

RICE *Operating Company*

112 West Taylor • Hobbs, New Mexico 88240

Phone: (575) 393-9174 • Fax: (575) 397-1471

April 1, 2025**Michael Buchanan**

New Mexico Energy, Minerals, & Natural Resources

Oil Conservation Division, Environmental Bureau

1220 S. St. Francis Drive

Santa Fe, New Mexico 87505

RE: 2024 Annual Groundwater Report**Rice Operating Company – BD SWD System****BD Jct. B-4-2 (1R426-204): UL/B, Sec. 4, T22S, R37E****NMOCD Incident ID: nAPP2109656364**

Mr. Buchanan:

RICE Operating Company (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 1 mile south of Eunice, New Mexico at UL/B, Sec. 4, T22S, R37E as shown on the Geographic Location Map. Monitoring wells installed at the site confirmed groundwater is located at a depth of 92 feet below ground surface (bgs).

In 2008, ROC initiated work on the former B-4-2 junction box. The site was delineated using a backhoe to form a 30x25x12-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 (4-wall comp), excavation bottom (bottom comp), and the blended excavated soil (backfill comp). Each sample was sent to a commercial laboratory for analysis of chloride and TPH, resulting in elevated concentrations. The excavation was backfilled with the blended excavated soil up to 5 ft bgs, and a 5 ft shelf was excavated to the east and west. At 5–4 ft bgs, a 40x25x1-ft thick compacted clay barrier was installed. The clay layer will provide a barrier that will inhibit the downward migration of chloride to groundwater. The remaining blended excavated soil was returned to the excavation, and the site was contoured to the surrounding area.

An ICP was submitted to NMOCD on May 4th, 2015, and approved on May 7th, 2015. A total of eleven soil bores were drilled at the site on September 28th and 29th, 2015 and June 13th, 14th, 17th, 2016 and October 19th, 2016. As the bores were advanced, soil samples were collected at regular intervals and field tested for chloride and hydrocarbon. Representative samples from each bore were sent to a commercial laboratory for confirmatory analysis. Each bore hole was plugged with bentonite to ground surface.

A Corrective Action Plan (CAP) was submitted to the NMOCD and approved on June 30th, 2017. According to the NMOCD approved CAP, a 20-mil reinforced liner with the modified dimensions of 113x70-ft was installed and properly seated at a depth of 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 November 9th, 2017. NMOCD approved and 'Soil Closure' on December 11th, 2017.

Between November 13th-15th, 2018, three monitoring wells (MW-1, MW-2, and MW-3) were installed at the site. Lithology soil samples were collected at regular intervals. The wells were developed and have been sampled quarterly since installation. Groundwater chloride concentrations have remained low in each well. The most recent sampling event resulted in a chloride concentration of 480 mg/L in MW-1, 160 mg/L in MW-2, and 324 mg/L in MW-3. BTEX concentrations have remained below detectable limit in each well since installation. In 2020, ROC received NMOCD approval to cease BTEX sampling. On February 4th, 2022, NMOCD granted approval to cease sampling of both MW-2 and MW-3. ROC will continue quarterly sampling in 2025 and will continue to grab samples from MW-2 and MW-3, as necessary.

Attached is the Appendix, which contains:

1. NMOCD response to the 2023 Annual Report.
2. A Geographic 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,



Katie Davis
Environmental Manager
RICE Operating Company

appendix

From: OCDOnline@state.nm.us
To: [Katie Jones](#)
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 327834
Date: Monday, August 19, 2024 3:37:51 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#) nAPP2109656364, with the following conditions:

- **Review of the 2023 Annual Groundwater Report for ROC--BD SWD System BD Jct. B-4-2: content satisfactory 1. Continue to conduct groundwater sampling for the site as prescribed by OCD, for MW-2 and MW-3 until eight consecutive events are achieved below the WQCC human health standards for all constituents. 2. Submit the 2024 annual groundwater report to OCD by April 1, 2025.**

