

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 16th, 2007, the site was seeded with a blend of native vegetation. To further investigate the presence of chloride, two soil bores were drilled on April 18th, 2007. Soil samples were collected at regular intervals and field titrated for chlorides. Representative samples from each bore were sent to a commercial laboratory resulting in elevated chloride concentrations. Each bore hole was plugged with bentonite to ground surface. NMOCD was notified of potential groundwater impact on August 5th, 2008. A junction box disclosure report was submitted to NMOCD with all the 2009 junction box closures and disclosures.

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

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

On December 11-12th, 2018, ROC installed two monitor wells. MW-3 was installed down-gradient and MW-1 was installed as a near-source monitoring well. On April 26th, 2019, an up-gradient monitor well (MW-2) was installed. Lithology soil samples were collected from each well at regular intervals. The wells were developed and have been sampled regularly since installation. The most recent sampling event resulted in a chloride concentration of 1,360 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,



Katie Davis
Environmental Manager
RICE Operating Company (ROC)

appendix

From: OCDOnline@state.nm.us
To: [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**

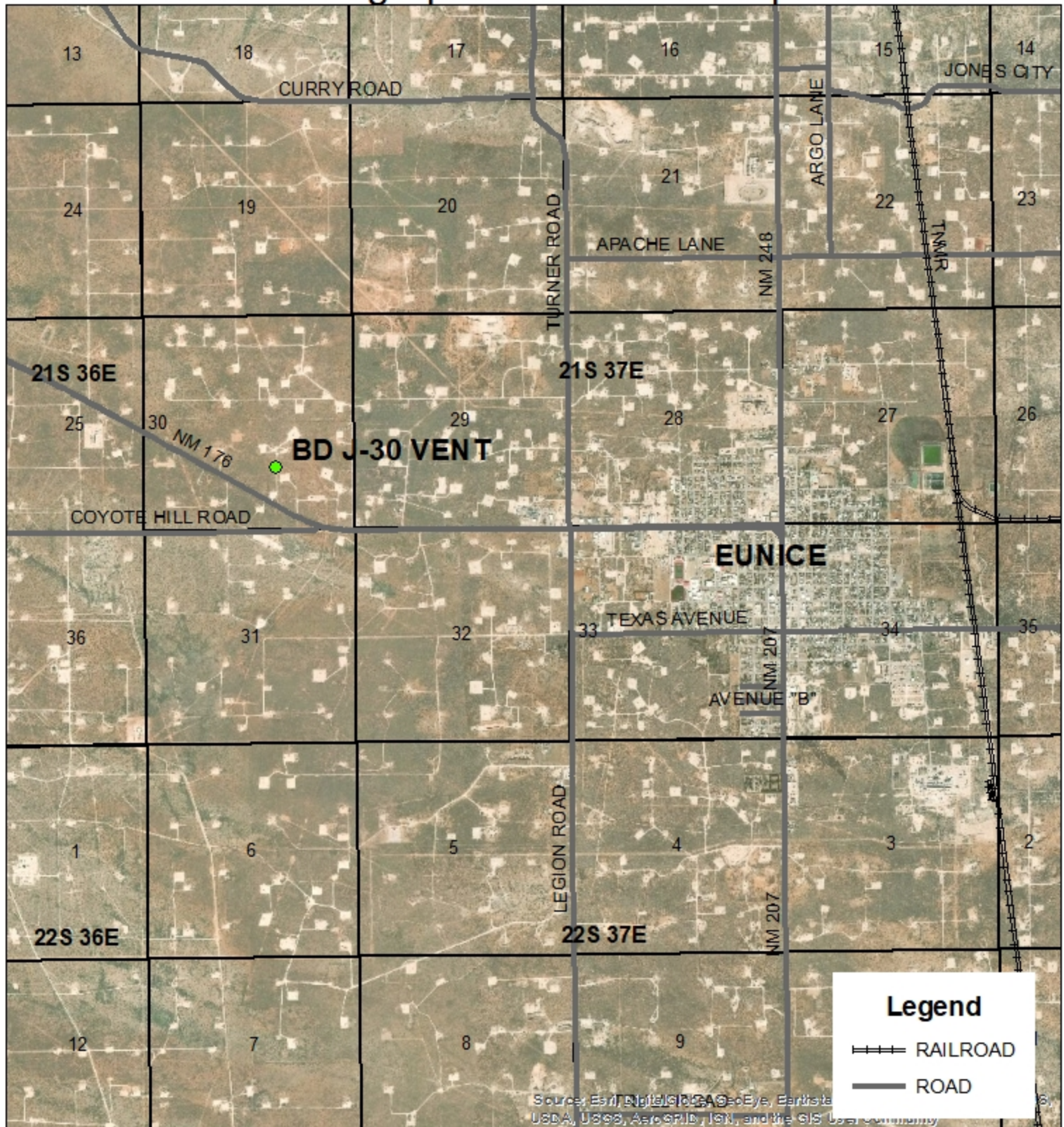
The signed GROUND WATER ABATEMENT can be found in the OCD Online: Imaging under the incident ID (n#).

