



August 30, 2011

Mr. Keith I. McConnell, Deputy Director
Decommissioning & Uranium Recovery Licensing Directorate
Division of Waste Management & Environmental Protection
Office of Federal & State Materials & Environmental Management Programs
Mail Stop T-8F5
U.S. Nuclear Regulatory Commission
11545 Rockville Pike
Rockville, Maryland 20852-2738

Re: Docket No. 40-6622, License No. SUA-442 - *Shirley Basin*

Dear Mr. McConnell:

Enclosed please find two copies of the semi-annual ground water monitoring report as required by SUA-442 license condition 47C. This report presents data through the second quarter, 2011; historical data are included in the concentration versus time plots that are required by condition 47C.

Sincerely,

A handwritten signature in dark ink, appearing to read 'R. Mark Owens', written over a horizontal line.

R. Mark Owens
General Manager

Enclosure

cc: D. B. Spitzberg, U.S. NRC – Region IV

PATHFINDER MINES CORPORATION

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**SEMI-ANNUAL
GROUND-WATER MONITORING
FOR SHIRLEY BASIN MINE**

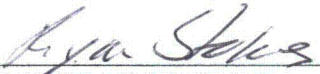
PREPARED FOR:

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SHIRLEY BASIN MINE**

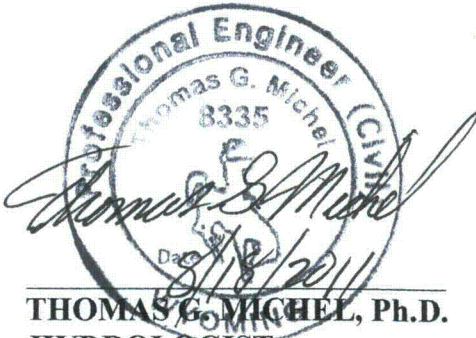
BY:

HYDRO-ENGINEERING, L.L.C.

August, 2011



RYAN STOKES, E.I.T



**THOMAS G. MICHEL, Ph.D.
HYDROLOGIST**

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1.0 Introduction and Summary of Results

This semi-annual report presents the results of ground-water monitoring and surface-water monitoring through June 2011 for Pathfinder Mines Corporation's Shirley Basin mill and tailings facility. This report is the tenth in the series of semi-annual reports required by NRC License SUA-442, License Condition 47.C.

The following table lists the site standards that are in effect for POC wells NP01 and RPI-19B which are located to the east of the Shirley Basin tailings facility. The tabulation also lists the measured May 2011 concentrations for the POC wells. All of the present concentrations in the POC wells are at levels below detection or are significantly below the corresponding site standards.

TABLE 1. GROUND-WATER PROTECTION STANDARDS AND MAY 2011 WATER-QUALITY DATA FOR POINT-OF-COMPLIANCE WELLS NP01 AND RPI-19B.				
	POC WELL NP01	WELL NP01 MAY 2011	POC WELL RPI-19B	WELL RPI-19B MAY 2011
CONSTITUENT	SITE STANDARD	SAMPLE RESULTS	SITE STANDARD	SAMPLE RESULTS
ARSENIC	0.05	0.003	0.05	0.002
BARIUM	1.00	0.10	1.00	0.10
BERYLLIUM	0.02	<0.01	0.02	<0.01
CADMIUM	0.01	<0.01	0.01	<0.01
CHROMIUM	0.05	<0.05	0.05	<0.05
GROSS ALPHA	15	1.30	15	1.20
LEAD	0.05	<0.001	0.05	<0.001
MOLYBDENUM	0.10	<0.1	0.10	<0.1
NICKEL	0.05	<0.05	0.05	<0.05
RA-226 + RA-228	12.70	3.20	13.76	1.4
SELENIUM	0.158	0.012	0.163	0.003
THORIUM-230	5.53	0.10	5.76	0.03
URANIUM	4.40	1.300	4.45	1.230
CHLORIDE	3275	880	3712	1240
TDS	11529	3610	12641	4260
SULFATE	4612	1000	5056	1000
NOTE: All concentrations in mg/l except for radium, thorium, and gross alpha in pCi/l.				

