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

April 1, 2020

Bradford Billings

New Mexico Oil Conservation Division 1220 So. St. Francis Drive Santa Fe, New Mexico 87505

> RE: 2019 Annual Groundwater Report Rice Operating Company – BD SWD System BD H-35 Emergency Overflow Pit (AP-71): UL/H, Section 35, T22S, R37E

Mr. Billings:

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

The site is located approximately 6.5 miles southeast of Eunice, New Mexico at UL/H, Section 35, T22S, R37E as shown on the Geographical Location Map. Groundwater sampling at the site indicated the depth to groundwater is approximately 44 ft below ground surface (bgs).

One monitoring well was installed on December 21^{st} , 2005, following the approval of the Investigation and Characterization Work Plan on November 9^{th} , 2004. The well has been sampled quarterly since installation, with chloride concentrations averaging 1,683 mg/L in 2019.

Due to the current climate, and in the interest of safety, ROC proposes to reduce groundwater monitoring from quarterly to semi-annually beginning this year. This request is only temporary and regularly scheduled groundwater monitoring will commence as soon as possible.

Attached is the Appendix, which contains:

- 1. A Geographical Location Map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for MW-1, and a graph showing recent laboratory results.
- 4. The laboratory analytical results for 2019.

Rice Operating Company appreciates the opportunity to work with you on this project. Please contact me at (575) 393-9174 or Edward Hansen at (505) 920-4965 if you have any questions or wish to further discuss this site. Thank you for your time and consideration.

Sincerely,

Katie Davis

Environmental Manager

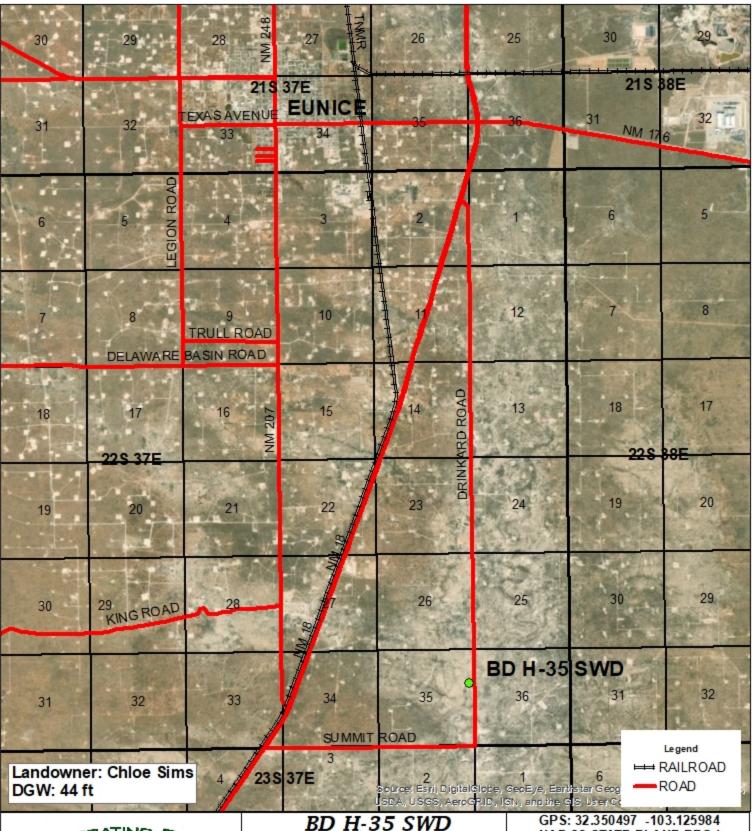
Katy Davis

RICE Operating Company (ROC)

Cc – Edward J. Hansen (ROC)