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

Geographical Location Map

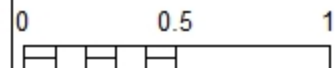


BD J-30 VENT

1R426-217

LEGALS: UL J SECTION 30
T-21-S R-37-E
LEA COUNTY, NM

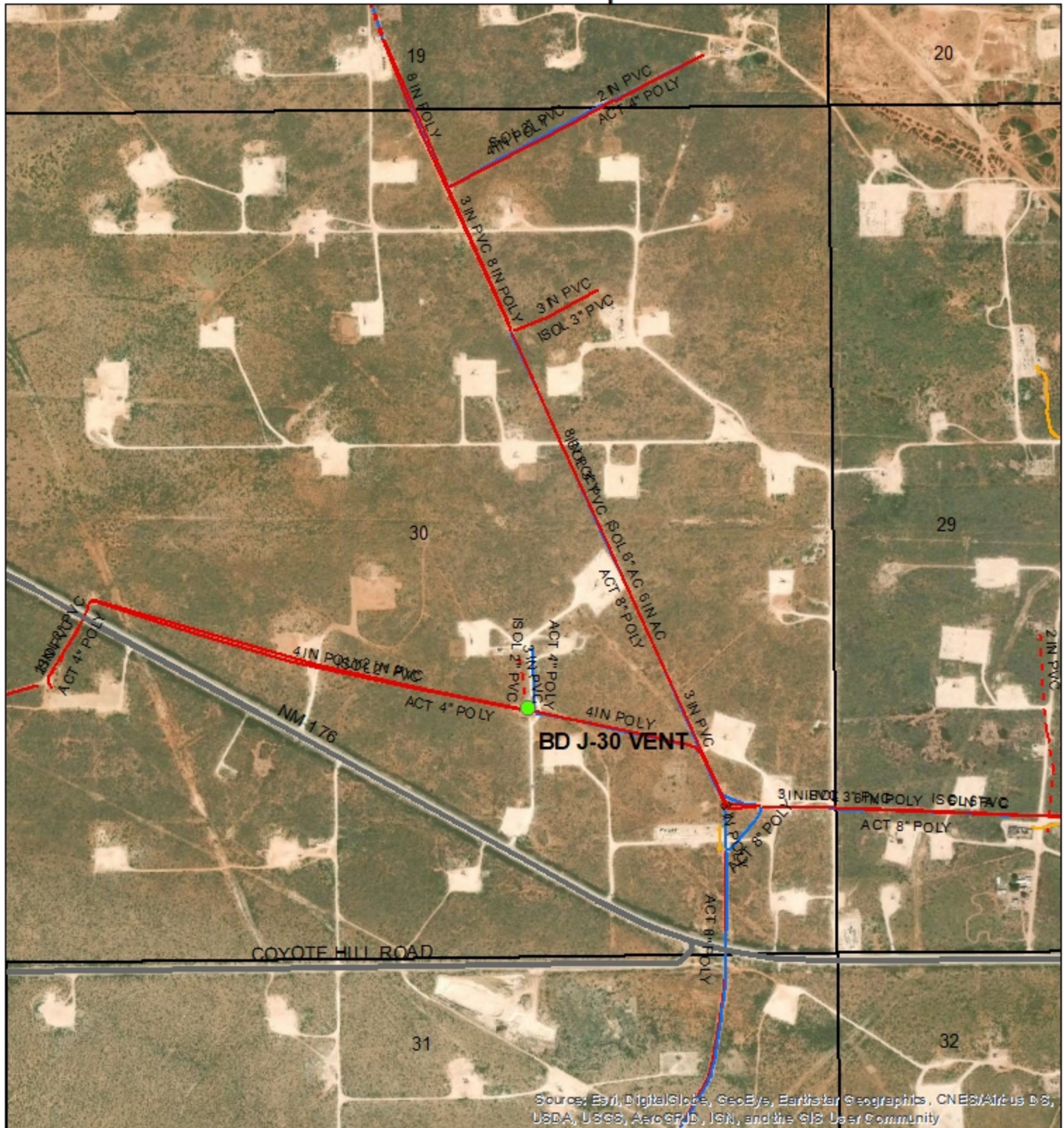
GPS: 32.446879, -103.199905
NAD 83 STATE PLANE PROJ
NM EAST ZONE