There are generally increasing trends in constituent concentrations for wells in close proximity to the reclaimed tailings. These increasing concentrations are consistent with expectations, although the magnitude of trends in key wells such as the POC wells is somewhat less than predicted and the increases in concentration are lagging predictions. The lagging is due in part to extension of corrective action efforts beyond the original plans, but may also reflect some conservatism in the prediction of seepage migration. The water quality data also reflect significant seasonal recharge effects that cause fairly dramatic swings in constituent concentrations in some wells.

2.0 Piezometric Data

The water-level data collected from 2008 through mid 2011 are presented in Table 2 to provide some indication of recent trends. Figure 1 presents the piezometric surface of the Surficial aquifer in the area between the tailings and Spring Creek. Figure 2 presents plots of the water-level elevation versus time for wells MC-14, NP01, RPI-14, RPI-19B, and RPI-18A. The corresponding water-level elevation or constituent concentration is posted adjacent to the well location on the plan view figures of the area (such as Figure 1). Water-level elevations after 2004 and 2005 have reflected some decay of the ground-water mounds in the area of the recharge lines following discontinuation of the recharge injection operations. Recent water-level elevation changes are more reflective of seasonal

recharge and the piezometric surface appears to be approaching a relatively steady condition with a general gradient from the tailings area to Spring Creek.

3.0 Water-Quality Data

License Condition 47.A requires monitoring of water quality from the POC wells, other selected wells, and from surface water sites for the constituents presented in Table 1. There was insufficient water in well RPI-20A in July 2006, September 2007, and June 2008 to collect a sample.

Figure 3 presents the May 2011 chloride concentrations for the Surficial aquifer and in Spring Creek at the surface water sampling sites. The chloride concentration is greatest at well RPE-10 which is located approximately 1200 feet east of the tailings in the southern portion of the monitoring area. Chloride concentration is moderately elevated at wells closer to the reclaimed tailings, and there is a general increasing trend in wells in the Mine Creek area including RPI-14, RPI-16A, and RPI-18A. There is also an increasing trend in concentration at wells RPI-10 and RPI-21B. Chloride concentration in well MC-14, and in the surface water samples is not significantly elevated over natural levels. Figure 4 presents the plots of chloride concentration versus time for wells MC-14, NP01, RPI-14, RPI-19B, and RPI-18A. Chloride concentration at POC well NP01 increased through early 2009, dropped in mid 2009, and then increased until early 2011. Chloride concentration in POC well RPI-19B has also been somewhat erratic, and this is attributed to seasonal recharge. There has been a general increasing chloride concentration trend in well RPI-19B since early 2007. Figure 5 presents the plots of chloride concentration at surface water sampling locations SW-1A, SC-2 and POE-DS. The chloride concentration at surface water sites is below levels of concern.

Figure 6 presents the May 2011 Ra226 + Ra228 activities for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Measured radium, thorium, and gross alpha activities are typically more erratic than other constituents, and therefore iso-concentration contours are less reliable indicators of the extent of seepage impacts. Figure 7 presents the plots of Ra226 + Ra228 activity versus time for wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B. The greater variability of measured activity for Ra226 + Ra228 is reflected in the plots. Figure 8 presents the plots of Ra226 + Ra228 activities at surface water sampling locations SW-1A, SC-2 and POE-DS.

Figure 9 presents the May 2011 selenium concentrations for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Selenium concentration is slightly greater than general background at wells MC-10, NP01, RPI-10, RPI-16A, RPI-21B and P-6. In general, the selenium concentration is more indicative of natural variability and selenium concentration in residual recharge injection water than a discernable level of seepage impacts. Figure 10 presents the plots of selenium concentration versus time for wells MC-14, NP01, RPI-14, RPI-19B, and RPI-18A. Figure 11 presents the plots of selenium concentration at surface water sampling locations SW-1A, SC-2 and POE-DS.