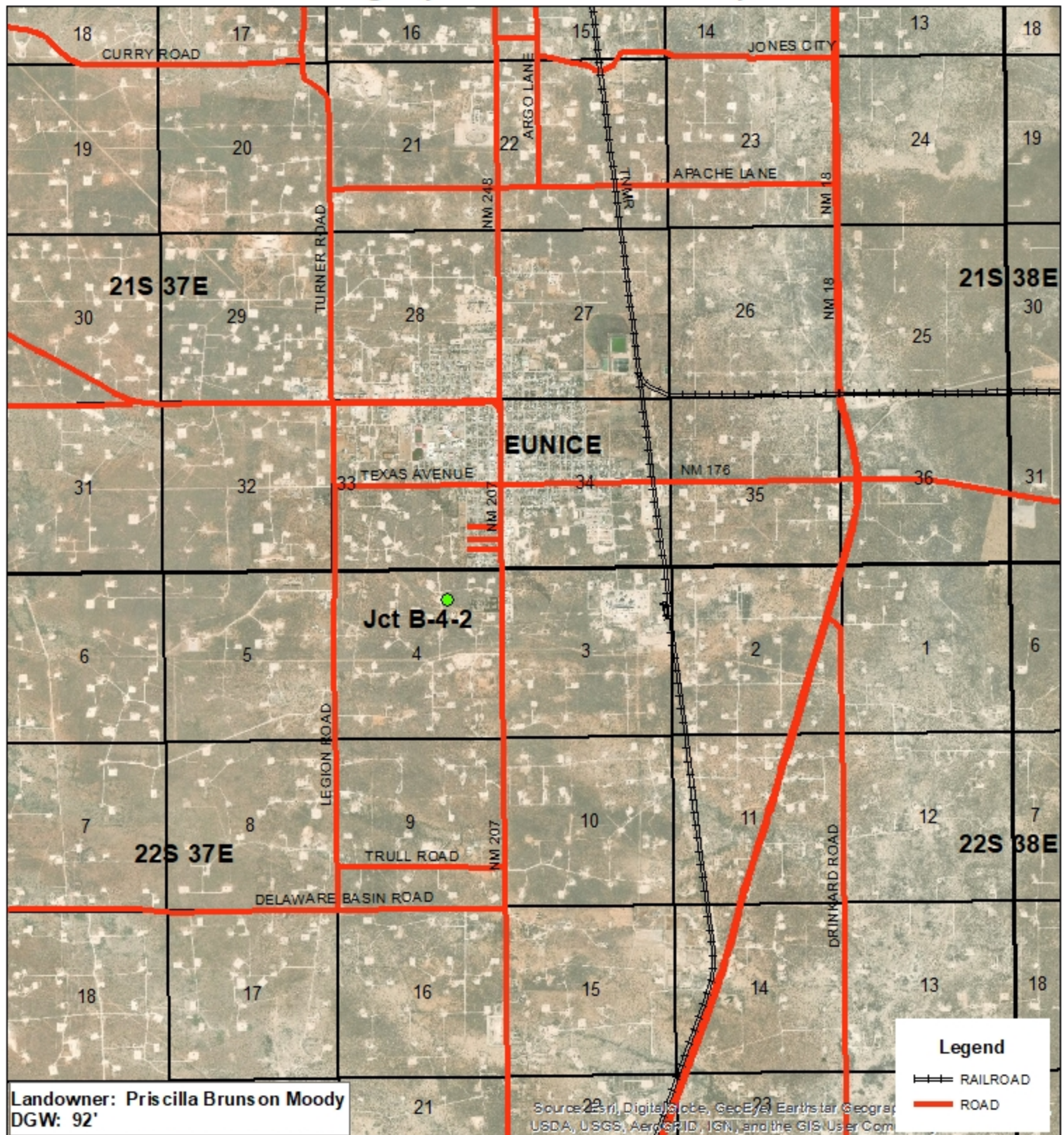
The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

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

Geographic Location Map



BD
JCT B-4-2
1R426-204

UL B, SECTION 4
T-22-S, R-37-E
LEA COUNTY, NM

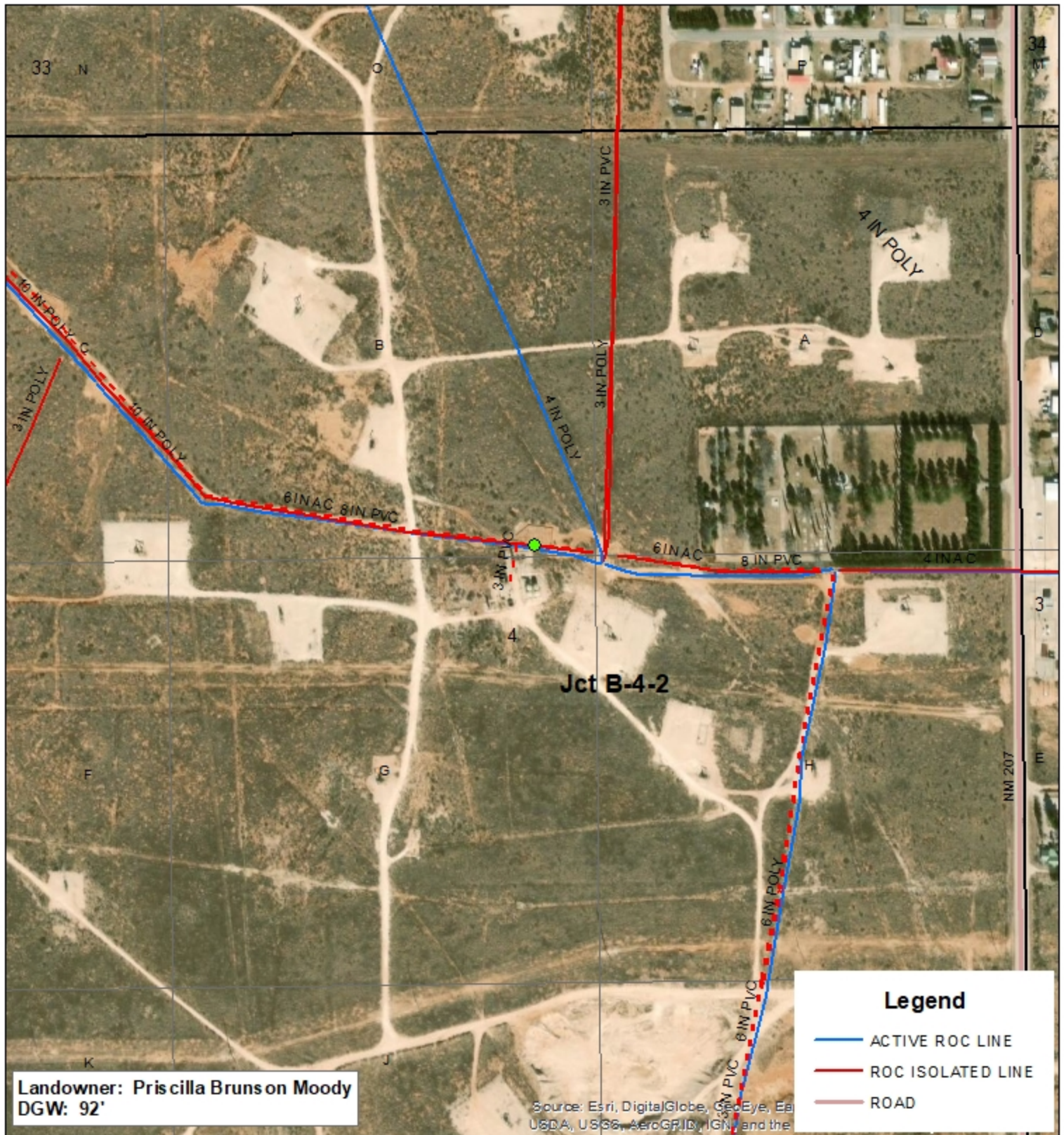
GPS: 32.424613 -103.164313
NAD 83 STATE PLANE PROJ.
NEW MEXICO EAST ZONE

