# RICE Operating Company

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

April 1, 2025

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

## RE: 2024 Annual Groundwater Report Rice Operating Company – BD SWD System BD J-30 vent (1R426-217): UL/J, Sec. 30, T21S, R37E NMOCD Incident ID: nAPP2109655452

Mr. Buchanan:

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

## **Background and Previous Work**

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

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

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

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

On December 11-12<sup>th</sup>, 2018, ROC installed two monitor wells. MW-3 was installed downgradient and MW-1 was installed as a near-source monitoring well. On April 26th, 2019, an upgradient monitor well (MW-2) was installed. Lithology soil samples were collected from each well at regular intervals. The wells were developed and have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,360 mg/L in MW-1, 60 mg/L in MW-2, and 80 mg/L in MW-3. BTEX concentrations remained below detectable limits since the wells were installed. In 2020, ROC received NMOCD approval to cease BTEX sampling. On February 4th, 2022, NMOCD granted approval to cease sampling of MW-3, along with approval to cease sulfate sampling in all monitoring wells. ROC will continue quarterly sampling in 2025.

Attached is the Appendix, which contains:

- 1. NMOCD response to the 2023 Annual Report.
- 2. A Geographical Location Map.
- 3. An Area Map.
- 4. A map showing monitoring well locations and estimated groundwater gradient (generated by Peter Galusky of Terrae LLC).
- 5. A graph showing laboratory results, and a table presenting all laboratory results and depth to groundwater for each well at the site.
- 6. The laboratory analytical results for 2024.

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

Sincerely,

Kati Davis

Katie Davis **Environmental Manager RICE Operating Company (ROC)** 

appendix

From:	OCDOnline@state.nm.us
То:	Katie Jones
Subject:	The Oil Conservation Division (OCD) has approved the application, Application ID: 327833
Date:	Wednesday, September 18, 2024 4:04:34 PM

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#) nAPP2109655452, with the following conditions:

• Review of the 2023 Annual Groundwater Report for the ROC-BD SWD System BD J-30 vent (1R426-217): content satisfactory 1. Continue sampling on a quarterly basis as prescribed for remaining constituents. 2. Submit the 2024 annual 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 9:22:02 AM

# Geographical Location Map

Page 4 of 27



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Released to Imaging: 7/17/2025 3:50:56 PM

## MW-2 4Q 24 GW ELEV: 3383.02' 4 IN POLY 4 IN POLY 2 IN PVC 84 ft 4 IN POL **MW-1** 1 91 ft 4Q 24 GW ELEV: 3382.84 **Groundwater Flow** Direction **MW-3** 4Q 24 GW ELEV: 3382.46' Legend X REMOVED BOX NM ACTIVE MW OC ISOLATED LINE CTIVE ROCLINE ROC ISOLATED PROJECTED LINE CTIVE CONCRETE JCT BOX Landowner: Chevron USA STALLED 30'X30' CLAY LINER (0, 5' BGS DGW: 106 ft STALLED 84'x91', 20-MIL REINFORCED LINER (Q 4.5 FT BGS ALLE OPERATING GOMBAY GPS: 32.446879, -103.199905 BD J-30 VENT NAD 83 STATE PLANE PROJ NM EAST ZONE 1R426-217 0 10 20 LEGALS: UL J SECTION 30 Feet ННН **BINCE 1955** T-21-S R-37-E LEA COUNTY, NM Drawing date: 2/17/25 Drafted by: T. Grieco

