

AP - 67

ANNUAL MONITORING REPORT

YEAR(S):
2009



CERTIFIED MAIL
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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

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**RE: 2009 ANNUAL GROUNDWATER MONITORING REPORT
EME Jct. D-1 Site (AP-67)
T20S, R36E, Section 1, Unit Letter D, Lea County, New Mexico**

Mr. Hansen:

On behalf of Rice Operating Company (ROC), Trident Environmental takes this opportunity to submit the 2009 Annual Groundwater Monitoring Report for the Jct. D-1 site (AP-67) located in the Eunice-Monument-Eumont (EME) Salt Water Disposal (SWD) System.

In accordance with the NMOCD-approved *Amended Stage 2 Abatement Plan*, ROC has been operating a groundwater recovery system to remove 1,798 kg of chloride mass attributable to the Jct. D-1 site since April 2009. After re-seeding and application of soil amendments last spring, native vegetation has now reached full productive capacity. We expect to fully meet termination requirements for both the vadose zone and groundwater abatement objectives during 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, do not hesitate to contact me at (432) 638-8740 or 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

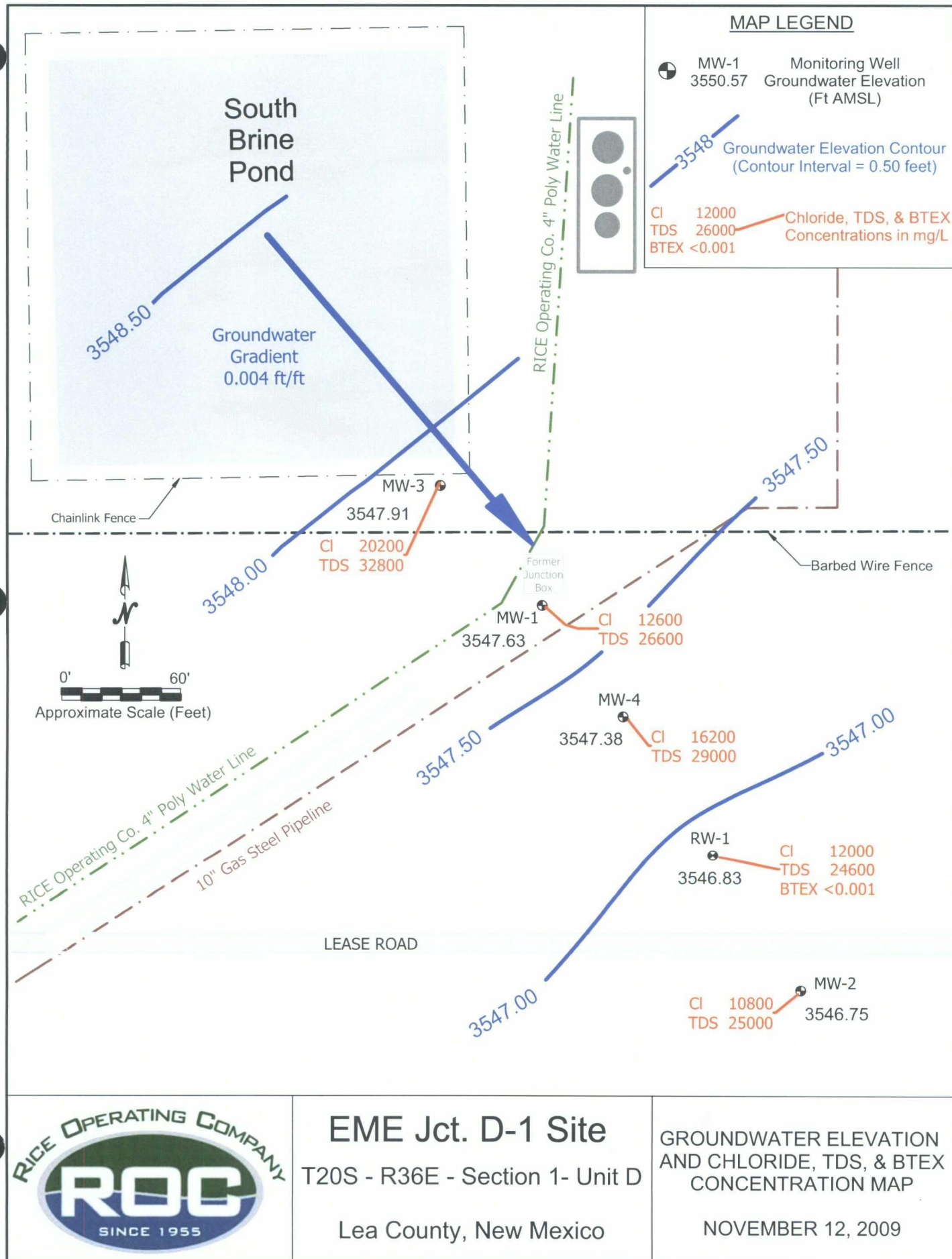


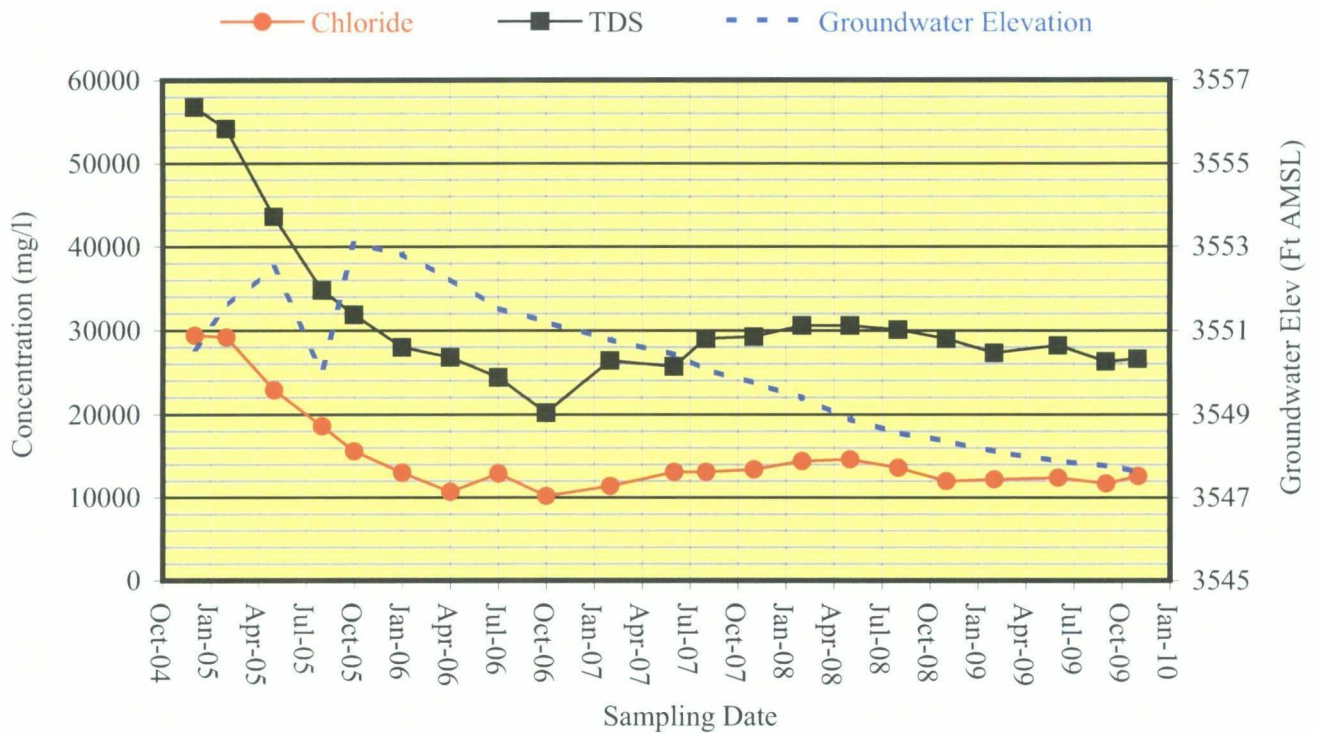
Table 1
Summary of Groundwater Sampling Results