Figure 12 presents the May 2011 sulfate concentrations for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Sulfate concentrations in well RPI-18A show a significant increase from 2007 to early 2010, then a recent decreasing trend into mid 2011. Concentrations in RPI-20A are showing a somewhat erratic increasing trend. The sulfate concentrations in well RPI-18A are somewhat anomalous and may reflect some mobilization due to seasonal water-level fluctuations. June 2008 sulfate samples for wells MC-14 and P-6 were reanalyzed by the laboratory, and previously reported erroneous values were replaced with corrected values. Figure 13 presents the sulfate concentrations in wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B. Each well except

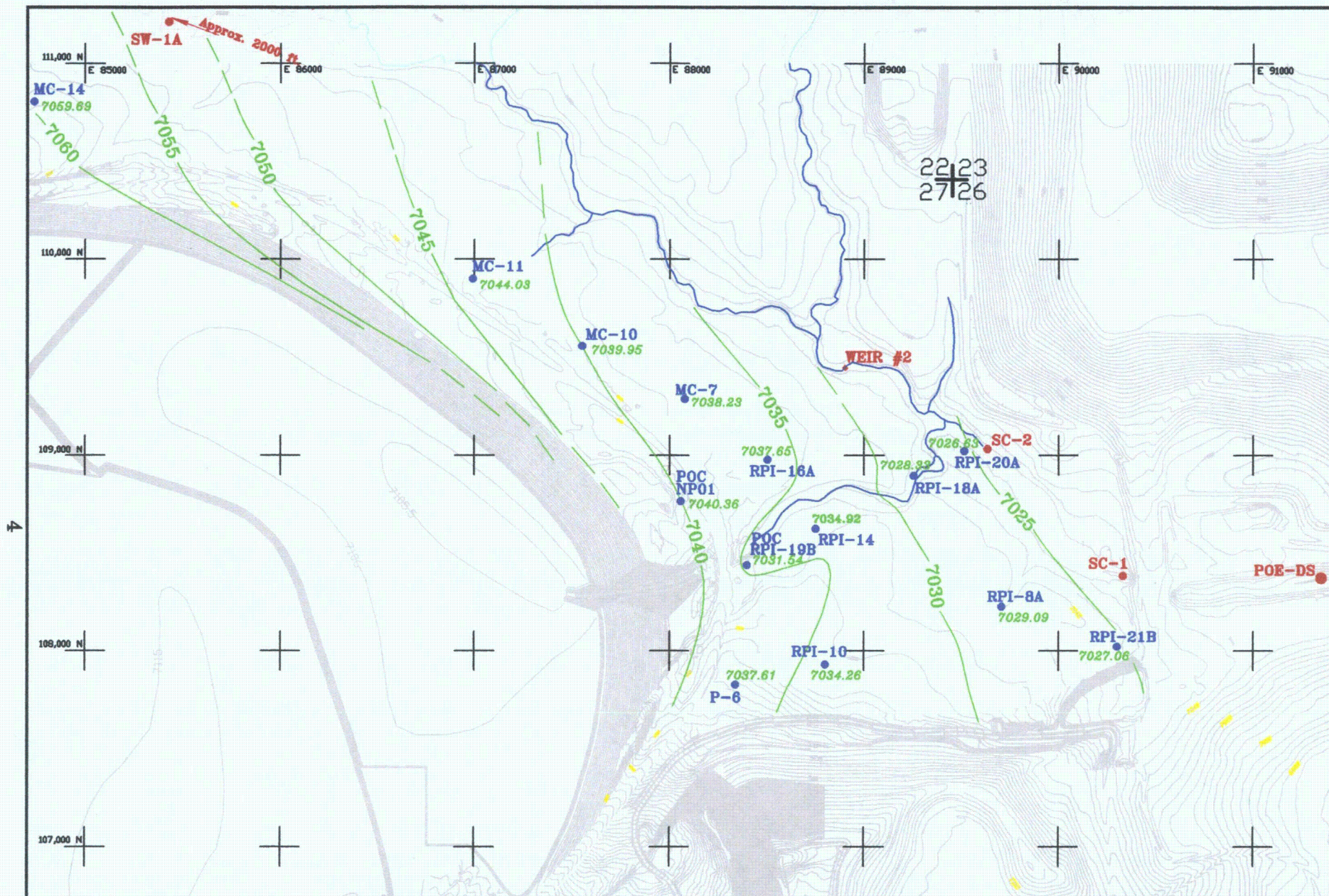
MC-14 has shown a noticeable rising trend since late 2006. Sulfate concentrations at all monitoring wells and surface water sampling locations are below the site standards at the POC wells. Figure 14 presents the plots of sulfate concentration at surface water sampling locations SW-1A, SC-2 and POE-DS.

