

1R - 427-09

Annual GW Mon. REPORTS

DATE:

2009



CERTIFIED MAIL
RETURN RECEIPT NO. 7099 3400 0017 1737 1889

April 2, 2010

Mr. Edward Hansen
New Mexico Energy, Minerals, & Natural Resources
Oil Conservation Division, Environmental Bureau
1220 S. St. Francis Drive
Santa Fe, New Mexico 87504

**RE: 2009 ANNUAL GROUNDWATER MONITORING REPORT
EME L-6 Boot Site (NMOCD CASE NO. 1R0427-09)
T20S, R37E, Section 6, Unit Letter L, Lea County, New Mexico**

RECEIVED 06/11
2010 APR 12 P 1:00

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2009 Annual Groundwater Monitoring Report for the L-6 Boot Site located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

In accordance with the NMOCD-approved *Corrective Action Plan*, ROC has been operating a groundwater recovery system to remove 2,327 kg of chloride mass attributable to the former junction box at the site since September 2009. Native vegetation has now reached full productive capacity. We expect to fully meet termination requirements for both the vadose zone and groundwater abatement objectives by the end of 2010.

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

Thank you for your consideration concerning this annual summary of groundwater monitoring information. If you have any questions please contact Hack Conder at (575) 393-9174.

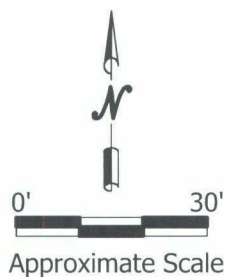
Sincerely,

A handwritten signature in black ink, appearing to read "Gilbert J. Van Deventer".

Gilbert J. Van Deventer, PG, REM

cc: Hack Conder (Rice Operating Co., Hobbs NM)

enclosures: map, table, graphs



MAP LEGEND

MW-1
3533.26
Monitoring Well
Water Table Elevation (Ft AMSL)

3533.00
Groundwater Elevation Contour
(Contour Interval = 0.10 feet)

CI 12200 Chloride and TDS
TDS 26800 Concentrations in mg/L

B <0.001 BTEX Concentrations in all
T <0.001 monitoring wells are less than
E <0.001 the method detection limit for
X <0.003 each constituent as noted (mg/L).

MW-2
3532.57
CI 12400
TDS 25600

Gas Line

Groundwater
Gradient
0.002 ft/ft

RW-1

Former
Jct Box

New
Jct Box

10" ROC A/C Pipeline (Out of Service)

10" ROC Poly Pipeline (In Service)

MW-1
3532.31
CI 11000
TDS 24900

MW-3
3532.21
CI 11200
TDS 24700

Tank
Battery



EME Jct. L-6 Boot Site
T20S - R37E - Section 6 - Unit L
RICE Operating Company

GROUNDWATER GRADIENT AND
CHLORIDE, TDS, & BTEX
CONCENTRATION MAP
November 9, 2009

Table 1
Summary of Groundwater Sampling Results
EME Jct. L-6 Boot Site

Monitoring Well	Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)
MW-1	02/11/09	37.79	3532.88	11,800	26,300	< 0.001	< 0.001	< 0.001	< 0.003
	05/14/09	37.78	3532.89	11,600	25,500	< 0.001	< 0.001	< 0.001	< 0.003
	08/27/09	38.07	3532.60	11,200	25,700	< 0.001	< 0.001	< 0.001	< 0.003
	11/09/09	38.36	3532.31	11,000	24,900	< 0.001	< 0.001	< 0.001	< 0.003
MW-2	02/11/09	35.46	3533.12	12,600	27,000	< 0.001	< 0.001	< 0.001	< 0.003
	05/14/09	35.37	3533.21	11,300	25,200	< 0.001	< 0.001	< 0.001	< 0.003
	08/27/09	35.76	3532.82	12,400	27,900	< 0.001	< 0.001	< 0.001	< 0.003
	11/09/09	36.01	3532.57	12,400	25,600	< 0.001	< 0.001	< 0.001	< 0.003
MW-3	02/11/09	38.11	3532.83	11,800	26,100	< 0.001	< 0.001	< 0.001	< 0.003
	05/14/09	38.19	3532.75	11,600	24,900	< 0.001	< 0.001	< 0.001	< 0.003
	08/27/09	38.48	3532.46	11,300	25,300	< 0.001	< 0.001	< 0.001	< 0.003
	11/09/09	38.73	3532.21	11,200	24,700	< 0.001	< 0.001	< 0.001	< 0.003
RW-1	03/31/09	35.94	3533.02	12,000	26,200	< 0.001	< 0.001	< 0.001	< 0.003
	06/03/09	36.03	3532.93	12,000	26,000	< 0.001	< 0.001	< 0.001	< 0.003
	08/27/09	36.33	3532.63	11,800	26,300	< 0.001	< 0.001	< 0.001	< 0.003
	11/09/09	NM	NM	11,200	25,400	< 0.001	< 0.001	< 0.001	< 0.003
WQCC Standards				250	1000	0.01	0.75	0.75	0.62

Total Dissolved Solids (TDS), chloride, and BTEX concentrations listed in milligrams per liter (mg/L).
Analyses performed by Cardinal Laboratories (Hobbs NM).
Values in boldface type indicate concentrations exceed New Mexico Water Quality Commission (WQCC) standards.
AMSL - Above Mean Sea Level; BTOC - Below Top of Casing
Elevations and state plane coordinates surveyed by Basin Surveys, Hobbs, NM.

MW-1
Chloride, TDS, and Groundwater Elevation Values Versus Time