## **Groundwater Flow Direction**



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

N 414/	1W Depth to Total		Well	Volume	Samala Data	Cl	TDS	Donzono	Taluana	Ethyl	Total	Sulfate	Commonte
	Water	Depth	Volume	Purged	Sample Date	U	103	Benzene	Toluene	Benzene	Xylenes	Sunate	Comments
1	106.38	141.6	23	75	12/26/2018	248	664	<0.001	<0.001	<0.001	<0.003	157	Clear No odor
1	106.51	141.6	23	75	2/26/2019	1,400	1,900	< 0.001	< 0.001	< 0.001	<0.003	52	Clear No odor
1	106.5	141.6	23	75	5/7/2019	1,080	2,120	< 0.001	< 0.001	<0.001	<0.003	65	Clear No odor
1	106.5	141.6	23	75	8/21/2019	1,100	2,220	<0.001	< 0.001	<0.001	<0.003	53	Clear No odor
1	106.54	141.6	23	75	11/7/2019	1,000	2,000	<0.001	<0.001	<0.001	<0.003	47	Clear No odor
1	106.47	141.6	22.8	75	2/25/2020	1,060	2,030	<0.001	<0.001	<0.001	<0.003	59	Clear No odor
1	106.47	141.6	22.8	75	8/31/2020	1,220	2,400	XXX	XXX	XXX	XXX	92	Clear No odor
1	106.44	141.6	23	75	3/3/2021	1,500	2,610	XXX	XXX	XXX	XXX	108	Clear No odor
1	106.48	141.6	23	75	6/28/2021	950	2,010	XXX	XXX	XXX	XXX	96.5	Clear No odor
1	106.45	141.6	23	75	9/1/2021	1,400	2,500	XXX	XXX	XXX	XXX	114	Clear No odor
1	106.46	141.6	23	75	11/2/2021	1,440	2,530	XXX	XXX	XXX	XXX	109	Clear No odor
1	106.43	141.6	23	75	2/22/2022	1,100	1,970	XXX	XXX	XXX	XXX	101	Clear No odor
1	106.42	141.6	23	75	5/26/2022	900	1,920	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	23	75	8/29/2022	870	1,830	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.42	141.6	23	75	11/9/2022	900	2,410	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	22.9	75	3/10/2023	1,100	1,940	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	5/17/2023	530	1,380	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	8/7/2023	1,220	2,930	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.41	141.6	22.9	75	10/18/2023	1,280	2,540	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	2/7/2024	1,580	2,820	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.38	141.6	22.9	75	5/23/2024	1,300	2,500	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.4	141.6	22.9	75	8/1/2024	1,380	2,840	XXX	XXX	XXX	XXX	XXX	Clear No odor
1	106.36	141.6	22.9	75	10/18/2024	1,360	2,470	XXX	XXX	XXX	XXX	XXX	Clear No odor

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	107.52	120.05	2	6	5/7/2019	100	459	<0.001	<0.001	<0.001	<0.003	91	Clear No odor

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

мw	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
	Water	Depth	Volume	Purged	Sample Date	CI	105	Delizene	Toluelle	Benzene	Xylenes	Junate	connents	
2	107.51	120.05	2	6	8/21/2019	56	400	<0.001	<0.001	<0.001	<0.003	74	Clear No odor	
2	107.55	120.05	2	6	11/7/2019	56	411	<0.001	<0.001	<0.001	<0.003	69	Clear No odor	
2	107.51	120.05	2	6	2/25/2020	52	454	<0.001	<0.001	<0.001	<0.003	81.8	Clear No odor	
2	107.5	120.05	2	3	8/31/2020	52	457	XXX	XXX	XXX	XXX	76.7	Clear No odor	
2	107.47	120.05	2	6	3/3/2021	56	440	XXX	XXX	XXX	XXX	88	Clear No odor	
2	107.52	120.05	2	6	6/28/2021	60	474	XXX	XXX	XXX	XXX	91.9	Clear No odor	
2	107.48	120.05	2	6	9/1/2021	56	459	XXX	XXX	XXX	XXX	91.2	Clear No odor	
2	107.45	120.05	2	6	11/2/2021	60	407	XXX	XXX	XXX	XXX	89.1	Clear No odor	
2	107.46	120.05	2	6	2/22/2022	64	459	XXX	XXX	XXX	XXX	78.6	Clear No odor	
2	107.46	120.05	2	6	5/26/2022	60	461	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.43	120.05	2	6	8/29/2022	60	464	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.45	120.05	2	6	11/9/2022	60	473	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.42	120.05	2	6	3/10/2023	60	377	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.41	120.05	2	6	5/17/2023	180	625	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.41	120.05	2	6	8/7/2023	36	395	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.42	120.05	2	6	10/18/2023	60	455	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.42	120.05	2	6	2/7/2024	56	503	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.42	120.05	2	6	5/23/2024	64	432	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.42	120.05	2	6	8/1/2024	56	502	XXX	XXX	XXX	XXX	XXX	Clear No odor	
2	107.38	120.05	2	6	10/18/2024	60	491	XXX	XXX	XXX	XXX	XXX	Clear No odor	