Figure 15 presents the May 2011 thorium-230 activities for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Thorium-230 activities in ground-water samples and surface-water samples are very near or below the typical detection level. Figure 16 presents the plots of thorium-230 activity versus time for wells MC-14, RPI-14, NP01, RPI-18A and RPI-19B. Figure 17 presents the plots of thorium-230 activity at surface water sampling locations SW-1A, SC-2 and POE-DS. The sample record for upgradient site SW-1A illustrates the variability of thorium-230 activity with occasional spikes interspersed in the typical below detection limit sample activity. Current analytical techniques for thorium-230 activity allow reporting of negative values that indicate levels below detection.

Figure 18 presents the May 2011 TDS concentrations for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Recent TDS concentrations in well RPI-20A reflect the erratic and elevated sulfate concentration in this well since late 2005. Excepting MC-14, TDS concentration in the graphed wells shows an increasing trend for the last four years (see Figure 19). Recent TDS concentration has been erratic in wells RPI-19B and NP01. All TDS concentrations at the monitoring wells and surface water sampling locations are well below the site standards at the POC wells. Figure 20 presents the plots of TDS concentration at surface water sampling locations SW-1A, SC-2 and POE-DS.

Figure 21 presents the May 2011 uranium concentrations for the Surficial aquifer and in Spring Creek at the surface water sampling sites. Uranium concentration for wells NP01, RPI-10, RPI-14, RPI-16A, RPI-18A and RPI-19B has generally increased (see Figure 22) and there have been minor increases or relative stability at other locations. There does appear to be some seasonal recharge effect in wells NP01 and RPI-19B. All uranium concentrations at the monitoring wells and surface water sampling locations are well below the site standards at the POC wells. Figure 23 presents the plots of uranium concentration at surface water sampling locations SW-1A, SC-2 and POE-DS. A small increase in uranium concentration was observed at all three surface water sites including the upgradient site. This small change is not thought to be due to the tailings seepage.

Figure 24 presents concentrations of major constituents and uranium for well P-6. The changes in water quality in well P-6 are reflective of the ongoing seepage from the tailings and the expected impacts on the area where the Corrective Action Program (CAP) had previously served to contain seepage and restore the Surficial aquifer quality. As indicated in Figure 24, chloride concentration at well P-6 increased dramatically through early 2006, but has been relatively steady through mid 2010. Recent chloride values have been more erratic. Uranium concentration also increased dramatically through mid 2006, but appeared to have somewhat stabilized through mid 2011 to levels similar to those in mid 2006. Present constituent concentrations at well P-6 are similar to those that existed prior to significant restoration by the CAP.



LEGEND:

- 7058.6 MONITORING WELL WATER-LEVEL ELEVATION (FT-MSL)
- WATER-LEVEL ELEVATION CONTOURS

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SHIRLEY BASIN, WYOMING T28N R78W

FIGURE 1. LOCATIONS OF
MONITORING WELLS AND PIEZOMETRIC
CONTOURS FOR MID 2011.