0 0.5 1
Miles

Drawing date: 3/11/2015
Drafted by: S. Edwards



Area Map



Landowner: Priscilla Bruns on Moody
DGW: 92'

Source: Esri, DigitalGlobe, GeoEye, Earthstar, USDA, USGS, AeroGRID, IGN, and the...

Legend

- ACTIVE ROC LINE
- ROC ISOLATED LINE
- ROAD



BD
JCT B-4-2
1R426-204

UL B, SECTION 4
T-22-S, R-37-E
LEA COUNTY, NM

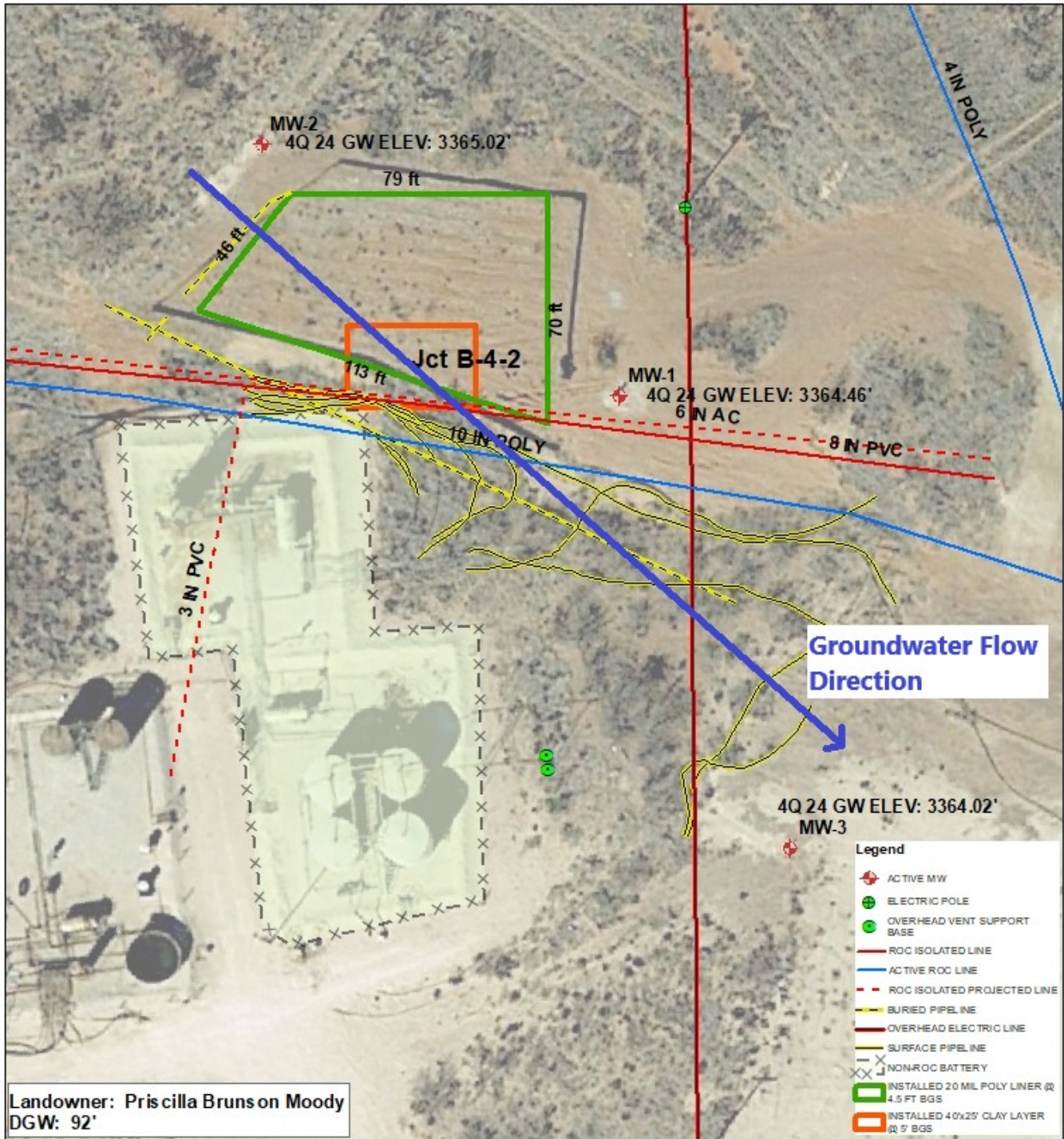
GPS: 32.424613 -103.164313
NAD 83 STATE PLANE PROJ.
NEW MEXICO EAST ZONE