appendix

Geographic Location

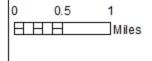




BD H-35 SWD EMERGENCY OVERFLOW PIT

AP-71

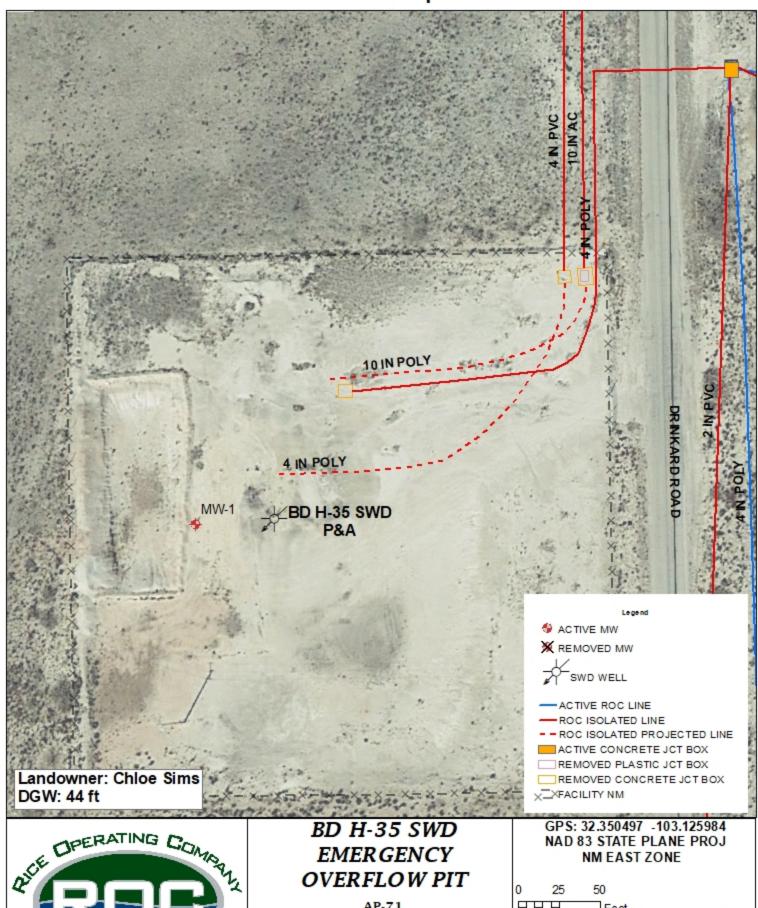
UL H SECTION 35 T-22-S R-37-E LEA COUNTY, NM GPS: 32.350497 -103.125984 NAD 83 STATE PLANE PROJ NM EAST ZONE



