

AP - 64

ANNUAL MONITORING REPORT

YEAR(S):
2009

R. T. HICKS CONSULTANTS, LTD.

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April 8, 2010

Edward J. Hansen
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: 2009 Annual Ground Water Monitoring Report
Hobbs F-29 SWD, Sec 29, T18S, R38E, Unit "F"
NMOCD Case #: AP-64

Mr. Hansen,

R.T. Hicks Consultants, Ltd. is pleased to submit this 2009 Annual Ground Water Monitoring Report for the F-29 SWD site located in the Hobbs Salt Water Disposal System (SWD). This report contains:

1. A table presenting all laboratory results and depth to ground water for each well at the site.
2. Graphs showing the concentration of chloride and TDS in ground water over time.

Quarterly ground water sampling will continue in 2010.

ROC is the service provider (agent) for the Hobbs Salt Water Disposal System and has no ownership of any portion of pipeline, well or facility. A consortium of oil producers who own the Hobbs Salt Water Disposal System (System Parties) provide all operating capital on a percentage ownership/usage basis. Major projects require System Parties' authorization for expenditures (AFE); approval and work begins as funds are received.

Thank you for your consideration. If you have any questions, please contact us at 505-266-5004, or Hack Conder at Rice Operating Company, 575-393-9174.

Sincerely,
R.T. Hicks Consultants



Katie Lee
Project Scientist

Copy: Hack Conder, Rice Operating Company

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Hobbs F-29 SWD

ROC Hobbs F-29 SWD NMOCD Case #: AP-64

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
2	XXX	3/21/2000	2564	6660	XXX	XXX	XXX	XXX	XXX
2	49	7/10/2000	1829	3470	<0.002	<0.002	<0.002	<0.006	XXX
2	49.26	9/27/2000	1748	3032	<0.002	<0.002	<0.002	<0.006	XXX
2	49.61	12/12/2000	1027	2586	<0.002	<0.002	<0.002	<0.006	XXX
2	XXX	1/4/2001	308	1114	XXX	XXX	XXX	XXX	XXX
2	XXX	3/16/2001	396	1373	XXX	XXX	XXX	XXX	XXX
2	XXX	3/23/2001	368	1312	XXX	XXX	XXX	XXX	XXX
2	XXX	5/7/2001	365	1272	XXX	XXX	XXX	XXX	XXX
2	XXX	6/8/2001	513	1796	XXX	XXX	XXX	XXX	XXX
2	XXX	8/14/2001	340	1385	XXX	XXX	XXX	XXX	XXX
2	51.13	12/29/2001	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2	51.16	1/4/2002	308	1114	XXX	XXX	XXX	XXX	XXX
2	XXX	6/6/2002	221	XXX	<0.001	<0.001	<0.001	<0.001	135
2	52.07	8/14/2002	186	806	<0.001	<0.001	<0.001	<0.001	144
2	52.58	12/11/2002	172	738	<0.002	<0.002	<0.002	<0.006	106
2	52.94	3/21/2003	230	XXX	<0.001	<0.001	<0.001	<0.001	140
2	53.15	5/28/2003	257	804	<0.001	<0.001	<0.001	<0.001	138
2	53.71	9/22/2003	151	700	<0.001	<0.001	<0.001	<0.001	173
2	54.1	12/18/2003	208	815	<0.002	0.003	<0.002	0.014	71
2	54.33	3/15/2004	186	607	<0.001	<0.001	<0.001	<0.001	103
2	XXX	5/27/2004	213	830	<0.001	<0.001	<0.001	<0.001	138
2	54.6	9/8/2004	248	946	0.00464	0.000412	0.000979	0.001199	129
2	54.2	11/23/2004	139	888	0.00448	<0.001	<0.001	0.000714	125
2	53.39	3/22/2005	214	914	<0.001	<0.001	<0.001	<0.001	196
2	53.35	5/18/2005	223	930	<0.001	<0.001	<0.001	<0.001	131
2	53.55	8/8/2005	210	799	<0.001	<0.001	<0.001	<0.001	130
2	53.81	10/31/2005	185	762	<0.001	<0.001	<0.001	<0.001	100
2	53.89	1/30/2006	198	904	<0.001	<0.001	<0.001	<0.001	89.4
2	53.91	5/1/2006	212	904	<0.001	<0.001	<0.001	<0.001	91.3
2	54.13	10/16/2006	258	1040	<0.001	j[0.000790]	j[0.000356]	j[0.000940]	116

