1R-428-67

2013 Annual Report

DATE March 10, 2014

From:	Laura Flores
To:	Lowe, Leonard, EMNRD; VonGonten, Glenn, EMNRD
Cc:	"Hack Conder"; "Katie Jones"
Subject:	ROC - Hobbs Jct. E-33-1 (1R428-67) 2013 Annual Groundwater Report
Date:	Monday, March 10, 2014 1:37:15 PM
Attachments:	ROC - Hobbs ict. E-33-1 (1R428-67) 2013 Annual Groundwater Report.pdf

Mr. Lowe,

Attached is the 2013 Annual Groundwater Report for Hobbs jct. E-33-1 (1R428-67). Annual Reports are submitted yearly to update the NMOCD about groundwater quality for a particular site. This report does not require NMOCD approval; therefore, a flow chart is not included.

If you have any questions or require any additional information, please contact Hack Conder at 575-631-6432.

Thank you,

Laura Flores Project Manager Rice Environmental Consulting & Safety (RECS)

Rice Environmental Consulting & Safety

P.O. Box 2948, Hobbs, NM 88241 Phone 575.393.2967

March 10th, 2014

Mr. Leonard Lowe

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

RE: 2013 Annual Groundwater Monitoring Report Rice Operating Company – Hobbs SWD System Hobbs Jct. E-33-1 (1R428-67): UL/E sec. 33 T18S R38E

Mr. Lowe:

RICE Operating Company (ROC) has retained Rice Environmental Consulting and Safety (RECS) to address potential environmental concerns at the above-referenced site in the abandoned Hobbs Salt Water Disposal (SWD) system. ROC is the service provider (agent) for the Hobbs 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.

With the abandonment of the Hobbs SWD system in 2002, ROC removed the Hobbs E-33-1 junction box and the upper four feet of the vadose zone. The resultant excavation was then backfilled with a mixture of silty loam and some caliche. On May 2nd, 2006, one soil bore was advanced through the former junction box site and was completed into a monitoring well (MW-1). An Update Report was submitted to the NMOCD on December 11th, 2012, requesting an up-gradient well (MW-2) be installed. NMOCD approved this on December 26th, 2012, and MW-2 was installed on February 14th, 2013. Both monitoring wells have been sampled quarterly since installation.

This 2013 Annual Groundwater Monitoring Report contains:

- 1. A site location map.
- 2. A map showing well locations.
- 3. A table presenting all laboratory results and depth to groundwater for each well at the site.
- 4. Graphs showing the concentrations of chloride and TDS in groundwater over time.
- 5. The laboratory analytical results for the most recent sampling event.

Quarterly groundwater sampling will continue in 2014.

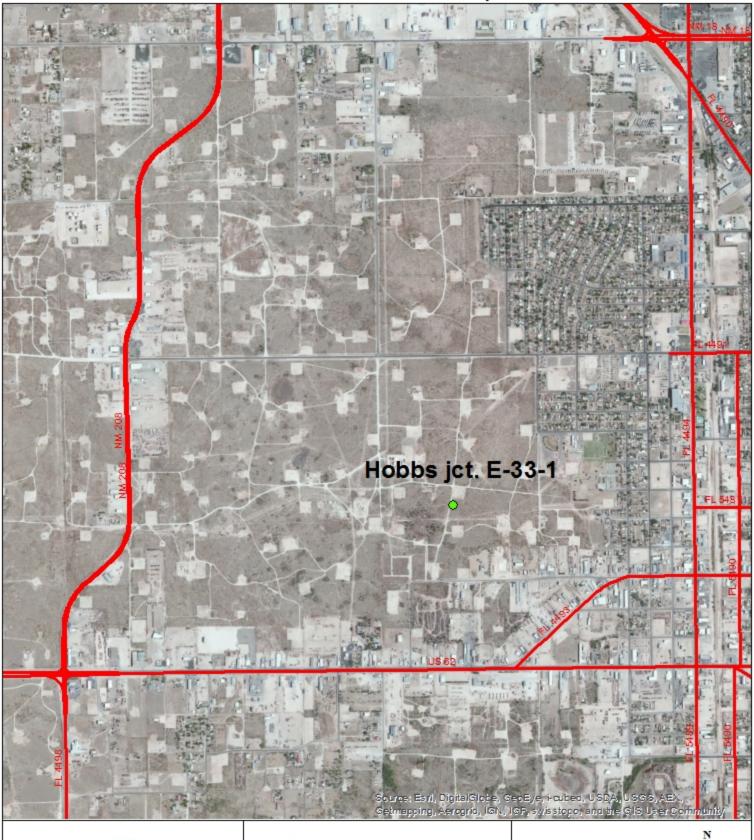
RECS appreciates the opportunity to work with you on this project. Please call Hack Conder at (575) 393-2967 or me if you have any questions or wish to discuss the site.