Drawing date: 1/28/20
Drafted by: T. Grieco



Area Map



Sources: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



BD J-30 VENT

1R426-217

LEGALS: UL J SECTION 30
T-21-S R-37-E
LEA COUNTY, NM

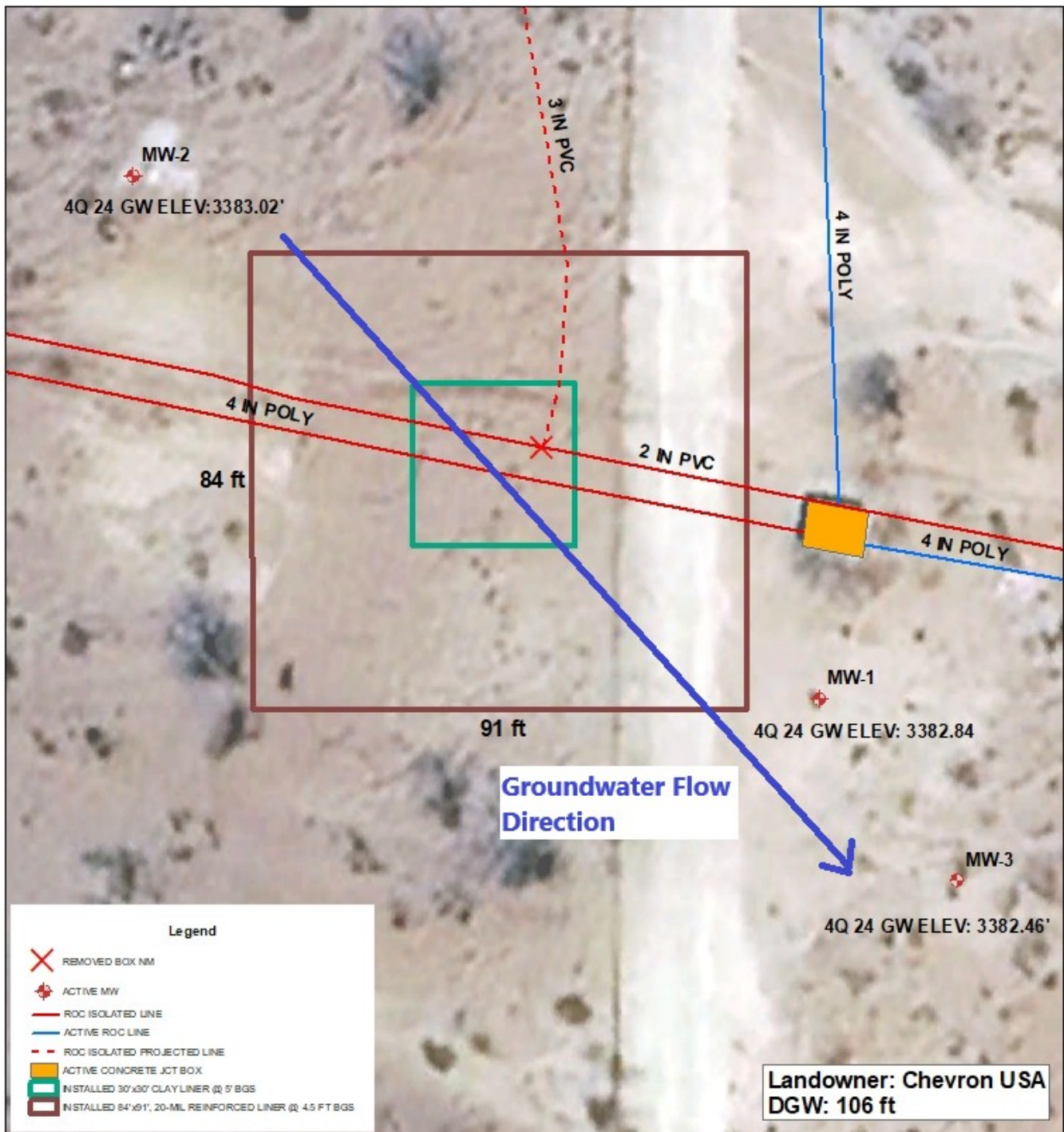
GPS: 32.446879, -103.199905
NAD 83 STATE PLANE PROJ
NM EAST ZONE