XXX: Not Recorded or Not Analyzed

j: Result below detection limit

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
2	54.08	2/5/2007	299	908	<0.001	<0.001	<0.001	<0.001	112
2	54.17	5/16/2007	236	898	<0.001	<0.001	<0.001	<0.001	102
2	54.37	7/31/2007	272	1040	<0.001	<0.001	<0.001	0.0033	41.9
2	54.43	10/18/2007	292	1047	<0.001	<0.001	<0.001	<0.003	113
2	54.19	2/18/2008	300	1040	<0.002	<0.002	<0.002	<0.006	132
2	54.53	4/25/2008	320	1070	<0.002	<0.002	<0.002	<0.006	185
2	54.69	7/24/2008	172	773	<0.001	<0.001	<0.001	<0.003	104
2	54.89	11/12/2008	296	1130	<0.001	<0.001	<0.001	<0.003	131
2	54.97	2/3/2009	248	1100	XXX	XXX	XXX	XXX	109
2	55.05	5/4/2009	344	1330	XXX	XXX	XXX	XXX	120
2	55.21	8/28/2009	280	1220	XXX	XXX	XXX	XXX	102
2	55.33	10/27/2009	240	1000	XXX	XXX	XXX	XXX	105

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
3	XXX	1/4/2001	136	1013	XXX	XXX	XXX	XXX	XXX
3	51.2	12/29/2001	XXX	XXX	XXX	XXX	XXX	XXX	XXX
3	51.24	1/4/2002	136	1013	XXX	XXX	XXX	XXX	XXX
3	XXX	5/24/2002	137	917	<0.001	<0.001	<0.001	<0.001	158
3	52.12	8/14/2002	151	998	<0.001	<0.001	<0.001	<0.001	284
3	52.64	12/11/2002	136	1069	0.005	<0.002	<0.002	<0.006	201
3	52.98	3/21/2003	133	XXX	<0.001	<0.001	<0.001	<0.001	266
3	53.7	5/28/2003	301	1120	<0.001	<0.001	<0.001	<0.001	240
3	53.74	9/22/2003	120	881	<0.001	<0.001	<0.001	<0.001	238
3	54.35	3/15/2004	115	1140	<0.001	<0.001	<0.001	<0.001	248
3	XXX	5/27/2004	111	810	<0.001	<0.001	<0.001	<0.001	171
3	54.6	9/8/2004	230	937	<0.001	<0.001	<0.001	<0.001	186
3	54.4	11/23/2004	115	925	<0.001	<0.001	<0.001	<0.001	183
3	54.59	12/18/2004	124	852	<0.002	<0.002	<0.002	<0.006	73
3	53.4	3/22/2005	162	796	<0.001	<0.001	<0.001	<0.001	126
3	53.38	5/18/2005	272	1050	<0.001	<0.001	<0.001	<0.001	92
3	53.9	8/8/2005	203	945	<0.001	<0.001	<0.001	<0.001	122

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j: Result below detection limit

Hobbs F-29 SWD

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
3	53.57	10/31/2005	113	732	<0.001	<0.001	<0.001	<0.001	116
3	53.92	1/30/2006	97.3	650	<0.001	<0.001	<0.001	j[0.000562]	120
3	53.98	5/1/2006	85.3	704	<0.001	<0.001	<0.001	<0.001	111
3	54.18	10/16/2006	88.9	616	<0.001	j[0.000950]	j[0.000404]	0.00105	135
3	54.1	2/5/2007	98.3	572	<0.001	<0.001	<0.001	<0.001	128
3	54.2	5/16/2007	90.6	542	<0.001	<0.001	<0.001	<0.001	111
3	54.23	7/31/2007	105	590	<0.001	<0.001	<0.001	<0.002	76.5
3	54.48	10/18/2007	100	611	<0.001	<0.001	<0.001	<0.003	120
3	54.23	2/18/2008	104	607	<0.002	<0.002	<0.002	<0.006	144
3	54.55	4/25/2008	244	918	<0.002	<0.002	<0.002	<0.006	172
3	54.86	7/24/2008	80	584	<0.001	<0.001	<0.001	<0.003	104
3	54.93	11/12/2008	104	708	<0.001	<0.001	<0.001	<0.003	143
3	54.99	2/3/2009	104	744	XXX	XXX	XXX	XXX	127
3	55.08	5/4/2009	108	705	XXX	XXX	XXX	XXX	135
3	55.24	8/28/2009	108	703	XXX	XXX	XXX	XXX	120
3	55.3	10/27/2009	108	623	XXX	XXX	XXX	XXX	118