мw	Depth to	Total	Well	Volume	Sample Date Cl		TDS	Benzene	Toluene	Ethyl	Total	Sulfato	Comments
	Water	Depth	Volume	Purged	Sample Date	CI	103	Denzene	Toluelle	Benzene	Xylenes	Sullate	Comments
3	106.38	110.38	0.6	3	12/27/2018	116	321	<0.001	<0.001	<0.001	<0.003	107	Clear No odor
3	106.38	110.38	0.6	3	2/26/2019	136	478	<0.001	<0.001	<0.001	<0.003	86	Clear No odor
3	106.38	110.38	0.6	3	5/7/2019	68	531	<0.001	<0.001	<0.001	<0.003	83	Clear No odor
3	106.37	110.38	0.6	3	8/21/2019	96	536	< 0.001	<0.001	<0.001	<0.003	74	Clear No odor

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

мw	Depth to	Total	Well	Volume	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl	Total	Sulfate	Comments	
	Water	Depth	Volume	Purged						Benzene	Xylenes			
3	106.41	110.38	0.6	3	11/7/2019	96	547	<0.001	<0.001	<0.001	<0.003	78	Clear No odor	
3	106.34	110.3	0.6	3	2/25/2020	88	459	<0.001	<0.001	<0.001	<0.003	85.7	Clear No odor	
3	106.33	110.3	0.6	3	8/31/2020	52	452	XXX	XXX	XXX	XXX	72.7	Clear No odor	
3	106.3	110.38	0.6	3	3/3/2021	88	368	XXX	XXX	XXX	XXX	70.6	Clear No odor	
3	106.35	110.38	0.6	3	6/28/2021	96	552	XXX	XXX	XXX	XXX	78.7	Clear No odor	
3	106.32	110.38	0.6	3	9/1/2021	100	562	XXX	XXX	XXX	XXX	121	Clear No odor	
3	106.3	110.38	0.6	3	11/2/2021	56	423	XXX	XXX	XXX	XXX	87.8	Clear No odor	
3	106.3	110.38	0.6	3	2/22/2022	108	570	XXX	XXX	XXX	XXX	158	Clear No odor	
3	106.31	110.38	0.6	3	5/26/2022	104	532	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.29	110.38	0.6	3	8/29/2022	100	502	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.3	110.38	0.7	3	11/9/2022	180	818	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.28	110.3	0.6	3	3/10/2023	80	513	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.27	110.3	0.6	3	5/17/2023	224	846	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.27	110.3	0.6	3	8/7/2023	136	525	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.29	110.3	0.6	3	10/18/2023	80	516	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.75	110.3	0.6	3	2/7/2024	116	568	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.23	110.3	0.7	3	5/23/2024	92	522	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.26	110.3	0.6	3	8/1/2024	64	512	XXX	XXX	XXX	XXX	XXX	Clear No odor	
3	106.24	110.3	0.6	3	10/18/2024	80	535	XXX	XXX	XXX	XXX	XXX	Clear No odor	



February 22, 2024

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

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 02/13/24 11:20.