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	12/21/04	37.20	3550.57	29,400	56,800	< 0.001	< 0.001	< 0.001	< 0.001
	02/09/05	36.20	3551.57	29,200	54,200	< 0.001	< 0.001	< 0.001	< 0.001
	05/03/05	35.27	3552.50	22,900	43,600	< 0.001	< 0.001	< 0.001	< 0.001
	08/13/05	37.74	3550.03	18,600	34,800	< 0.001	< 0.001	< 0.001	< 0.001
	10/19/05	34.70	3553.07	15,600	31,900	< 0.001	< 0.001	< 0.001	< 0.001
	01/18/06	34.95	3552.82	13,000	28,000	< 0.001	< 0.001	< 0.001	< 0.001
	04/19/06	35.54	3552.23	10,700	26,800	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	36.24	3551.53	12,900	24,400	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	36.57	3551.20	10,200	20,200	< 0.001	< 0.001	< 0.001	< 0.001
	02/27/07	36.99	3550.78	11,400	26,400	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	37.36	3550.41	13,100	25,700	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	37.71	3550.06	13,096	29,024	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	38.03	3549.74	13,400	29,255	< 0.001	< 0.001	< 0.001	< 0.003
	02/12/08	38.38	3549.39	14,400	30,600	< 0.001	< 0.001	< 0.001	< 0.003
	05/19/08	38.89	3548.88	14,600	30,600	< 0.002	< 0.002	< 0.002	< 0.006
	08/21/08	39.22	3548.55	13,600	30,100	< 0.001	< 0.001	< 0.001	< 0.003
	11/20/08	39.41	3548.36	12,000	29,000	< 0.001	< 0.001	< 0.001	< 0.003
	02/20/09	39.66	3548.11	12,200	27,300	---	---	---	---
	06/02/09	39.89	3547.88	12,400	28,200	---	---	---	---
	09/01/09	40.01	3547.76	11,700	26,300	---	---	---	---
	11/12/09	40.14	3547.63	12,600	26,600	---	---	---	---
MW-2	04/19/06	33.89	3551.73	8,730	19,200	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	34.65	3550.97	9,390	19,950	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	34.87	3550.75	7,910	18,000	< 0.001	< 0.001	< 0.001	< 0.001
	02/27/07	35.38	3550.24	8,780	20,100	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	35.87	3549.75	9,230	20,500	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	36.19	3549.43	8,997	22,820	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	36.48	3549.14	9,200	22,905	< 0.001	< 0.001	< 0.001	< 0.003
	02/12/08	36.85	3548.77	9,500	23,000	< 0.001	< 0.001	< 0.001	< 0.003
	05/19/08	37.34	3548.28	10,200	23,300	< 0.002	< 0.002	< 0.002	< 0.006
	08/21/08	37.84	3547.78	11,400	25,900	< 0.001	< 0.001	< 0.001	< 0.003
	11/20/08	38.13	3547.49	10,400	25,300	< 0.001	< 0.001	< 0.001	< 0.003
	02/20/09	38.31	3547.31	11,000	24,600	---	---	---	---
	06/02/09	38.64	3546.98	10,800	25,300	---	---	---	---
	09/01/09	38.82	3546.80	10,200	24,500	---	---	---	---
	11/12/09	38.87	3546.75	10,800	25,000	---	---	---	---