Drawing date: 31/28/20 Drafted by: T. Grieco



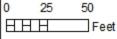
Site Map





AP-71

ULH SECTION 35 T-22-S R-37-E LEA COUNTY, NM



Drawing date: 2/3/20 Drafted by: T. Grieco

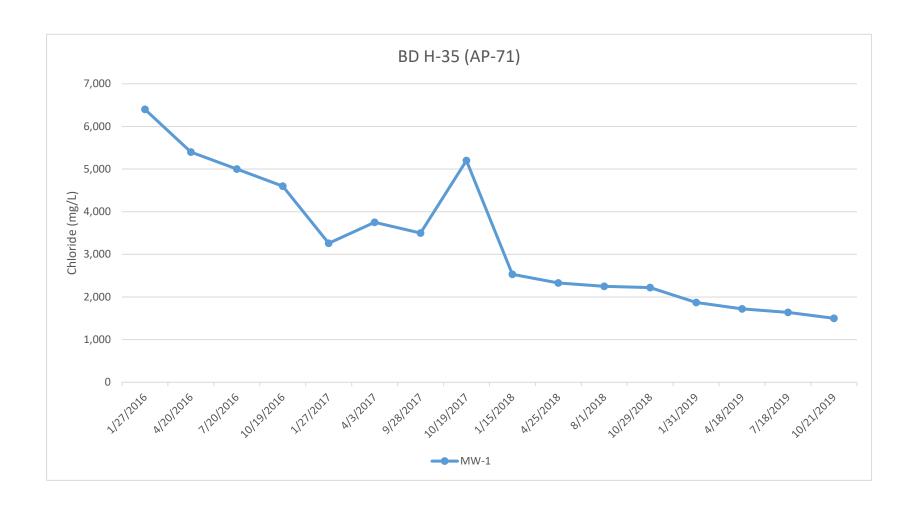


ROC - BD H-35 (AP-71) Unit Letter H, Section 35, T22S, R37E

2004	Depth to	Total	Well	Volume	Sample	CI	TDC	D	T .1	Ethyl	Total	C IC.	6
MW	Water	Depth	Volume	Purged	Date	Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
1	43.64	57.2	8.8	30	1/4/2006	1,880	4,290	<0.001	<0.001	<0.001	<0.001	383	Clear No odor
1	43.79	57.2	8.7	30	4/24/2006	2,360	5,380	<0.001	<0.001	<0.001	<0.001	405	XXX
1	43.92	57.2	8.6	35	7/19/2006	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
1	43.83	57.2	8.7	30	10/11/2006	2,880	7,460	<0.001	<0.001	<0.001	<0.001	561	clear
1	44.1	57.16	8.5	30	1/25/2007	3,240	5,300	<0.001	<0.001	<0.001	<0.001	556	XXX
1	44.2	57.16	8.4	30	4/4/2007	3,220	8,680	<0.001	<0.001	<0.001	<0.001	381	XXX
1	43.99	57.16	8.6	30	8/24/2007	4,749	12,345	0.003	0.003	0.003	0.008	565	Clear No odor
1	44.13	57.16	8.5	30	10/31/2007	3,400	7,028	<0.002	<0.002	<0.002	<0.006	499	Clear No odor
1	44.22	57.2	8.4	30	1/15/2008	4,800	9,194	<0.001	<0.001	<0.001	<0.003	665	Clear No odor
1	44.26	57.2	8.4	30	4/7/2008	4,600	9,350	<0.001	<0.001	<0.001	<0.003	888	Clear No odor
1	44.34	57.2	8.4	30	7/22/2008	4,400	9,580	<0.002	<0.002	<0.002	<0.006	714	Clear No odor
1	44.4	57.2	8.3	30	10/2/2008	3,950	9,350	<0.001	<0.001	<0.001	<0.003	675	Clear No odor
1	44.47	57.2	8.3	30	1/14/2009	3,650	7,600	<0.001	<0.001	<0.001	<0.003	657	Clear No odor
1	44.52	57.2	8.2	30	4/14/2009	3,400	6,550	<0.001	<0.001	<0.001	<0.003	629	Clear No odor
1	44.56	57.23	8.2	30	7/13/2009	2,380	4,800	<0.001	<0.001	<0.001	<0.003	522	Clear No odor
1	44.62	57.23	8.2	30	10/7/2009	3,050	6,900	<0.001	<0.001	<0.001	<0.003	519	Clear No odor
1	44.66	57.23	8.2	30	1/13/2010	3,050	6,300	<0.001	<0.001	<0.001	<0.003	490	Clear No odor
1	44.68	57.23	8.2	30	4/9/2010	2,850	5,480	<0.001	<0.001	<0.001	<0.003	618	Clear No odor
1	44.6	57.23	8.2	30	7/9/2010	2,650	4,970	<0.001	<0.001	<0.001	<0.003	526	Clear No odor
1	44.55	57.23	8.2	30	10/7/2010	2,750	6,430	<0.001	<0.001	<0.001	<0.003	512	Clear No odor
1	44.76	57.24	8.1	30	1/13/2011	2,650	5,160	<0.001	<0.001	<0.001	<0.003	598	Clear No odor
1	44.77	57.24	8.1	30	4/11/2011	3,050	5,480	<0.001	<0.001	<0.001	<0.003	567	Clear No odor
1	44.86	57.24	8	30	7/13/2011	4,050	6,590	<0.001	<0.001	<0.001	<0.003	597	Clear No odor
1	44.94	57.24	8	30	10/12/2011	3,400	5,890	<0.001	<0.001	<0.001	<0.003	607	Clear No odor
1	44.99	57.24	8	30	1/17/2012	2,470	5,070	<0.001	<0.001	<0.001	<0.003	558	Clear No odor
1	45.08	57.24	7.9	30	4/16/2012	2,570	5,100	<0.001	<0.001	<0.001	<0.003	437	Clear No odor
1	45.1	57.24	7.9	30	7/12/2012	2,430	4,940	<0.001	<0.001	<0.001	<0.003	504	Clear No odor
1	45.12	57.24	7.9	30	10/4/2012	2,700	5,380	<0.001	<0.001	<0.001	<0.003	615	Clear No odor
1	45.18	57.24	7.8	30	1/7/2013	2,200	4,290	<0.001	<0.001	<0.001	<0.003	501	Clear No odor