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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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:	02/13/2024	Sampling Date:	02/07/2024
Reported:	02/22/2024	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

#### Sample ID: MONITOR WELL #1 (H240672-01)

Chloride, SM4500Cl-B	mg,	mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1580	4.00	02/13/2024	ND	108	108	100	0.00	
TDS 160.1	mg/L		Analyze	Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2820	5.00	02/15/2024	ND	873	87.3	1000	1.43	

#### Sample ID: MONITOR WELL #2 (H240672-02)

Chloride, SM4500CI-B	mg,	mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	56.0	4.00	02/13/2024	ND	108	108	100	0.00	
TDS 160.1	mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	503	5.00	02/16/2024	ND	873	87.3	1000	1.43	

#### Sample ID: MONITOR WELL #3 (H240672-03)

Chloride, SM4500Cl-B	mg,	mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	116	4.00	02/13/2024	ND	108	108	100	0.00	
TDS 160.1	mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

#### 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 SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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RICE Operating Company roject Manager:		BILL T	E Op	era	ting		mpa	any			PO								a.					S F ecify										
Katie Jones		122 W		Addre r Stre		Hobb	s, Ne	w Me				, Zip)			]				1	1			Spe 					) 			1	1	1	1
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico Phone #:		(575)	1	Phone	e#:		ž.			4.3	Fax		397-	1471	1				200.7															
(575) 393-9174		) 397-	147	1					~						]		C35)		010B/															
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roject Location: T21S R37E Sec30 J~ Lea Co	ounty New Mexico		/	Samp	ler Si	ignati	ure	Ro	zann	e Joh	nnso	on (57	/5)631	-9310	1		05 Exte		r Pb S						25					100	HCO3)			
		1		MA	TRIP	6	4		SER	HOL	D	$\square$	SAN	IPLING	1		/ TX100		Ba Cd C	Da Cu	0			624	8270C/625		08			la, K)	CO3, HC	lids		
LAB # FIELD C	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	srunge	HCL (2 40ml VOA)	HNO <sub>3</sub>	NaHSO <sub>4</sub>	H <sub>2</sub> SO <sub>4</sub>	ICE (1-1Liter HDPE)	NONE	DATE (2024)	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005 / TX1005 Extended (C35)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200 TCI B Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200	TCI P Volatilae	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Moisture Content	ations (Ca, Mg, N	Anions (CI, SO4, C Sulfates	Total Dissolved Solids	Chlorides	
/ Monitor Well #1	G	1	X				Ť	-	-		1	-	2/7	14:05			H						1 CE	0	0	d I		8	2			×	X	t
Z Monitor Well #2	G	1	x								1		2/7	9:45													1					x	X	t
Monitor Well #3	G	1	x		+						1		2/7	11:05																		X	X	
$\square$																																		
	ne: Receiv	ed by:				/	1	Da	ate:	/	Tim	ne:	110	20	Pho	ne R	lesu	Ilts		Ye	es		No											
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June 05, 2024

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

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 05/29/24 9:55.

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/qa/lab\_accred\_certif.html">www.tceq.texas.gov/field/qa/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,

Whe Singh

Mike Snyder For 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:	05/29/2024	Sampling Date:	05/23/2024
Reported:	06/05/2024	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

#### Sample ID: MONITOR WELL #1 (H242964-01)

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*	1300	4.00	05/30/2024	ND	104	104	100	3.77	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2500	5.00	06/04/2024	8.00	843	84.3	1000	0.716	

#### Sample ID: MONITOR WELL #2 (H242964-02)

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*	64.0	4.00	05/30/2024	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	432	5.00	06/04/2024	8.00	843	84.3	1000	0.716	

#### Sample ID: MONITOR WELL #3 (H242964-03)

Chloride, SM4500CI-B (Water)	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	05/30/2024	ND	112	112	100	3.64	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	522	5.00	06/04/2024	8.00	843	84.3	1000	0.716	

#### Cardinal Laboratories

\*=Accredited Analyte

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mite Sugar

Mike Snyder For 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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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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August 14, 2024

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

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 08/07/24 9:11.