0 250 500
Feet

Drawing date: 10/7.19
Drafted by: T. Grieco



Groundwater Flow Direction



BD
JCT B-4-2
1R426-204

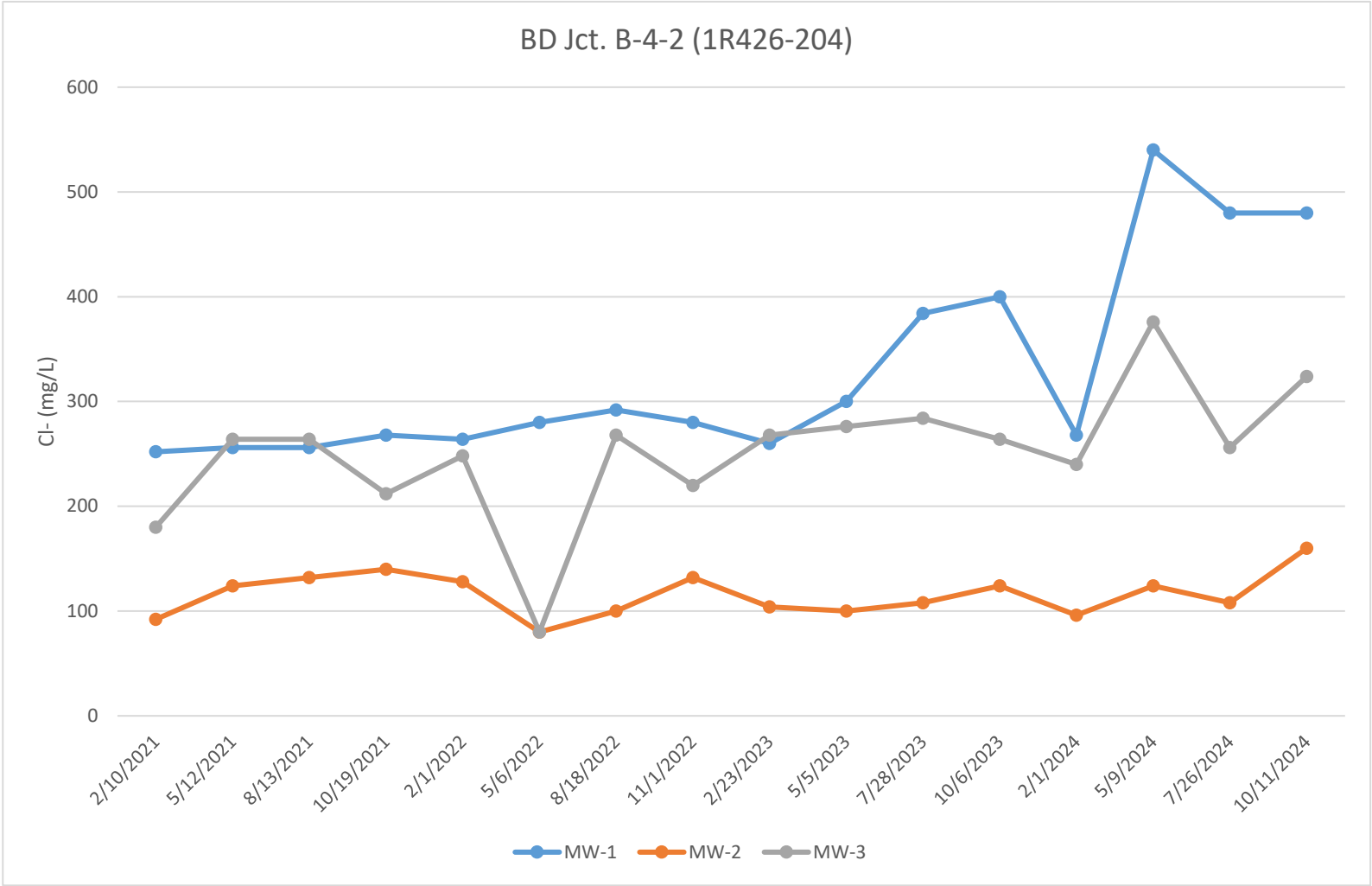
UL B, SECTION 4
T-22-S, R-37-E
LEA COUNTY, NM

