

1R - 427-177

Annual GW Mon. REPORTS

DATE:
2009



TETRA TECH

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April 6, 2010

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

2010 APR -9 P 1:03
RECEIVED OGD

Re: 2009 Annual Groundwater Summary Report & Project Status Report, Rice Operating Company, Eunice Monument Eumont (EME) Saltwater Disposal System (SWD) jct. A-2-1, Unit A, Section 2, T-20-S, R-36-E, Lea County, New Mexico, NMOCD CASE #1R0427-177

Mr. Hansen:

Tetra Tech Inc. (Tetra Tech) submits the following 2009 Annual Groundwater Summary Report for the Rice Operating Company (ROC), A-2-1 site located in the EME Salt Water Disposal System. This report consists of the following sections:

1. Tables summarizing all laboratory results and depths to groundwater at the site, including the current year (2009).
2. Graphs depicting the concentration of chlorides, total dissolved solids (TDS), and sulfates over time.

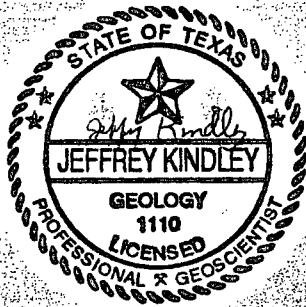
In 2009, BTEX constituents along with benzene were detected at or above the New Mexico Water Quality Control Commission (WQCC) standards in monitor well MW-1. The site has been sampled on a quarterly basis since November 2006. Quarterly sampling will be continued for 2010.

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

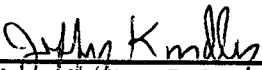


TETRA TECH

Thank you for your consideration of this annual summary information. If you have any questions, please contact me at (432) 682-4559, or Hack Conder of ROC at (575) 393-9174.



Respectfully Submitted,
Tetra Tech, Inc.



Jeffrey Kindley, P.G.
Senior Environmental Geologist

cc:Hack Conder – ROC
Enclosures: Tables and Graphs

Table 1

Rice Operating Company

EME Jct. A-2-1

Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
1	38.13	53.76	2.50	10	11/06/06	8,460	22,800	0.00331	0.00158	0.00337	0.003418	6,780	hydrocar. odr
1	38.30	53.76	2.50	8	02/13/07	10,100	17,900	0.0692	0.00526	0.0313	0.0404	8,190	hydrocar. odr
1	38.50	53.76	2.40	8	06/09/07	8,500	23,900	0.0220	0.00147	0.00799	0.00768	6,760	hydrocar. odr
1	38.71	53.76	2.40	8	08/21/07	8,197	23,775	0.0340	0.004	0.012	0.022	6,611	hydrocar. odr
1	38.47	53.76	2.40	8	12/04/07	8,800	23,481	0.0880	<0.001	0.021	0.01	5,870	hydrocar. odr
1	39.32	53.78	2.30	8	02/13/08	8,500	22,900	0.0340	<0.002	0.017	<0.006	4,710	hydrocar. odr
1	39.50	53.78	2.30	8	05/23/08	8,000	22,400	0.0040	<0.002	<0.002	<0.006	6,340	hydrocar. odr
1	39.85	53.78	2.20	8	08/22/08	7,000	20,200	0.0590	<0.001	0.011	0.008	6,260	hydrocar. odr
1	40.05	53.78	2.20	8	11/21/08	6,600	21,800	0.0110	0.001	0.002	0.004	6,230	hydrocar. odr
1	40.22	53.81	2.20	8	02/19/09	7,000	20,800	0.0020	<0.001	0.001	<0.003	5,900	Clear, light sheen, strong hydrocar. odor
1	40.44	53.81	2.10	8	06/03/09	6,700	20,500	0.0150	<0.001	0.002	0.003	5,530	Clear, light sheen, strong hydrocar. odor
1	40.59	53.81	2.10	8	09/02/09	6,200	18,700	0.0770	<0.001	0.015	0.011	5,130	Clear, light sheen, strong hydrocar. odor
1	40.79	53.81	2.10	8	11/13/09	6,000	17,900	0.0140	<0.001	0.003	0.016	4,380	Clear, light sheen, strong hydrocar. odor