0 500 1,000
Feet

Drawing date: 1/28/20
Drafted by: T. Grieco



Groundwater Flow Direction



BD J-30 VENT

1R426-217

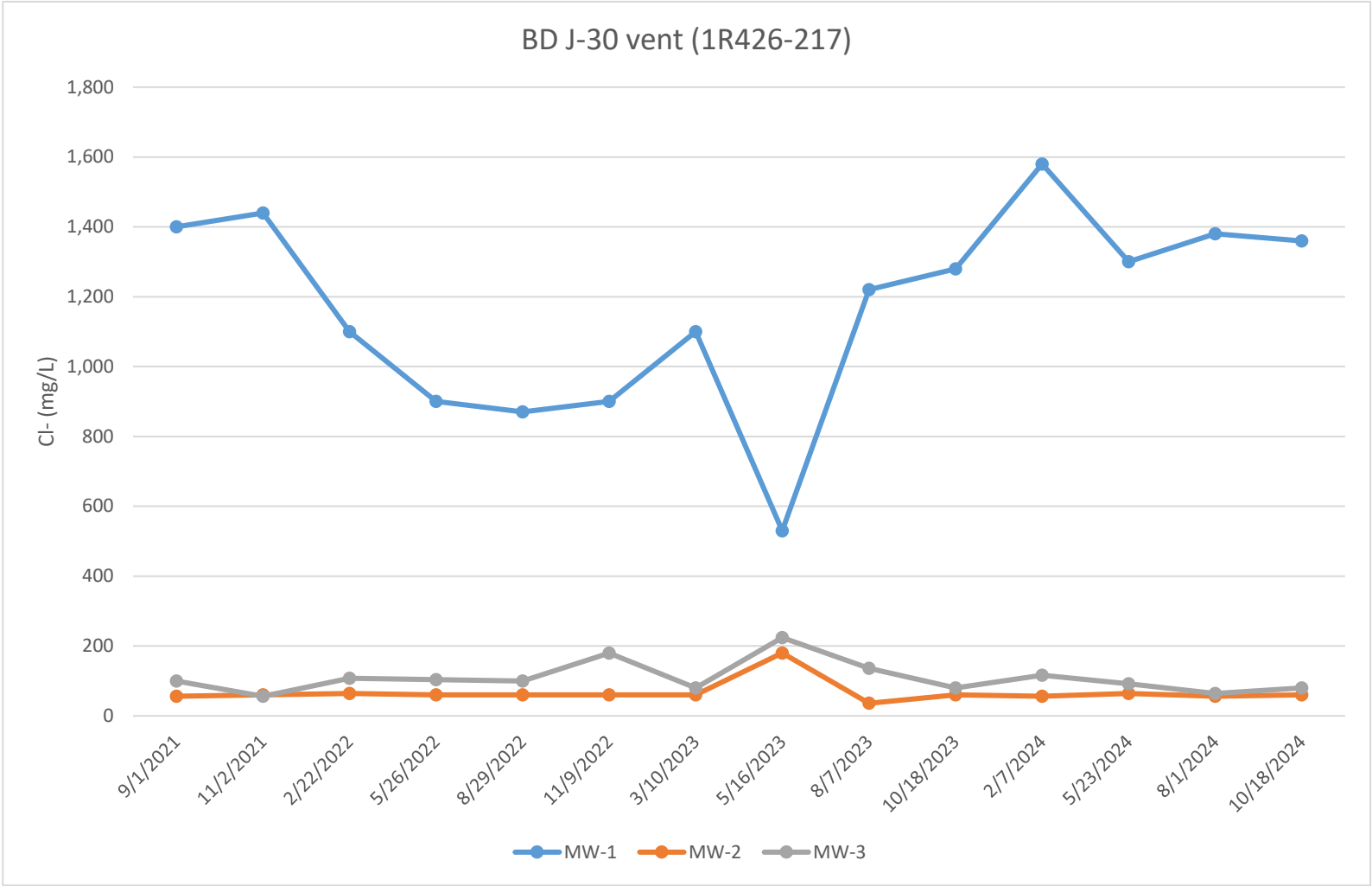
LEGALS: UL J SECTION 30
T-21-S R-37-E
LEA COUNTY, NM