Sincerely,

Alores

Laura Flores Rice Environmental Consulting & Safety (RECS) Project Manager

Site Location Map



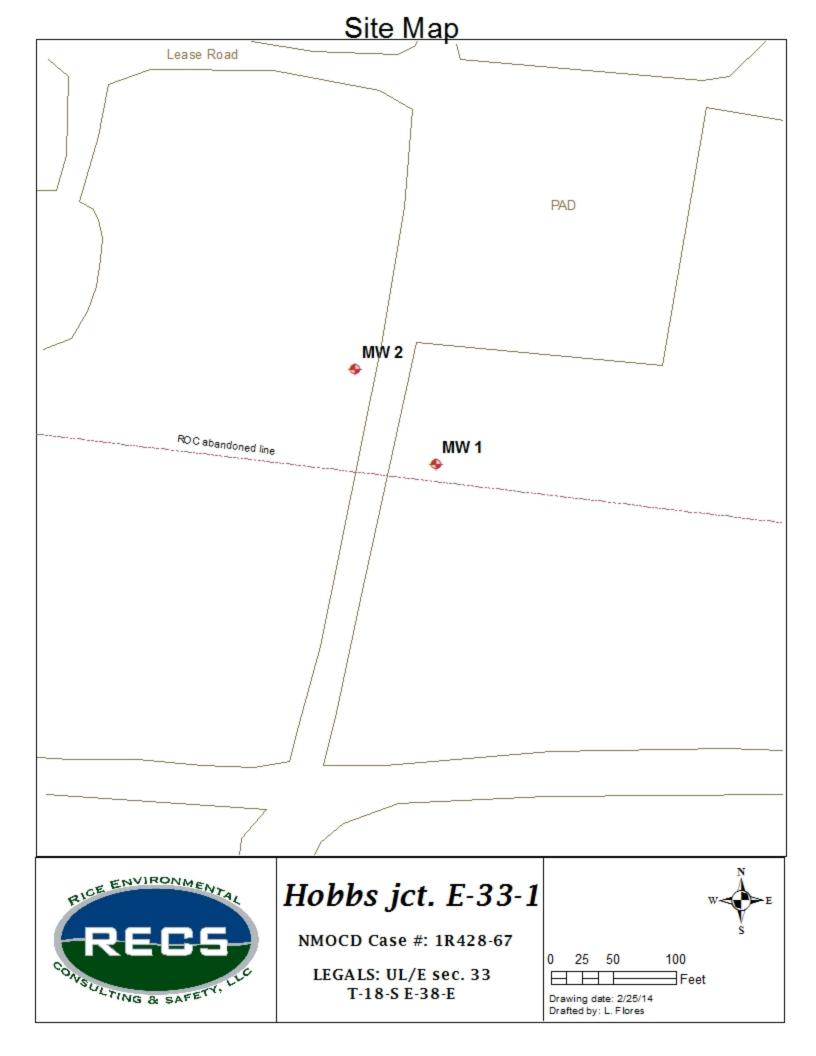


Hobbs jct. E-33-1

NMOCD Case #: 1R428-67

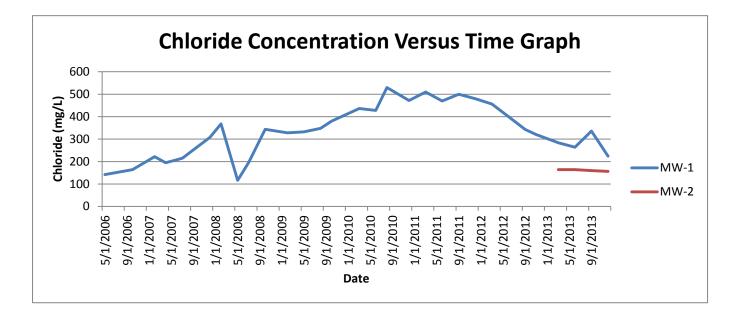
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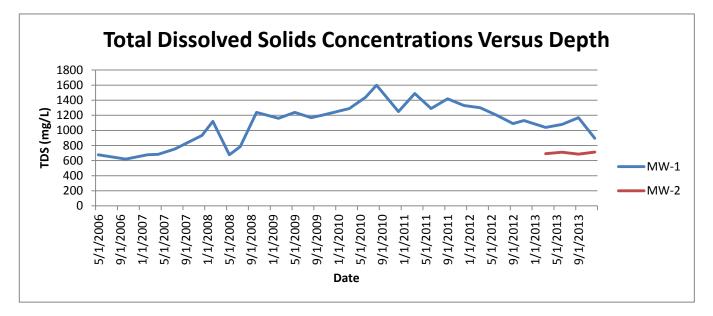
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								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
	64.44	79.35	5/17/2006	142	678	< 0.001	< 0.001	<0.001	<0.001	Sulfate 93.4 96.2 112 178 101 115 174 176 100 176 100 176 100 176 100 170 166 158 159 168 198 160 130 202 193 188 221 222 214 220 195 139 190 190 193
	64.48	79.35	10/31/2006	164	620	< 0.001	< 0.001	<0.001	<0.001	96.2
	64.67	79.12	2/22/2007	222	678	< 0.001	< 0.001	<0.001	<0.001	112
	65.21	79.1	5/1/2008	116	677	< 0.002	< 0.002	<0.002	<0.006	178
	64.77	79.12	4/25/2007	195	684	< 0.001	< 0.001	<0.001	<0.001	101
	64.89	79.12	7/30/2007	215	754	< 0.001	< 0.001	<0.001	<0.001	115
	65.03	79.12	12/19/2007	308	933	< 0.002	< 0.002	<0.002	<0.006	174
	65.08	79.1	2/8/2008	368	1120	< 0.002	< 0.002	<0.002	<0.004	176
	65.28	79.1	7/25/2008	196	785	< 0.002	< 0.002	<0.002	<0.006	100
	65.47	79.4	10/29/2008	344	1240	< 0.001	< 0.001	<0.001	<0.003	170
	65.68	79.36	2/2/2009	328	1160	XXX	XXX	XXX	XXX	166
	65.73	79.36	5/4/2009	332	1240	XXX	XXX	XXX	XXX	158
	65.85	79.36	8/10/2009	348	1170	XXX	XXX	XXX	XXX	159
	65.98	79.36	10/27/2009	380	1200	XXX	XXX	XXX	XXX	168
MW-1	66.21	79.38	3/12/2010	436	1290	XXX	XXX	XXX	XXX	198
10100-1	66.32	79.38	6/4/2010	428	1440	XXX	XXX	XXX	XXX	160
	66.42	79.38	8/30/2010	530	1600	XXX	XXX	XXX	XXX	130
	66.54	79.38	12/10/2010	472	1250	XXX	XXX	XXX	XXX	202
	66.68	79.38	3/23/2011	510	1490	XXX	XXX	XXX	XXX	193
	66.84	79.38	6/20/2011	470	1290	XXX	XXX	XXX	XXX	188
	66.94	79.38	9/20/2011	500	1420	XXX	XXX	XXX	XXX	221
	67.14	79.38	12/15/2011	480	1330	XXX	XXX	XXX	XXX	222
	67.27	79.38	3/13/2012	456	1300	XXX	XXX	XXX	XXX	214
	67.46	79.38	6/11/2012	400	1200	XXX	XXX	XXX	XXX	220
	67.69	79.38	9/6/2012	343	1090	XXX	XXX	XXX	XXX	195
	67.88	79.38	11/29/2012	320	1130	XXX	XXX	XXX	XXX	139