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
4	XXX	1/4/2001	464	1781	XXX	XXX	XXX	XXX	XXX
4	51.51	12/29/2001	XXX	XXX	XXX	XXX	XXX	XXX	XXX
4	51.56	1/4/2002	464	1781	XXX	XXX	XXX	XXX	XXX
4	XXX	5/24/2002	461	1520	<0.001	<0.001	<0.001	<0.001	286
4	52.5	8/14/2002	416	1660	<0.001	<0.001	<0.001	<0.001	303
4	53	12/11/2002	336	1302	0.003	<0.002	<0.002	<0.006	170
4	53.41	3/21/2003	346	XXX	<0.001	<0.001	<0.001	<0.001	289
4	53.25	5/28/2003	124	742	<0.001	<0.001	<0.001	<0.001	269
4	54.21	9/22/2003	425	1640	<0.001	<0.001	<0.001	<0.001	271
4	54.12	12/18/2003	660	1902	<0.002	<0.002	<0.002	<0.006	123
4	54.84	3/15/2004	452	1510	<0.001	<0.001	<0.001	<0.001	290
4	XXX	5/27/2004	461	1600	<0.001	<0.001	<0.001	<0.001	174
4	54.8	9/8/2004	372	1300	<0.001	<0.001	<0.001	<0.001	260

XXX: Not Recorded or Not Analyzed

j: Result below detection limit

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
4	54.4	11/23/2004	401	1550	<0.001	<0.001	<0.001	<0.001	217
4	53.76	3/22/2005	392	1220	<0.001	<0.001	<0.001	<0.001	196
4	53.78	5/18/2005	336	1230	<0.001	<0.001	<0.001	<0.001	169
4	53.98	8/8/2005	370	1230	<0.001	<0.001	<0.001	<0.001	171
4	53.82	10/31/2005	411	1560	<0.001	J[0.000774]	J[0.000385]	J[0.000842]	156
4	54.31	1/30/2006	523	1780	<0.001	<0.001	J[0.000332]	J[0.001064]	182
4	54.36	5/1/2006	501	1800	<0.001	<0.001	<0.001	<0.001	144
4	54.53	10/16/2006	683	2570	<0.001	<0.001	<0.001	<0.001	284
4	54.52	2/5/2007	653	1750	<0.001	<0.001	<0.001	<0.001	289
4	54.68	6/1/2007	668	2060	<0.001	<0.001	<0.001	<0.001	254
4	54.83	7/31/2007	548	2380	<0.001	<0.001	<0.001	<0.002	248
4	54.9	10/18/2007	440	1394	<0.001	<0.001	<0.001	<0.003	211
4	54.71	2/18/2008	508	1680	<0.002	<0.002	<0.002	<0.002	186
4R	57.57	4/25/2008	670	1960	<0.002	<0.002	<0.002	<0.006	304
4R	57.88	7/24/2008	590	1950	<0.001	<0.001	<0.001	<0.003	350
4R	58.11	11/12/2008	476	1570	<0.001	<0.001	<0.001	<0.003	289
4R	58.25	2/3/2009	610	2110	XXX	XXX	XXX	XXX	283
4R	58.31	5/4/2009	640	2060	XXX	XXX	XXX	XXX	280
4R	58.46	8/28/2009	780	2500	XXX	XXX	XXX	XXX	276
4R	58.56	10/27/2009	800	2530	XXX	XXX	XXX	XXX	318

MW #	Depth to Water (ft)	Sample Date	CI	TDS	Benzene	Toluene	Ethyl Benzene (mg/L)	Total Xylenes	Sulfate
5	57.02	10/18/2007	268	983	<0.001	<0.001	<0.001	<0.003	138
5	56.54	2/18/2008	316	1110	<0.002	<0.002	<0.002	<0.006	168
5	56.9	4/25/2008	484	1530	<0.002	<0.002	<0.002	<0.006	262
5	57.28	7/24/2008	356	1250	<0.001	<0.001	<0.001	<0.003	172
5	57.46	11/12/2008	324	1190	<0.001	<0.001	<0.001	<0.003	186
5	57.53	2/3/2009	312	1080	XXX	XXX	XXX	XXX	164
5	57.61	5/4/2009	328	1180	XXX	XXX	XXX	XXX	172
5	57.79	8/28/2009	308	1080	XXX	XXX	XXX	XXX	138
5	57.91	10/27/2009	320	1040	XXX	XXX	XXX	XXX	160

XXX: Not Recorded or Not Analyzed

j: Result below detection limit