GPS: 32.446879, -103.199905
NAD 83 STATE PLANE PROJ
NM EAST ZONE

0 10 20
 Feet

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





ROC - BD J-30 vent (1R426-217)

Unit Letter J, Section 30, T21S, R37E

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	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

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
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

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	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**

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
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



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

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 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:	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/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		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, SM4500Cl-B		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/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	
TDS*	568	5.00	02/21/2024	ND	839	83.9	1000	3.46		

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

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.

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

Cardinal Laboratories, Inc.

Page 4 of 4

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 J-30 Vent
Project Location:	Sampler Signature: Rozanne Johnson (575)631-9310
T21S R37E Sec30 J~ Lea County New Mexico	

(Circle or Specify Method No.)

Turn Around Time ~ 24 Hours

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

Cool Intact

Yes	<input checked="" type="checkbox"/>	Yes	<input checked="" type="checkbox"/>
No	<input type="checkbox"/>	No	<input type="checkbox"/>

(Initials)

[Handwritten signature]

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



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

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.

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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 "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For 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:	05/29/2024	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		Analyzed 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		Analyzed 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		Analyzed 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		Analyzed 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, SM4500Cl-B (Water)		mg/L		Analyzed 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		Analyzed 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		

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*=Accredited Analyte

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Mike Snyder For 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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*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder", is written over a horizontal line.

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

Cardinal Laboratories, Inc.

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 J-30 Vent		
Project Location: T21S R37E Sec30 J~ Lea County New Mexico		Sampler Signature:  Rozanne Johnson (575) 631-9310		

[illegible]

Relinquished by: <u>Rozanne Johnson</u>	Date: <u>5/28/24</u>	Time: <u>7:00</u>	Received by: <u>Jerry L. Jones</u>	Date: <u>5/28/24</u>	Time: <u>7:00</u>
Relinquished by: <u>Jerry L. Jones</u>	Date: <u>5/28/24</u>	Time: <u>9:55</u>	Received By: (Laboratory Staff) <u>Camara Aldaker</u>	Date: <u>5/29/24</u>	Time: <u>0955</u>
Delivered By: (Circle One)	Sample Condition Yes <input checked="" type="checkbox"/> Cool No <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Intact No <input type="checkbox"/>		CHECKED BY: <u>[Signature]</u> (Initials)		
Sampler - UPS - Bus - <u>Other</u>					

LAB Order ID # _____

(Circle or Specify Method No.)