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:	08/07/2024	Sampling Date:	08/01/2024
Reported:	08/14/2024	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

#### Sample ID: MONITOR WELL #1 (H244739-01)

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*	1380	4.00	08/12/2024	ND	104	104	100	0.00	
TDS 160.1	mg,	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2840	5.00	08/12/2024	ND	843	84.3	1000	0.691	

#### Sample ID: MONITOR WELL #2 (H244739-02)

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*	56.0	4.00	08/12/2024	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	502	5.00	08/13/2024	ND	843	84.3	1000	0.691	

#### Sample ID: MONITOR WELL #3 (H244739-03)

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*	64.0	4.00	08/12/2024	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	512	5.00	08/13/2024	ND	843	84.3	1000	0.691	

#### 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 SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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October 28, 2024

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

RE: BD J-30 VENT

Enclosed are the results of analyses for samples received by the laboratory on 10/22/24 10:05.

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:	10/22/2024	Sampling Date:	10/18/2024
Reported:	10/28/2024	Sampling Type:	Water
Project Name:	BD J-30 VENT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T21S-R37E-SEC30 J-LEA CTY., NM		

#### Sample ID: MONITOR WELL #1 (H246423-01)

Chloride, SM4500Cl-B (Water)	mg,	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1360	4.00	10/23/2024	ND	104	104	100	0.00	
TDS 160.1	mg,	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	2470	5.00	10/24/2024	ND	830	83.0	1000	1.41	

#### Sample ID: MONITOR WELL #2 (H246423-02)

Chloride, SM4500Cl-B (Water)	mg	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	60.0	4.00	10/23/2024	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	491	5.00	10/24/2024	ND	830	83.0	1000	1.41	

#### Sample ID: MONITOR WELL #3 (H246423-03)

Chloride, SM4500CI-B (Water)	mg	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	80.0	4.00	10/23/2024	ND	104	104	100	0.00	
TDS 160.1	mg	/L	Analyze	d By: KV					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	535	5.00	10/24/2024	ND	830	83.0	1000	1.41	

#### 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



## **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 SM4500CI-B does not require samples be received at or below 6°C

