	ina	11	18	b	or	'a1	to	ri	es		Ir	ıc.		L		CH	Contract Sold Street	A COLUMN TWO IS NOT		-	and the second	DY A	AND	AN	IAL	YS	IS F	REQ	UE	ST	
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November 14, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: VACUUM F-34 VENT

Enclosed are the results of analyses for samples received by the laboratory on 11/05/24 8:28.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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

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

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

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

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

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Lab Reports

#### Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240		roject Number: oject Manager:		Reported: 14-Nov-24 14:45
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MONITOR WELL #1	H246718-01	Water	01-Nov-24 09:30	05-Nov-24 08:28
MONITOR WELL #2	H246718-02	Water	01-Nov-24 11:00	05-Nov-24 08:28

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Lab Reports

#### Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240	Project Number: Project Manager:		Reported: 14-Nov-24 14:45
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#### MONITOR WELL #1

#### H246718-01 (Water)

Analyte	Result	Reporting ult MDL Limit Units Dilution Batch Anal							Method	Notes			
	Cardinal Laboratories												
Inorganic Compounds													
Chloride*	376		4.00	mg/L	1	4110837	AC	11-Nov-24	4500-Cl-B				
Sulfate*	64.2		10.0	mg/L	1	4110620	HM	07-Nov-24	375.4				
TDS*	1090		5.00	mg/L	1	4110733	HM	08-Nov-24	160.1				

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240	Project:VACUUM F-34 VENTReported:Project Number:NOT GIVEN14-Nov-24 14:4Project Manager:KATIE JONESFax To:(575) 397-1471												
	MONITOR WELL #2 H246718-02 (Water)												
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes			
			Cardin	al Laborat	ories								
Inorganic Compounds													
Chloride*	108		4.00	mg/L	1	4110837	AC	11-Nov-24	4500-Cl-B				
Sulfate*	56.4		10.0	mg/L	1	4110620	HM	07-Nov-24	375.4				
TDS*	513		5.00	mg/L	1	4110733	HM	08-Nov-24	160.1				

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Lab Reports

#### Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240	Project: Project Number: Project Manager:		Reported: 14-Nov-24 14:45
	Fax To:	(575) 397-1471	

## Inorganic Compounds - Quality Control Cardinal Laboratories

Notes
Notes
QM-07
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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Lab Reports

#### Analytical Results For:

Rice Operating Company 112 W. Taylor Hobbs NM, 88240		Project: VACUUM F-34 VENT Project Number: NOT GIVEN Project Manager: KATIE JONES Fax To: (575) 397-1471													
	Inor	-	-	- Quality (	Control										
		Carun		oratories											
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes					
Batch 4110837 - General Prep - Wet C	hem														
LCS (4110837-BS1)				Prepared: (	)8-Nov-24 A	Analyzed: 1	1-Nov-24								
Chloride	112	4.00	mg/L	100		112	80-120								
LCS Dup (4110837-BSD1)				Prepared: (	)8-Nov-24 A	1-Nov-24									
Chloride	108	4.00	mg/L	100		108	80-120	3.64	20						
Duplicate (4110837-DUP1)	Sour	ce: H246717-	01	Prepared: (	)8-Nov-24 A	Analyzed: 1	1-Nov-24								
Chloride	92.0	4.00	mg/L		84.0			9.09	20						
Matrix Spike (4110837-MS1)	Sour	ce: H246717-	01	Prepared: (	)8-Nov-24 /	1-Nov-24									
Chloride	180	4.00	mg/L	100	84.0	96.0	80-120								

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Celey 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 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

Celey D. Keene, Lab Director/Quality Manager

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Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Operator:	OGRID:
RICE OPERATING COMPANY	19174
PO Box 5630	Action Number:
Hobbs, NM 88241	447151
	Action Type:
	[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

CONDITIONO		
Created By	Condition	Condition Date
amaxwell	Report accepted for record.	7/3/2025
amaxwell	Continue quarterly groundwater sampling and groundwater recovery.	7/3/2025
amaxwell	Submit a C-141N prior to all monitoring/sampling events.	7/3/2025

CONDITIONS

Page 34 of 34

Action 447151