[illegible]

Phone Results	Yes	No
Fax Results	Yes	No Additional Fax Number:
REMARKS:		
Email Results: kjones@riceswd.com rozanne@sdacres.com		



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

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 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:	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		Analyzed 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		Analyzed 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		Analyzed 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		Analyzed 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		Analyzed 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		Analyzed 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		

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*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "C. 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 J-30 Vent			
Project Location: T21S R37E Sec30 J~ Lea County New Mexico		Sampler Signature: <i>Rozanne Johnson</i> (575) 631-9310			

ANALYSIS REQUEST

(Circle or Specify Method No.)

(LAB USE ONLY)	FIELD CODE	(G)rab or (C)omp	# CONTAINERS	MATRIX				PRESERVATIVE METHOD				SAMPLING		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 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, SO4, CO3, HCO3)	Sulfates	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours	
				WATER	SOIL	AIR	SLUDGE	HCL (2.40ml VOA)	HNO3	NaHSO4	H2SO4	ICE (1-1Liter HDPE)	NONE																							DATE (2024)
123	Monitor Well #1	G	1	X							1	8/1	14:00																				X	X		
	Monitor Well #2	G	1	X							1	8/1	9:20																				X	X		
	Monitor Well #3	G	1	X							1	8/1	11:00																				X	X		

Relinquished by: <i>Rozanne Johnson</i>	Date: <i>8/7/2024</i>	Time: <i>7:40</i>	Received by: <i>[Signature]</i>	Date: <i>8/7/2024</i>	Time: <i>7:41</i>
Relinquished by: <i>[Signature]</i>	Date: <i>8/7/2024</i>	Time: <i>9:11</i>	Received By: (Laboratory Staff)	Date: <i>8-7-24</i>	Time: <i>9:11</i>
Delivered By: (Circle One) UPS - Bus	Sample Condition Cool <input checked="" type="checkbox"/> Yes <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		CHECKED BY: <i>PP</i> (Initials)		

Phone Results	Yes	No
Fax Results	Yes	No
Additional Fax Number:		
REMARKS:		
Email Results: kjones@riceswd.com rozanne@sdacres.com		



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

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 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:	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		Analyzed 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		Analyzed 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		Analyzed 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		Analyzed 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, SM4500Cl-B (Water)		mg/L		Analyzed 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		Analyzed 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

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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

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		

ANALYSIS REQUEST

(Circle or Specify Method No.)

Project #:		Project Name: BD J-30 Vent	
Project Location: T21S R37E Sec30 J~ Lea County New Mexico			
		Sampler Signature: <i>Rozanne Johnson</i> (575) 631-9310	

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 (1-1 Liter HDPE)	NONE	DATE (2024)	TIME
H246423															
1	Monitor Well #1	G	1	X								1		10/18	14:20
2	Monitor Well #2	G	1	X								1		10/18	9:45
3	Monitor Well #3	G	1	X								1		10/18	11:20

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 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	Total Dissolved Solids	Chlorides	Turn Around Time ~ 24 Hours
																			X	X	
																			X	X	
																			X	X	

Relinquished by: <i>Rozanne Johnson</i>	Date: 10/22/24	Time: 8:15	Received by: <i>[Signature]</i>	Date: 10/22/24	Time: 8:16
Relinquished by: <i>[Signature]</i>	Date: 10/22/24	Time: 10:05	Received By: (Laboratory Staff)	Date: 10-22-24	Time: 1005
Delivered By: (Circle One)	Sample Condition		CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other:	Cool	Intact			
Yes <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/>		(Initials)		
No <input type="checkbox"/>	No <input type="checkbox"/>				

Phone Results	Yes	No
Fax Results	Yes	No
Additional Fax Number:		
REMARKS:		
Email Results: kiones@riceswd.com rozanne@sdacres.com		

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 447050

CONDITIONS

Operator: RICE OPERATING COMPANY PO Box 5630 Hobbs, NM 88241	OGRID: 19174
	Action Number: 447050
	Action Type: [UF-GWA] Ground Water Abatement (GROUND WATER ABATEMENT)

CONDITIONS

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