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

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

11 East Marland - Hobbs, NM 88240 Tel (575) 393-2326 Fax (575) 393-2476	<b>Laboratories</b>	Inc.	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
mpany Name:	BILL TO Company:	PO#	LAB Order ID #
RICE Operating Company	RICE Operating Company Address: (Stree	04	ANALYSIS REQUEST (Circle or Specify Method No.)
Katie Jones	122 W Taylor Street ~ Hobbs, New Mexico 88	, City, Zip) 240	
Iress: (Street, City, Zip)	Phone#:	Fax#:	┫
22 W Taylor Street ~ Hobbs, New Mexico 88240 ne #: Fax #:	(575) 393-9174	(575)397-1471	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Pesticides TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi Vol. 8270C/625 Pesticides 8081A/608 BOD, TSS, pH Moisture Content Cations (Ca, Mg, Na, K) Anions (Cl, SO4, CO3, HCO3) Sulfates fotal Dissolved Solids
575) 393-9174 (575)	397-1471		335
ect #: Project Name: BD J-30 Vent	///		MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 Extended (C35) PAH 8270C Total Metals Ag As Ba Cd Cr Pb Se Hg 60106 TCLP Metals Ag As Ba Cd Cr Pb Se Hg TCLP Volatiles TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Pesticides TCLP Pesticides SC/MS Vol. 8260B/624 SC/MS Semi Vol 8270C/625 SC/MS Semi Vol 8270C/625 SC/MS Semi Vol 8270C/625 SC/MS Semi Vol 8270C/625 SC/MS Vol. 8260B/624 SC/MS Semi Vol 8270C/625 SC/MS SC/SC/SC/SC/SC/SC/SC/SC/SC/SC/SC/SC/SC/S
ect Location:	Samplar Signature: Rozanne J	ohnson (575)631-9310	
21S R37E Sec30 J~ Lea County New Mexico		Jinson (575)631-9310	03) 03
2111-125	MATRIX		MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / TX1005 E PAH 8270C Total Metals Ag As Ba Cd Cr Pb TCLP Metals Ag As Ba Cd Cr Pb TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Pesticides CMS Vol. 8260B/624 GC/MS Semi. Vol. 8270C/625 PCB's 8082/608 PCB's 8081A/608 PCB's 8081A/608 PCB's 8081A/608 PCB's 8081A/608 BOD, TSS, pH Moisture Content Cations (Cl, SO4, CO3, HCO3) Sulfates Total Dissolved Solids
24/6423 LAB# ₽	S METHO	U U	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / T) PAH 8270C Total Metals Ag As Ba C TCLP Metals Ag As Ba C TCLP Volatiles TCLP Volatiles TCLP Pesticides TCLP Pesticides RCI GC/MS Vol. 8260B/624 GC/MS Semi Vol. 8270 GC/MS Semi Vol. 8270 PCB's 8082/608 Pesticides 8081A/608 Pesticides 8081A/608 BOD, TSS, PH Moisture Content Moisture Content Cations (Cl, SO4, CO3, Suffates Chlorides
LAB # FIELD CODE du du (O) to qu (O)	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE SLUDGE HICL (2 40ml VOA) HNO3 HNO3 NaHSO4 H2SO4	ICE (1-1Liter HDPE) NONE DATE (2024) TIME	MTBE 8021B/602 BTEX 8021B/602 TPH 418.1/TX1005 / PAH 82705 Total Metals Ag As Ba TCLP Metals Ag As Ba TCLP Volatiles TCLP Volatiles TCLP Pesticides RCI CC/MS Vol. 8260B/62 GC/MS Semi Vol. 827 GC/MS Semi Vol. 827 BOD/TSS, pH Moisture Content Moisture Content Cations (Cl, SO4, CO3 Sulfates Chlorides
AB USE	1TAI A	ICE (1-1Liter H NONE DATE (2024) TIME	MTBE 8021B/60 BTEX 8021B/60 TPH 418.1/TX11 PAH 8270C Total Metals Ag TCLP Metals Ag TCLP Volattiles TCLP Volattiles TCLP Pesticides RCI TCLP Pesticides RCI GC/MS Vol. 8260 GC/MS Semi. Vo GC/MS Semi. Vo PCB's 8082/608 Pesticides 8081/ BOD, TSS, pH Moisture Conter Moisture Conter Cations (Cl, SO4 Sulfates Total Dissolved
ONLY a	# CONTA WATER SOIL AIR SLUDGE SLUDGE SLUDGE HNO <sub>3</sub> NaHSO <sub>4</sub> H <sub>2</sub> SO <sub>4</sub>	ICE (1-1 NONE DATE (3 TIME	MTBE 8021 BTEX 80211 FPH 418.1/ PAH 8270C Total Metals TCLP Metals TCLP Volatili TCLP Pestic RCI RCI RCI GC/MS Semi PCB's 8082/ Pesticides 8 BOD, TSS, p Pesticides 8 BOD, TSS, p Moisture Co Cations (Cl, 5 Sulfates Total Dissolv
		ICE ( NON DATE TIME	MTBE 8 BTEX 8 BTEX 8 BTEX 8 BTPH 411 PAH 821 Total Me TCLP Me TCLP Vo TCLP Vo TCLP Vo TCLP Pe RCI RCI RCI RCI RCI RCI RCI RCI RCI RCI
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angen 10 22 10:05 Receive	By (Laboratory Staff) Date:	Time: 1005	REMARKS:
	allarta del Maltin	10-22-24	Email Results: kjones@riceswd.com
ared By: (Circle One) Sample C	Cool Intact	BY:	rozanne@sdacres.com
	es Yes (Initials)		
pler - UPS - Bus - Other: N			

Released to Imaging: 7/17/2025 3:50:56 PM

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

General Information Phone: (505) 629-6116

Operator:

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

COND	TIONS
	OGRID:
RICE OPERATING COMPANY	19174
PO Box 5630	Action Number:
Hobbs, NM 88241	447050

Action Type:

[UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITION	S	
Created By	Condition	Condition Date
jburdine	Review of the 2024 Annual Groundwater Report for the ROC-BD SWD System BD J-30 vent (1R426-217): approved 1. Continue sampling on a quarterly basis as prescribed for remaining constituents. 2. Submit the 2025 annual report to OCD by April 1, 2026	7/17/2025

CONDITIONS

Action 447050