GPS: 32.424613 -103.164313
NAD 83 STATE PLANE PROJ.
NEW MEXICO EAST ZONE

0 25 50
Feet

Drawing date: 2/17/25
Drafted by: T. Grieco





ROC - BD Jct. B-4-2 (1R426-204)**Unit Letter B, Section 4, T22S, R37E**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	92.83	137.9	30	100	12/24/2018	180	759	<0.001	<0.001	<0.001	<0.003	272	Clear No odor
1	92.5	137.9	29.5	100	2/7/2019	188	841	<0.001	<0.001	<0.001	<0.003	349	Clear No odor
1	92.63	137.9	29.4	100	4/24/2019	232	866	<0.001	<0.001	<0.001	<0.003	151	Clear No odor
1	92.56	137.9	29.5	100	7/24/2019	200	1,030	<0.001	<0.001	<0.001	<0.003	291	Clear No odor
1	92.41	137.9	29.6	100	10/29/2019	176	963	<0.001	<0.001	<0.001	<0.003	253	Clear No odor
1	92.4	137.9	29.6	100	2/19/2020	260	983	<0.0005	<0.0005	<0.0005	<0.002	117	Clear No odor
1	92.43	137.9	29.6	100	5/28/2020	248	751	XXX	XXX	XXX	XXX	189	Clear No odor
1	92.34	137.9	29.6	100	8/25/2020	252	1,010	XXX	XXX	XXX	XXX	196	Clear No odor
1	92.35	137.9	29.6	100	10/29/2020	248	871	XXX	XXX	XXX	XXX	137	Clear No odor
1	92.29	137.9	30	100	2/10/2021	252	965	XXX	XXX	XXX	XXX	191	Clear No odor
1	92.3	137.9	30	100	5/12/2021	256	1,020	XXX	XXX	XXX	XXX	227	Clear No odor
1	92.28	137.9	30	100	8/13/2021	256	1,000	XXX	XXX	XXX	XXX	182	Clear No odor
1	92.15	137.9	30	100	10/19/2021	268	986	XXX	XXX	XXX	XXX	146	Clear No odor
1	92.19	137.9	30	100	2/1/2022	264	968	XXX	XXX	XXX	XXX	204	Clear No odor
1	92.23	137.9	30	100	5/6/2022	280	977	XXX	XXX	XXX	XXX	147	Clear No odor
1	92.35	137.9	30	100	8/18/2022	292	1,010	XXX	XXX	XXX	XXX	160	Clear No odor
1	92.39	137.9	30	100	11/1/2022	280	1,070	XXX	XXX	XXX	XXX	175	Clear No odor
1	92.01	137.9	29.8	100	2/23/2023	260	944	XXX	XXX	XXX	XXX	168	Clear No odor
1	92.49	137.9	29.5	100	5/5/2023	300	1,130	XXX	XXX	XXX	XXX	194	Clear No odor
1	92.54	137.9	29.5	100	7/28/2023	384	1,260	XXX	XXX	XXX	XXX	251	Clear No odor
1	92.59	137.9	29.5	100	10/6/2023	400	1,190	XXX	XXX	XXX	XXX	204	Clear No odor
1	92.39	137.9	29.6	100	2/1/2024	268	921	XXX	XXX	XXX	XXX	185	Clear No odor
1	92.16	137.9	29.7	100	5/9/2024	540	1,140	XXX	XXX	XXX	XXX	171	Clear No odor
1	92.32	137.9	29.6	100	7/26/2024	480	1,240	XXX	XXX	XXX	XXX	225	Clear No odor
1	92.24	137.9	29.7	100	10/11/2024	480	1,350	XXX	XXX	XXX	XXX	231	Clear No odor