ROC - BD H-35 (AP-71) Unit Letter H, Section 35, T22S, R37E

	Depth to	Total	Well	Volume	Sample	C.I.	TDC	_		Ethyl	Total	6 16 .	
MW	Water	Depth	Volume	Purged	Date	Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate	Comments
1	45.25	57.24	7.8	30	4/18/2013	2,080	4,100	<0.001	<0.001	<0.001	<0.003	504	Clear No odor
1	45.24	57.24	7.8	30	7/15/2013	1,980	4,240	XXX	XXX	XXX	XXX	456	Clear No odor
1	45.32	57.24	7.7	30	10/16/2013	1,800	4,080	XXX	XXX	XXX	XXX	418	Clear No odor
1	45.37	57.24	7.7	30	1/15/2014	2,000	3,680	XXX	XXX	XXX	XXX	401	Clear No odor
1	45.44	57.24	7.7	30	4/4/2014	1,970	3,890	XXX	XXX	XXX	XXX	363	Clear No odor
1	45.45	57.24	7.7	30	7/15/2014	1,660	4,360	XXX	XXX	XXX	XXX	224	Clear No odor
1	42.22	57.24	9.8	100	12/16/2014	13,800	24,600	XXX	XXX	XXX	XXX	1610	Clear No odor
1	42.19	57.24	9.8	100	1/30/2015	9,600	16,800	XXX	XXX	XXX	XXX	1110	Clear No odor
1	42.47	57.24	9.6	100	4/20/2015	6,700	12,700	XXX	XXX	XXX	XXX	629	Clear No odor
1	42.18	57.24	9.79	100	7/20/2015	5,900	10,800	XXX	XXX	XXX	XXX	497	Clear No odor
1	43.03	57.24	9.24	100	10/21/2015	5,800	11,000	XXX	XXX	XXX	XXX	621	Clear No odor
1	43.08	57.24	9.2	100	1/27/2016	6,400	11,000	XXX	XXX	XXX	XXX	644	Clear No odor
1	43.26	57.24	9.1	100	4/20/2016	5,400	9,600	XXX	XXX	XXX	XXX	586	Clear No odor
1	43.39	57.24	9.1	100	7/20/2016	5,000	9,960	XXX	XXX	XXX	XXX	615	Clear No odor
1	43.25	57.24	9.1	100	10/19/2016	4,600	8,180	XXX	XXX	XXX	XXX	765	Clear No odor
1	43.43	57.24	8.9	100	1/27/2017	3,260	7,210	XXX	XXX	XXX	XXX	755	Clear No odor
1	43.48	57.24	8.9	100	4/3/2017	3,750	6,550	XXX	XXX	XXX	XXX	678	Clear No odor
1	43.47	57.24	9	100	9/28/2017	3,500	7,160	XXX	XXX	XXX	XXX	690	Clear No odor
1	43.46	57.24	9	100	10/19/2017	5,200	9,020	XXX	XXX	XXX	XXX	332	Clear No odor
1	43.45	57.24	9	100	1/15/2018	2,530	5,310	XXX	XXX	XXX	XXX	632	Clear No odor
1	43.92	57.24	8.7	100	4/25/2018	2,330	4,980	XXX	XXX	XXX	XXX	528	Clear No odor
1	44.03	57.24	8.6	100	8/1/2018	2,250	4,620	XXX	XXX	XXX	XXX	493	Clear No odor
1	44.07	57.24	8.6	100	10/29/2018	2,220	3,900	XXX	XXX	XXX	XXX	469	Clear No odor
1	44.08	57.24	9	100	1/31/2019	1,870	3,600	XXX	XXX	XXX	XXX	408	Clear No odor
1	44.2	57.24	9	100	4/18/2019	1,720	3,610	XXX	XXX	XXX	XXX	461	Clear No odor
1	44.27	57.24	9	100	7/18/2019	1,640	3,570	XXX	XXX	XXX	XXX	495	Clear No odor
1	44.33	57.24	9	100	10/21/2019	1,500	3,070	XXX	XXX	XXX	XXX	452	Clear No odor





February 08, 2019

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 02/05/19 12:56.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene