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Serial: annual-8-2011.dwg HYDRO-ENGINEERING LLC.

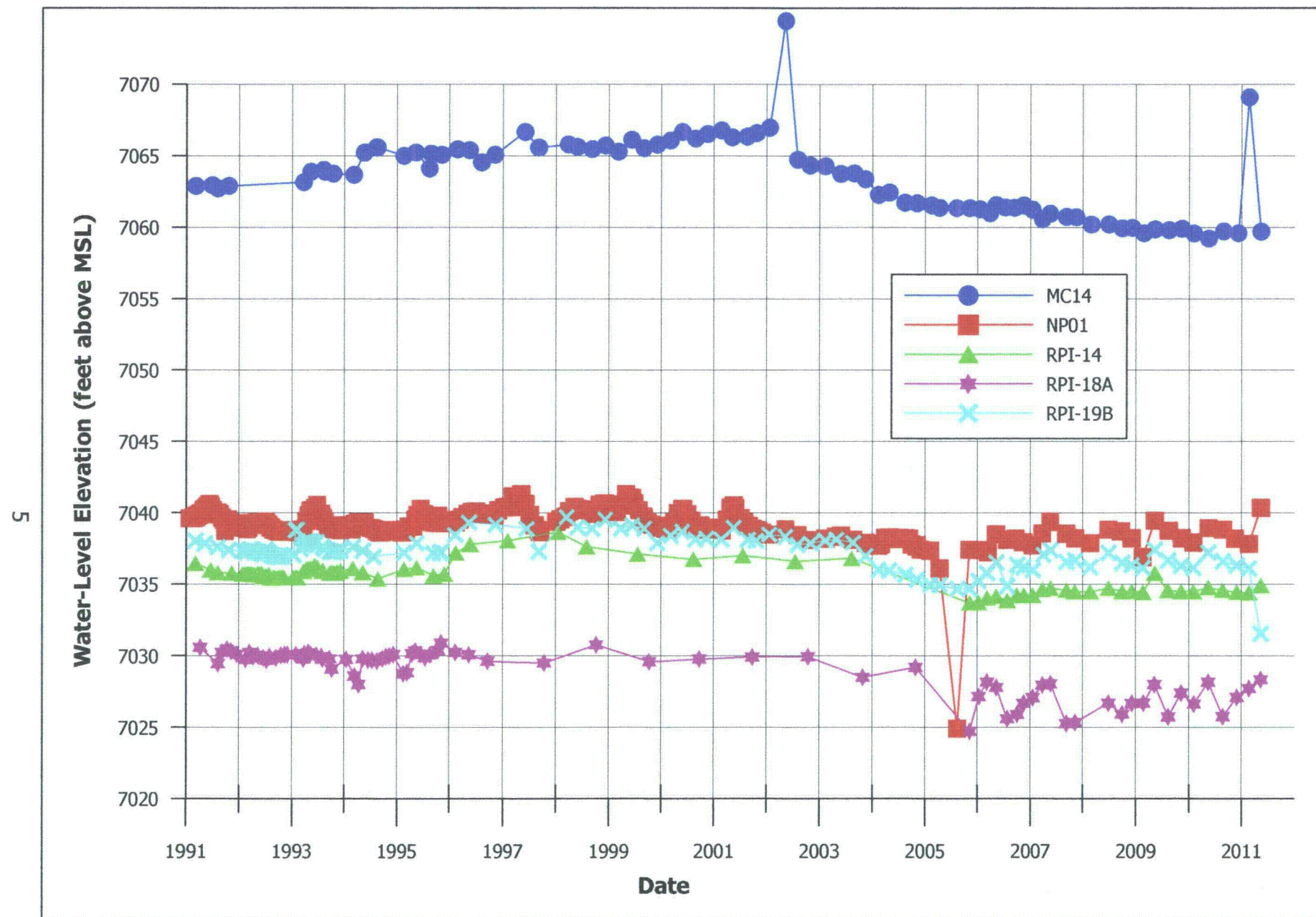