ROC - BD Jct. B-4-2 (1R426-204)**Unit Letter B, Section 4, T22S, R37E**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	93.92	100.85	1.1	5	12/24/2018	120	574	<0.001	<0.001	<0.001	<0.003	179	Clear No odor
2	93.52	100.85	1.2	5	2/7/2019	92	650	<0.001	<0.001	<0.001	<0.003	155	Clear No odor
2	93.65	100.85	1.2	5	4/24/2019	88	646	<0.001	<0.001	<0.001	<0.003	124	Clear No odor
2	93.6	100.85	1.2	5	7/24/2019	80	577	<0.001	<0.001	<0.001	<0.003	180	Clear No odor
2	93.38	100.85	1.2	5	10/29/2019	80	569	<0.001	<0.001	<0.001	<0.003	101	Clear No odor
2	93.38	100.85	1.2	5	2/19/2020	92	598	<0.0005	<0.0005	<0.0005	<0.002	80.2	Clear No odor
2	93.41	100.85	1.2	5	5/28/2020	100	704	XXX	XXX	XXX	XXX	179	Clear No odor
2	93.32	100.85	1.2	5	8/25/2020	88	647	XXX	XXX	XXX	XXX	134	Clear No odor
2	93.38	100.85	1.2	5	10/29/2020	84	500	XXX	XXX	XXX	XXX	117	Clear No odor
2	92.29	100.85	1.2	5	2/10/2021	92	593	XXX	XXX	XXX	XXX	130	Clear No odor
2	93.34	100.85	1.2	5	5/12/2021	124	522	XXX	XXX	XXX	XXX	113	Clear No odor
2	93.33	100.85	1.2	5	8/13/2021	132	645	XXX	XXX	XXX	XXX	87.8	Clear No odor
2	93.21	100.85	1.2	5	10/19/2021	140	635	XXX	XXX	XXX	XXX	78.2	Clear No odor
2	93.18	100.85	1.5	5	2/1/2022	128	596	XXX	XXX	XXX	XXX	115	Clear No odor
2	93.25	100.85	1.5	5	5/6/2022	80	606	XXX	XXX	XXX	XXX	113	Clear No odor
2	93.36	100.85	1.2	5	8/18/2022	100	666	XXX	XXX	XXX	XXX	137	Clear No odor
2	93.4	100.85	1.2	5	11/1/2022	132	666	XXX	XXX	XXX	XXX	111	Clear No odor
2	93.09	100.85	1.2	5	2/23/2023	104	577	XXX	XXX	XXX	XXX	133	Clear No odor
2	93.56	100.85	1.2	5	5/5/2023	100	658	XXX	XXX	XXX	XXX	135	Clear No odor
2	93.59	100.85	1.2	5	7/28/2023	108	558	XXX	XXX	XXX	XXX	92.1	Clear No odor
2	93.65	100.85	1.2	5	10/6/2023	124	605	XXX	XXX	XXX	XXX	134	Clear No odor
2	93.46	100.85	1.2	5	2/1/2024	96	671	XXX	XXX	XXX	XXX	132	Clear No odor
2	93.2	100.85	1.2	5	5/9/2024	124	589	XXX	XXX	XXX	XXX	121	Clear No odor
2	93.33	100.85	1.2	5	7/26/2024	108	434	XXX	XXX	XXX	XXX	121	Clear No odor
2	93.28	100.85	1.2	5	10/11/2024	160	616	XXX	XXX	XXX	XXX	86.9	Clear No odor

ROC - BD Jct. B-4-2 (1R426-204)**Unit Letter B, Section 4, T22S, R37E**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	89.58	101.35	1.9	6	12/24/2018	220	807	<0.001	<0.001	<0.001	<0.003	187	Clear No odor
3	89.28	101.35	1.9	6	2/7/2019	216	916	<0.001	<0.001	<0.001	<0.003	177	Clear No odor
3	89.38	101.35	1.9	6	4/24/2019	228	906	<0.001	<0.001	<0.001	<0.003	144	Clear No odor
3	89.34	101.35	1.9	6	7/24/2019	236	915	<0.001	<0.001	<0.001	<0.003	158	Clear No odor
3	89.19	101.35	1.9	6	10/29/2019	236	900	<0.001	<0.001	<0.001	<0.003	191	Clear No odor
3	89.15	101.35	2	6	2/19/2020	248	892	<0.0005	<0.0005	<0.0005	<0.002	91.2	Clear No odor
3	89.17	101.35	1.9	6	5/28/2020	236	944	XXX	XXX	XXX	XXX	188	Clear No odor
3	89.07	101.35	2	6	8/25/2020	228	936	XXX	XXX	XXX	XXX	140	Clear No odor
3	89.13	101.35	2	6	10/29/2020	248	824	XXX	XXX	XXX	XXX	141	Clear No odor
3	89.05	101.35	2	6	2/10/2021	180	890	XXX	XXX	XXX	XXX	259	Clear No odor
3	89.05	101.35	2	6	5/12/2021	264	965	XXX	XXX	XXX	XXX	206	Clear No odor
3	89.02	101.35	2	6	8/13/2021	264	1,310	XXX	XXX	XXX	XXX	152	Clear No odor
3	88.88	101.35	2	6	10/19/2021	212	825	XXX	XXX	XXX	XXX	117	Clear No odor
3	88.97	101.35	2	6	2/1/2022	248	977	XXX	XXX	XXX	XXX	194	Clear No odor
3	89.02	101.35	2	6	5/6/2022	260	963	XXX	XXX	XXX	XXX	164	Clear No odor
3	89.11	101.35	2	6	8/18/2022	268	1,020	XXX	XXX	XXX	XXX	169	Clear No odor
3	89.15	101.35	2	6	11/1/2022	220	959	XXX	XXX	XXX	XXX	161	Clear No odor
3	88.79	101.35	2	6	2/23/2023	268	969	XXX	XXX	XXX	XXX	170	Clear No odor
3	89.29	101.35	1.9	6	5/5/2023	276	1,090	XXX	XXX	XXX	XXX	169	Clear No odor
3	89.32	101.35	1.9	6	7/28/2023	284	1,020	XXX	XXX	XXX	XXX	153	Clear No odor
3	89.38	101.35	1.9	6	10/6/2023	264	944	XXX	XXX	XXX	XXX	247	Clear No odor
3	89.17	101.35	1.9	6	2/1/2024	240	995	XXX	XXX	XXX	XXX	141	Clear No odor
3	88.92	101.35	2	6	5/9/2024	376	1,210	XXX	XXX	XXX	XXX	198	Clear No odor
3	89.05	101.35	2	6	7/26/2024	256	954	XXX	XXX	XXX	XXX	188	Clear No odor
3	88.98	101.35	2	6	10/11/2024	324	1,140	XXX	XXX	XXX	XXX	253	Clear No odor