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

(* -7 --

 Received:
 02/05/2019
 Sampling Date:
 01/31/2019

 Reported:
 02/08/2019
 Sampling Type:
 Water

Project Name: BD H-35 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: T22S R37E SEC35 H-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H900421-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1870	4.00	02/06/2019	ND	104	104	100	0.00	
Sulfate 375.4	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	408	83.3	02/07/2019	ND	20.2	101	20.0	5.57	
TDS 160.1	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3600	5.00	02/07/2019	ND	191	93.6	204	18.4	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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			WATRIA METHOD SAMPLING											PLING			TPH 418.1/TX1005 / TX1005 Extended (C35)		Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	, a	"			624	GC/MS Semi. Vol. 8270C/625		8		Anions (Cl, SO4, CO3, HCO3)	Cations (Ca, Mg, Na, K)		gg		Turn Around Time ~ 24 Hours
LAB#		ďμ	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE SLUDGE HCL (2 40m1 VOA) HCL (2 40m1 VOA) HNO3 NAHSO4 H2SO4 ICE (1-1Lier HDPE) NONE DATE (2019) TIME											8	8	005		As	2	TCLP Semi Volatiles	.,		GC/MS Vol. 8260B/624	9	_	Pesticides 8081A/608	1	10	9, 8		Total Dissolved Solids		me	
SOME CAY AT TOP SAME	FIELD CODE	(G)rab or (C)omp	Ž	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE SLUDGE SLUDGE SLUDGE AIR SLUDGE MATLIX METHOD HNO3 NAHSO4 ICE (1-1Lifer HDPE) NONE DATE (2019) TIME TIME											MTBE 8021B/602	BTEX 8021B/602	Ιž		P S	es s	No.	TCLP Pesticides		82	; <u>:</u>	PCB's 8082/608	308	Moisture Content	S	Σ,	94)	<u>§</u>		Ę
/ LAB USE \		٥	🗦	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE SLUDGE AIR SLUDGE AIR SLUDGE AIR SLUDGE AIR SLUDGE TIME DATE (2019) MATER AIR AIR AIR AIR AIR AIR AIR A											802	802	18.1	2700	etal	olat	emi	esti		Vol.	Sen	808	es o	وَ ا	3 0		S) S	SSO	Se	uno
ONLY)rab	<u>5</u>	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE HCL (2 40ml VOA) HNO3 NaHSO4 ICE (1-1Lier HDPE) NONE DATE (2019) TIME WATER XILLYM ALLYAN A											띪	X	4	PAH 8270C		<u>.</u>	PS	4		MS.	MS	3,8	ticid	Moisture Cont	Suc	ions	Sulfates (SO4)	<u>_</u>	orid	٦Ā٢
H900421		9	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE HCL (2 40ml VOA) HCL (2 40ml VOA) HNO3 NAHSO4 H2SO4 ICE (1-1Lier HDPE) NONE DATE (2019) TIME											₹	BTI	IF.	PA			15	[]	RCI	GC/	GC	S	Pes	No.	Anic	Cat	Sulf	<u> </u>	Chlorides	15	
	Monitor Well #1	G	# CONTAINERS WATER SOIL AIR SLUDGE SLUDGE HNO3 NAHSO4 HRSO4 ICE (1-1Lier HDPE) NONE DATE (2019) SUME																		П							T	T	П	х	$\overline{}$	х	
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(Yes Yes (Initials)																																	
Sampler - U	PS - Bus - Other:		No _	- - 1 1 1 1 1 1 1 1 1 1																														
	Yes Yes (Initials)														-			_	-			_		_	-		_	_				_		



May 01, 2019

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 04/24/19 13:55.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



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

(* - 7 - -

Received: 04/24/2019 Sampling Date: 04/18/2019
Reported: 05/01/2019 Sampling Type: Water

Project Name: BD H-35 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T22S R37E SEC35 H-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H901460-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1720	4.00	04/30/2019	ND	108	108	100	3.77	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	461	83.3	04/29/2019	ND	21.7	109	20.0	1.16	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3610	5.00	04/26/2019	ND	519	98.5	527	0.484	

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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



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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July 29, 2019

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 07/23/19 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



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

Fax To: (575) 397-1471

Received: 07/23/2019 Sampling Date: 07/18/2019
Reported: 07/29/2019 Sampling Type: Water

Project Name: BD H-35 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T22S R37E SEC35 H-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H902533-01)

Chloride, SM4500Cl-B	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1640	4.00	07/24/2019	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	495	250	07/29/2019	ND	24.0	120	20.0	8.47	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3570	5.00	07/25/2019	ND	516	97.9	527	2.51	

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Celey D. Keine



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 whistoever 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 related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Page_ 1 of 1_

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October 29, 2019

KATIE JONES

Rice Operating Company

112 W. Taylor

Hobbs, NM 88240

RE: BD H-35 SWD

Enclosed are the results of analyses for samples received by the laboratory on 10/24/19 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene



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

Fax To: (575) 397-1471

Received: 10/24/2019 Sampling Date: 10/21/2019
Reported: 10/29/2019 Sampling Type: Water

Project Name: BD H-35 SWD Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: T22S R37E SEC35 H-LEA CTY., NM

Sample ID: MONITOR WELL #1 (H903650-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	1500	4.00	10/25/2019	ND	100	100	100	3.92	
Sulfate 375.4	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	452	125	10/25/2019	ND	23.9	120	20.0	10.7	
TDS 160.1	mg	/L	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	3070	5.00	10/28/2019	ND	517	98.1	527	5.18	

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Keine



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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H903650				MA	TRIX		1	PRES	ETH	ØD.	ÑΕ	SAM	PLING			TPH 418.1/TX1005 / TX1005 Extended (C35)	2	TCLP Metals Ag As Ba Cd Cr Pb Se Hg				624	GC/MS Semi. Vol. 8270C/625		38		Moisture Content	Cations (Ca, Mg, Na, K)		spi		Turn Around Time ~ 24 Hours
LAB#	FIETO CODE (C) omp (C)											302	05	1005	<	g As		TCLP Semi Volatiles	,	GC/MS Vol. 8260B/624	ol.		Pesticides 8081A/608		# S) Z		Total Dissolved Solids		me		
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