Graph 1
 Rice Operating Company
 MW-1
 EME Jct A-2-1
 Lea County, New Mexico

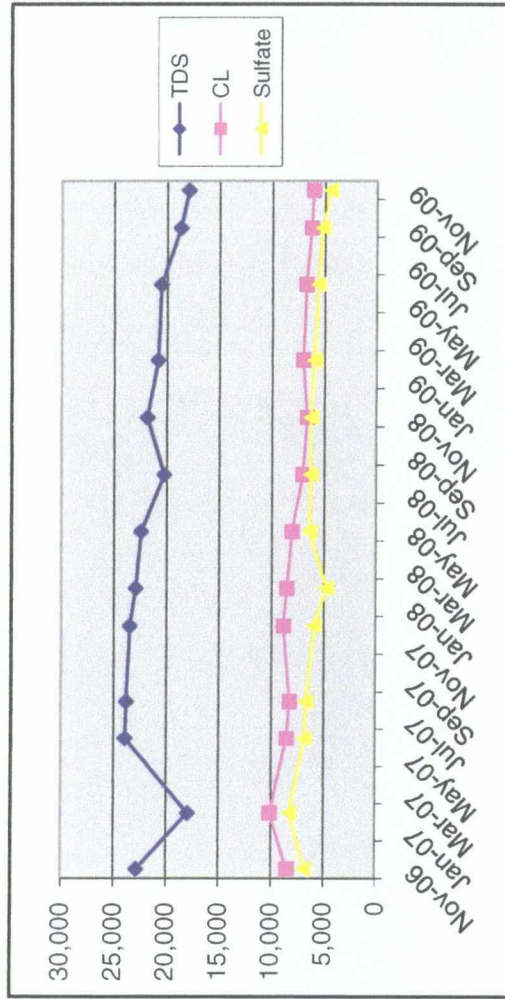


Table 2
Rice Operating Company
EME Jct. A-2-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
2	36.45	48.65	2.00	8	11/06/06	8,680	23,600	<0.001	<0.001	<0.001	<0.001	6,960	Silt/sand to clear, no odor
2	36.62	48.65	1.90	8	02/13/07	10,100	20,300	<0.001	<0.001	<0.001	<0.001	7,990	Silt/sand to clear, no odor
2	36.83	48.65	1.90	8	06/08/07	9,300	25,000	<0.001	<0.001	<0.001	<0.001	7,280	Silt/sand to clear, no odor
2	37.04	48.65	1.90	8	08/21/07	8,797	26,155	<0.004	<0.004	<0.004	<0.004	7,005	Silt/sand to clear, no odor
2	36.79	48.65	1.90	8	12/04/07	8,800	25,329	<0.001	<0.001	<0.001	<0.003	6,570	Silt/sand to clear, no odor
2	37.59	48.65	1.80	8	02/13/08	8,500	24,700	<0.002	<0.002	<0.002	<0.006	6,940	Silt/sand to clear, no odor
2	37.81	48.65	1.70	8	05/23/08	8,400	24,200	<0.002	<0.002	<0.002	<0.006	6,990	Silt/sand to clear, no odor
2	38.15	48.65	1.70	8	08/22/08	8,000	23,900	<0.001	<0.001	<0.001	<0.003	7,250	Silt/sand to clear, no odor
2	38.41	48.65	1.60	6	11/21/08	7,300	23,600	<0.001	<0.001	<0.001	<0.003	6,970	Silt/sand to clear, no odor
2	38.55	48.69	1.60	6	02/19/09	7,800	23,300	<0.001	<0.001	<0.001	<0.003	6,760	Silt/sand to clear, no odor
2	38.79	48.69	1.60	6	06/03/09	7,500	22,600	<0.001	<0.001	<0.001	<0.003	6,360	Silt/sand to clear, no odor
2	39.12	48.69	1.50	6	09/02/09	5,800	18,300	<0.001	<0.001	<0.0001	0.005	4,980	Silt/sand to clear, no odor
2	39.13	48.69	1.50	6	11/13/09	7,500	21,200	<0.001	<0.001	<0.001	<0.003	4,490	Silt/sand to clear, no odor