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

February 21, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 02/07/24 8:20.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/01/2024
Reported:	02/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H240572-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	268	4.00	02/08/2024	ND	104	104	100	3.92		
Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	185	50.0	02/08/2024	ND	21.4	107	20.0	2.79		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	921	5.00	02/12/2024	ND	833	83.3	1000	1.18		

Sample ID: MONITOR WELL #2 (H240572-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	96.0	4.00	02/08/2024	ND	104	104	100	3.92		
Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	132	25.0	02/08/2024	ND	21.4	107	20.0	2.79		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	671	5.00	02/12/2024	ND	833	83.3	1000	1.18		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/07/2024	Sampling Date:	02/01/2024
Reported:	02/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Dionica Hinojos
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H240572-03)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	240	4.00	02/08/2024	ND	104	104	100	3.92		
Sulfate 375.4		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	141	50.0	02/08/2024	ND	21.4	107	20.0	2.79		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	995	5.00	02/12/2024	ND	833	83.3	1000	1.18		

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 samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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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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A handwritten signature in black ink, appearing to read "Celey D. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager

101 East Marland - Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

Company Name: RICE Operating Company		BILL TO Company: RICE Operating Company		PO#
Project Manager: Katie Jones		Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240		
Address: (Street, City, Zip) 122 W Taylor Street ~ Hobbs, New Mexico 88240		Phone#: (575) 393-9174		Fax#: (575) 397-1471
Phone #: (575) 393-9174		Fax #: (575) 397-1471		
Project #:		Project Name: BD Junction B-4-2		

Project Location: **T22S R37E Sec2 B ~ Lea County New Mexico**
Sampler Signature: *Rozanne Johnson* (575) 393-9310

22S R3/E Sec2 B ~ Lea County New Mexico															
H2-10572 LAB # (LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCL (2 40ml VOA)	HNO ₃	NaHSO ₄	H ₂ SO ₄	ICE (1-1Liter HDPE)	NONE	DATE (2024)	TIME
	Monitor Well #1	G	1	X								1		2/1	13:50
	Monitor Well #2	G	1	X								1		2/1	10:10
	Monitor Well #3	G	1	X								1		2/1	15:00

MTBE 8021B/602																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Relinquished by: <i>Rozanne Johnson</i>	Date: 2/7/2024	Time: 7:15	Received by: <i>Rozanne Johnson</i>	Date: 2/7/2024	Time: 7:16
Relinquished by: <i>Rozanne Johnson</i>	Date: 2/7/2024	Time: 7:15	Received By: (Laboratory Staff)	Date: 2/7/24	Time: 8:20
Delivered By: (Circle One) UPS	Sample Condition	CHECKED BY:			
	Cool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials) <i>[Signature]</i>		

Phone Results	Yes	No
Fax Results	Yes	No

REMARKS:
Email Results: kjones@riceswd.com
rozanne@sdacres.com



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

May 21, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 05/13/24 10:08.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/09/2024
Reported:	05/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H242588-01)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	540	4.00	05/14/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	171	50.0	05/14/2024	ND	21.7	109	20.0	18.6		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1140	20.0	05/20/2024	14.0	841	84.1	1000	0.280		

Sample ID: MONITOR WELL #2 (H242588-02)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	124	4.00	05/14/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	121	25.0	05/14/2024	ND	21.7	109	20.0	18.6		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	589	20.0	05/20/2024	14.0	841	84.1	1000	0.280		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	05/13/2024	Sampling Date:	05/09/2024
Reported:	05/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H242588-03)

Chloride, SM4500Cl-B		mg/L		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	376	4.00	05/14/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	198	50.0	05/14/2024	ND	21.7	109	20.0	18.6		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1210	20.0	05/20/2024	14.0	841	84.1	1000	0.280		

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Celey D. Keene, Lab Director/Quality Manager