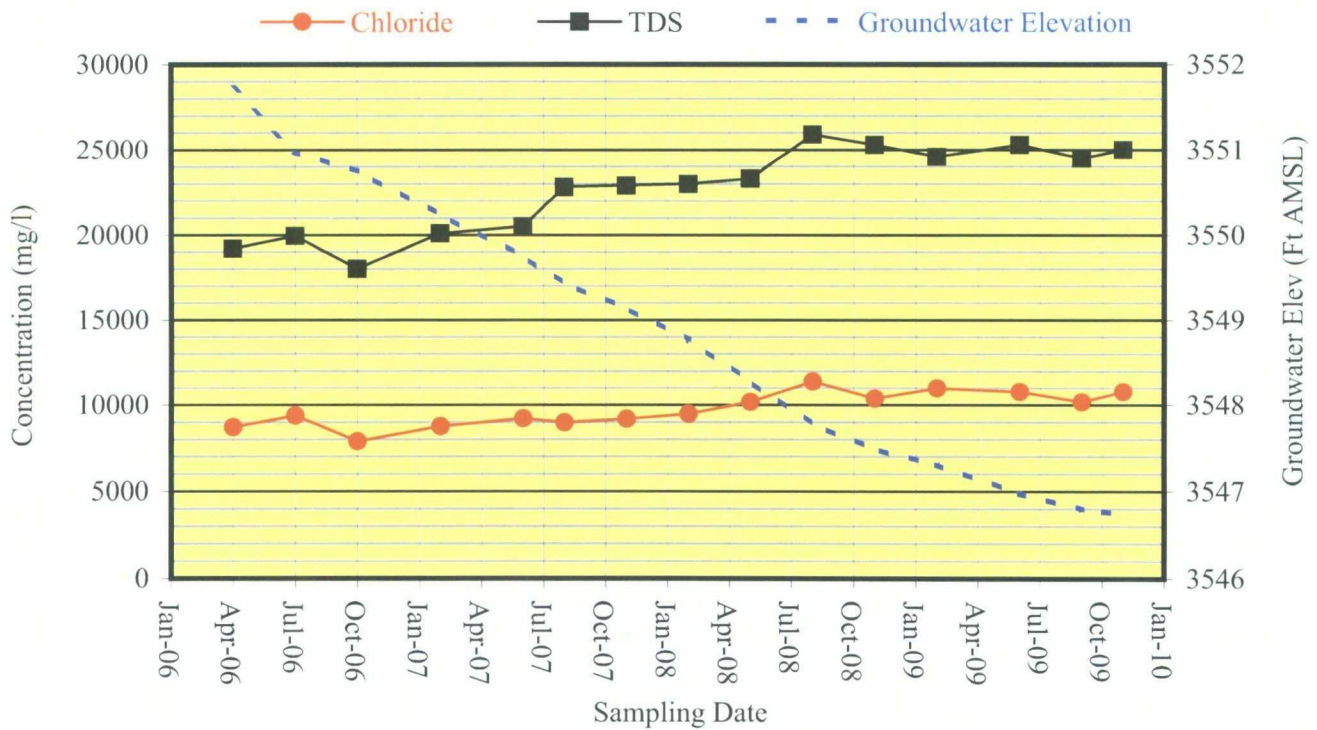
Table 1
Summary of Groundwater Sampling Results

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-3	04/19/06	37.55	3552.29	11,100	25,600	< 0.001	< 0.001	< 0.001	< 0.001
	07/18/06	38.24	3551.60	15,400	25,900	< 0.001	< 0.001	< 0.001	< 0.001
	10/10/06	38.59	3551.25	13,100	24,000	< 0.001	< 0.001	< 0.001	< 0.001
	02/27/07	39.00	3550.84	15,900	30,800	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	39.47	3550.37	18,100	33,100	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	39.81	3550.03	12,696	28,292	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	39.99	3549.85	14,900	32,095	< 0.001	< 0.001	< 0.001	< 0.003
	02/12/08	40.35	3549.49	15,600	33,500	< 0.001	< 0.001	< 0.001	< 0.003
	05/19/08	40.68	3549.16	16,000	32,800	< 0.002	< 0.002	< 0.002	< 0.006
	08/21/08	41.08	3548.76	12,800	28,000	< 0.001	< 0.001	< 0.001	< 0.003
	11/20/08	41.25	3548.59	13,000	29,100	< 0.001	< 0.001	< 0.001	< 0.003
	02/20/09	41.49	3548.35	13,400	29,200	---	---	---	---
	06/02/09	41.71	3548.13	16,600	35,100	---	---	---	---
	09/01/09	41.75	3548.09	15,600	32,500	---	---	---	---
	11/12/09	41.93	3547.91	20,200	32,800	---	---	---	---
MW-4	12/22/06	35.97	3550.93	12,900	22,700	< 0.001	< 0.001	< 0.001	< 0.001
	02/27/07	36.23	3550.67	11,800	26,400	< 0.001	< 0.001	< 0.001	< 0.001
	06/04/07	36.67	3550.23	12,600	25,100	< 0.001	< 0.001	< 0.001	< 0.001
	08/20/07	37.00	3549.90	13,196	28,968	< 0.002	< 0.002	< 0.002	< 0.006
	11/06/07	37.32	3549.58	11,900	26,419	< 0.001	< 0.001	< 0.001	< 0.003
	02/12/08	37.67	3549.23	13,900	30,200	< 0.001	< 0.001	< 0.001	< 0.003
	05/19/08	38.08	3548.82	14,400	29,900	< 0.002	< 0.002	< 0.002	< 0.006
	08/21/08	38.53	3548.37	12,800	29,200	< 0.001	< 0.001	< 0.001	< 0.003
	11/20/08	38.83	3548.07	12,600	28,100	< 0.001	< 0.001	< 0.001	< 0.003
	02/20/09	38.97	3547.93	15,000	30,600	---	---	---	---
	06/02/09	39.23	3547.67	14,600	31,500	---	---	---	---
	09/01/09	39.37	3547.53	15,400	32,300	---	---	---	---
	11/12/09	39.52	3547.38	16,200	29,000	---	---	---	---
RW-1	11/20/08	38.16	3547.59	12,600	27,900	< 0.001	< 0.001	< 0.001	< 0.003
	02/20/09	38.35	3547.40	12,400	27,100	< 0.001	< 0.001	< 0.001	< 0.003
	06/02/09	38.71	3547.04	11,800	27,000	< 0.001	< 0.001	< 0.001	< 0.003
	09/01/09	38.74	3547.01	11,800	26,000	< 0.001	< 0.001	< 0.001	< 0.003
	11/12/09	38.92	3546.83	12,000	24,600	< 0.001	< 0.001	< 0.001	< 0.003
WQCC Standards				250	1,000	0.01	0.75	0.75	0.62