Graph 2
Rice Operating Company
MW-2
EME Jct. A-2-1
Lea County, New Mexico

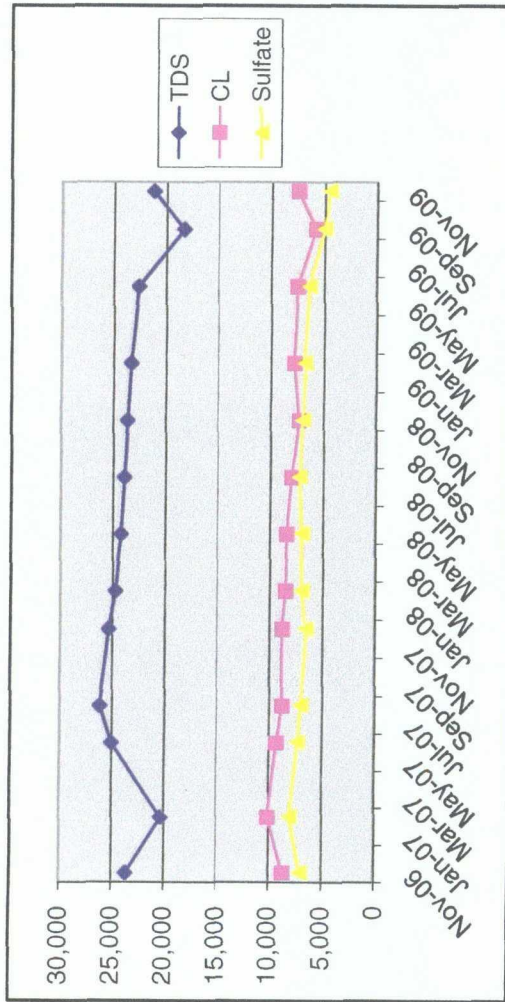


Table 3
Rice Operating Company
EME Jct. A-2-1
Lea County, New Mexico

MW	Depth to Water	Total Depth	Well Volume	Volume Purged	Sample Date	Cl	TDS	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Sulfate	Comments
3	37.12	47.38	1.60	6	11/06/06	7,970	20,400	<0.001	<0.001	<0.001	<0.001	5,950	Clear no odor
3	37.29	47.38	1.60	6	02/13/07	9,820	23,600	<0.001	<0.001	<0.001	<0.001	6,050	Clear no odor
3	37.50	47.38	1.60	6	06/08/07	8,300	21,400	<0.001	<0.001	<0.001	<0.001	5,350	Clear no odor
3	37.64	47.38	1.60	6	08/21/07	7,798	21,200	<0.004	<0.004	<0.004	<0.012	7,381	Clear no odor
3	37.39	47.38	1.60	6	12/04/07	8,600	24,814	<0.001	<0.001	<0.001	<0.003	6,480	Clear no odor
3	38.22	47.38	1.50	6	02/13/08	6,800	20,200	<0.002	<0.002	<0.002	<0.006	5,560	Clear no odor
3	38.44	47.38	1.40	6	05/20/08	6,600	19,500	<0.002	<0.002	<0.002	<0.006	5,720	Clear no odor
3	38.80	47.38	1.40	6	08/22/08	6,200	19,100	<0.001	<0.001	<0.001	<0.003	5,860	Clear no odor
3	39.06	47.38	1.30	6	11/21/08	6,000	18,100	<0.001	<0.001	<0.001	<0.003	5,860	Clear no odor
3	39.23	47.41	1.30	6	02/19/09	6,000	18,200	<0.001	<0.001	<0.001	<0.003	5,270	Clear no odor
3	39.33	47.41	1.30	6	06/03/09	5,900	17,900	<0.001	<0.001	<0.001	<0.003	5,150	Clear no odor
3	39.64	47.41	1.20	6	09/02/09	4,700	14,300	<0.001	<0.001	<0.001	<0.003	3,720	Clear no odor
3	39.79	47.41	1.20	6	11/13/09	5,900	16,900	<0.001	<0.001	<0.001	<0.003	3,800	Clear no odor

Graph 3
Rice Operating Company
MW-3
EME Jct. A-2-1
Lea County, New Mexico