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

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

August 09, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 07/31/24 10:47.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 07/31/2024
 Reported: 08/09/2024
 Project Name: BD JUNCTION B-4-2
 Project Number: NONE GIVEN
 Project Location: T22S-R37E-SEC2 B-LEA CTY., NM

Sampling Date: 07/26/2024
 Sampling Type: Water
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: MONITOR WELL #1 (H244557-01)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	480	4.00	08/07/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	225	50.0	08/07/2024	ND	20.4	102	20.0	4.04		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1240	10.0	08/06/2024	9.00	858	85.8	1000	2.86		

Sample ID: MONITOR WELL #2 (H244557-02)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	108	4.00	08/07/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	121	25.0	08/07/2024	ND	20.4	102	20.0	4.04		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	434	10.0	08/06/2024	9.00	858	85.8	1000	2.86		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	07/31/2024	Sampling Date:	07/26/2024
Reported:	08/09/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H244557-03)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	256	4.00	08/07/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	188	50.0	08/07/2024	ND	20.4	102	20.0	4.04		
TDS 160.1		mg/L		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	954	10.0	08/06/2024	9.00	858	85.8	1000	2.86		

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Celey D. Keene, Lab Director/Quality Manager



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

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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

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 Semi Volatiles	
TCLP Pesticides	
RCI	
GC/MS Vol.	8260B/624
GC/MS Semi. Vol.	8270C/625
PCB's	8082/608
Pesticides	8081A/608
BOD, TSS, pH	
Moisture Content	
Cations (Ca, Mg, Na, K)	
Anions (Cl, SO ₄ , CO ₃ , HCO ₃)	
Sulfates	X
Total Dissolved Solids	X
Chlorides	X
Turn Around Time ~	24 Hours

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

Relinquished by: <i>Shirley Johnson</i>	Date: <i>7/31/2024</i>	Time: <i>7:40</i>	Received by: <i>Shirley Johnson</i>	Date: <i>7/31/2024</i>	Time: <i>7:41</i>
Relinquished by: <i>Shirley Johnson</i>	Date: <i>7/31/2024</i>	Time: <i>7:41</i>	Received By: (Laboratory Staff) <i>Shirley Johnson</i>	Date: <i>7-31-24</i>	Time: <i>1047</i>
Delivered By: (Circle One) <i>UPS</i>			Sample Condition	CHECKED BY:	
			Cool Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Intact Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	(Initials) <i>JS</i>



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

October 21, 2024

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD JUNCTION B-4-2

Enclosed are the results of analyses for samples received by the laboratory on 10/15/24 15:04.

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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2024	Sampling Date:	10/11/2024
Reported:	10/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H246276-01)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	480	4.00	10/18/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	231	50.0	10/17/2024	ND	21.1	106	20.0	13.4		
TDS 160.1		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1350	5.00	10/16/2024	13.0	805	80.5	1000	6.46		

Sample ID: MONITOR WELL #2 (H246276-02)

Chloride, SM4500Cl-B (Water)		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	160	4.00	10/18/2024	ND	104	104	100	0.00		
Sulfate 375.4		mg/L		Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	86.9	25.0	10/17/2024	ND	21.1	106	20.0	13.4		
TDS 160.1		mg/L		Analyzed By: KV						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	616	5.00	10/16/2024	13.0	805	80.5	1000	6.46		

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	10/15/2024	Sampling Date:	10/11/2024
Reported:	10/21/2024	Sampling Type:	Water
Project Name:	BD JUNCTION B-4-2	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Alyssa Parras
Project Location:	T22S-R37E-SEC2 B-LEA CTY., NM		

Sample ID: MONITOR WELL #3 (H246276-03)

Chloride, SM4500Cl-B (Water)			mg/L							
			Analyzed By: KV							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride*	324	4.00	10/18/2024	ND	104	104	100	0.00		
Sulfate 375.4			mg/L							
			Analyzed By: CT							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Sulfate*	253	50.0	10/17/2024	ND	21.1	106	20.0	13.4		
TDS 160.1			mg/L							
			Analyzed By: KV							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
TDS*	1140	5.00	10/16/2024	13.0	805	80.5	1000	6.46		

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Celey D. Keene, Lab Director/Quality Manager



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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. Keene, Lab Director/Quality Manager

Cardinal Laboratories, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST

(Circle or Specify Method No.)

[illegible]

Received by:	Date:	Time:
<i>A. James</i>	<i>10/5/24</i>	<i>1504</i>
Received By: (Laboratory Staff)	Date:	Time:

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:

REMARKS:

Email Results: kjones@riceswd.com
rozanne@sdacres.com

Sample Condition	CHECKED BY:
------------------	-------------

(Initials)

~~Sampler~~ - UPS - Bus - Other:

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

Action 447053

CONDITIONS

Operator: RICE OPERATING COMPANY PO Box 5630 Hobbs, NM 88241	OGRID: 19174
	Action Number: 447053
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Report accepted for record.	7/2/2025
amaxwell	Continue monitoring and sampling.	7/2/2025
amaxwell	Submit a C-141N prior to each monitoring/sampling event.	7/2/2025