	67.97	79.38	3/1/2013	284	1040	XXX	XXX	XXX	XXX	190
	68.25	79.38	6/24/2013	264	1080	XXX	XXX	XXX	XXX	190
	68.43	79.38	9/16/2013	336	1170	XXX	XXX	XXX	XXX	193
	68.62	79.38	12/12/2013	224	896	XXX	XXX	XXX	XXX	164

								Ethyl	Total	
	Depth to			Cl	TDS	Benzene	Toluene	Benzene	Xylenes	Sulfate
MW	Water	Total Depth	Sample Date				(mg/L)			
	68.09	79.1	3/1/2013	164	691	XXX	XXX	XXX	XXX	111
MW-2	68.32	79.1	6/24/2013	164	710	XXX	XXX	XXX	XXX	109
10100-2	68.49	79.1	9/16/2013	160	686	XXX	XXX	XXX	XXX	87
	68.71	79.1	12/12/2013	156	714	XXX	XXX	XXX	XXX	107







December 19, 2013

Hack Conder Rice Operating Company 112 W. Taylor Hobbs, NM 88240

RE: HOBBS JUNCTION E-33-1

Enclosed are the results of analyses for samples received by the laboratory on 12/13/13 15:16.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	12/13/2013	Sampling Date:	12/12/2013
Reported:	12/19/2013	Sampling Type:	Water
Project Name:	HOBBS JUNCTION E-33-1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVNE	Sample Received By:	Celey D. Keene
Project Location:	T18S-R38E-SEC33 E-LEA CTY., NM		

Sample ID: MONITOR WELL #1 (H303032-01)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	224	4.00	12/17/2013	ND	104	104	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	164	25.0	12/17/2013	ND	21.2	106	20.0	10.8	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	896	5.00	12/18/2013	ND	243	101	240	2.49	

Sample ID: MONITOR WELL #2 (H303032-02)

Chloride, SM4500Cl-B	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	156	4.00	12/17/2013	ND	100	100	100	3.92	
Sulfate 375.4	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate*	107	25.0	12/17/2013	ND	21.2	106	20.0	10.8	
TDS 160.1	mg,	/L	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS*	714	5.00	12/18/2013	ND	243	101	240	2.49	

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*=Accredited Analyte

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

- ND
 Analyte NOT DETECTED at or above the reporting limit

 RPD
 Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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