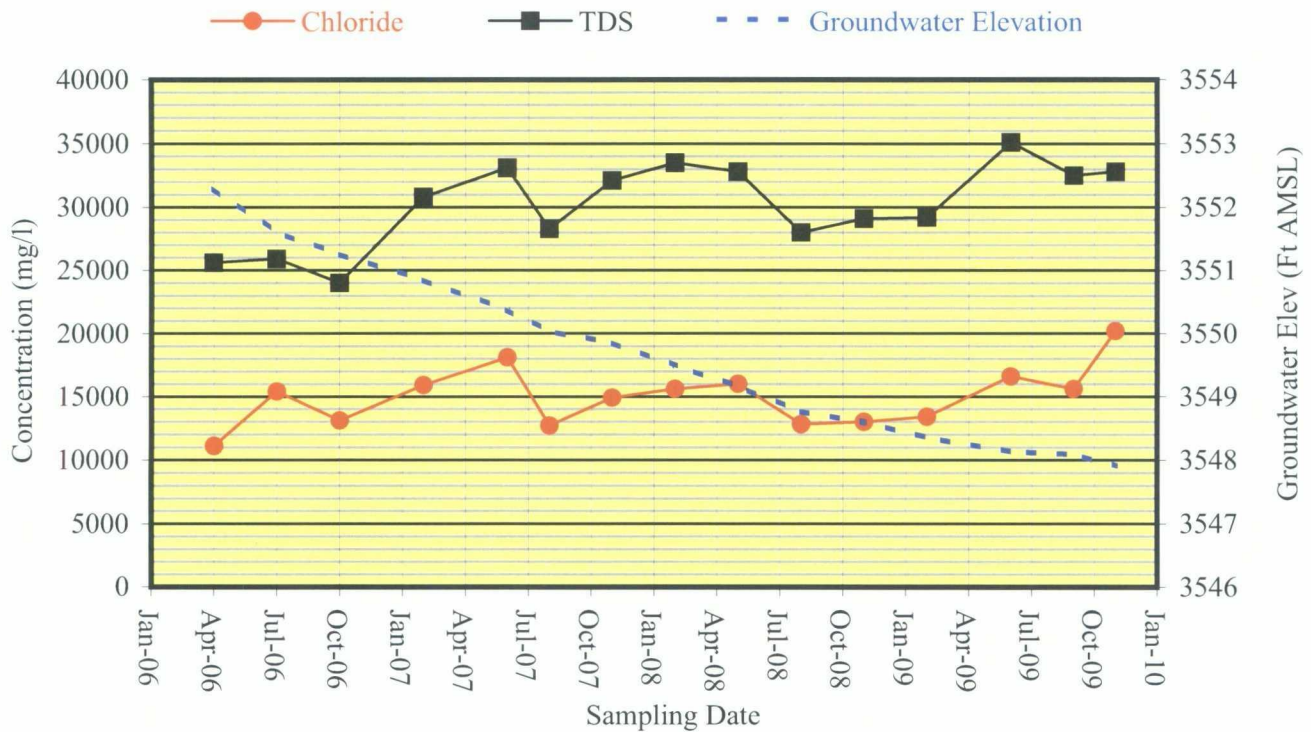
MW-1: Chloride, TDS, and Groundwater Elevation Values Versus Time



MW-2: Chloride, TDS, and Groundwater Elevation Values Versus Time



MW-3: Chloride, TDS, and Groundwater Elevation Values Versus Time



MW-4: Chloride, TDS, and Groundwater Elevation Values Versus Time