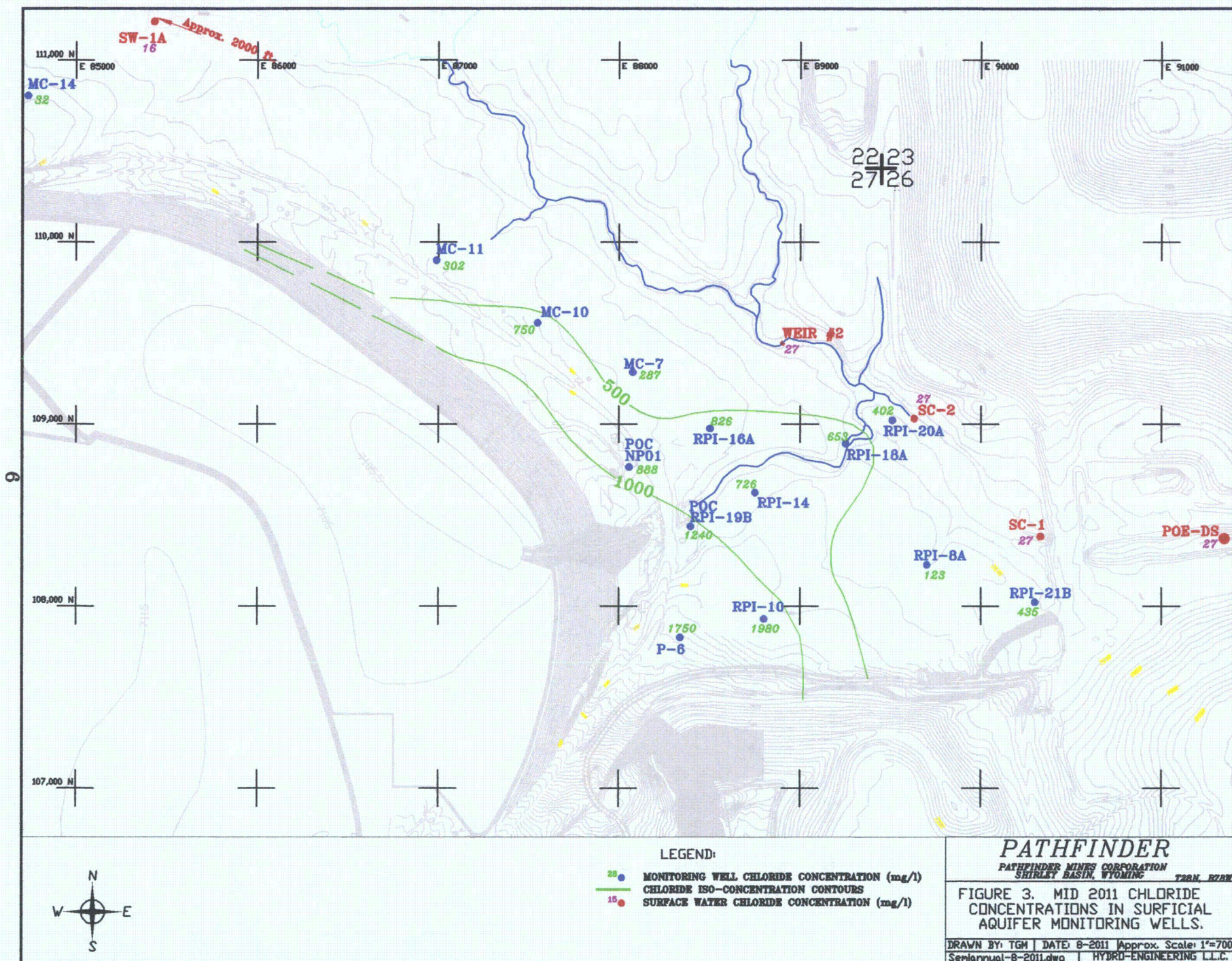


Figure 2. Water-Level Elevation Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B



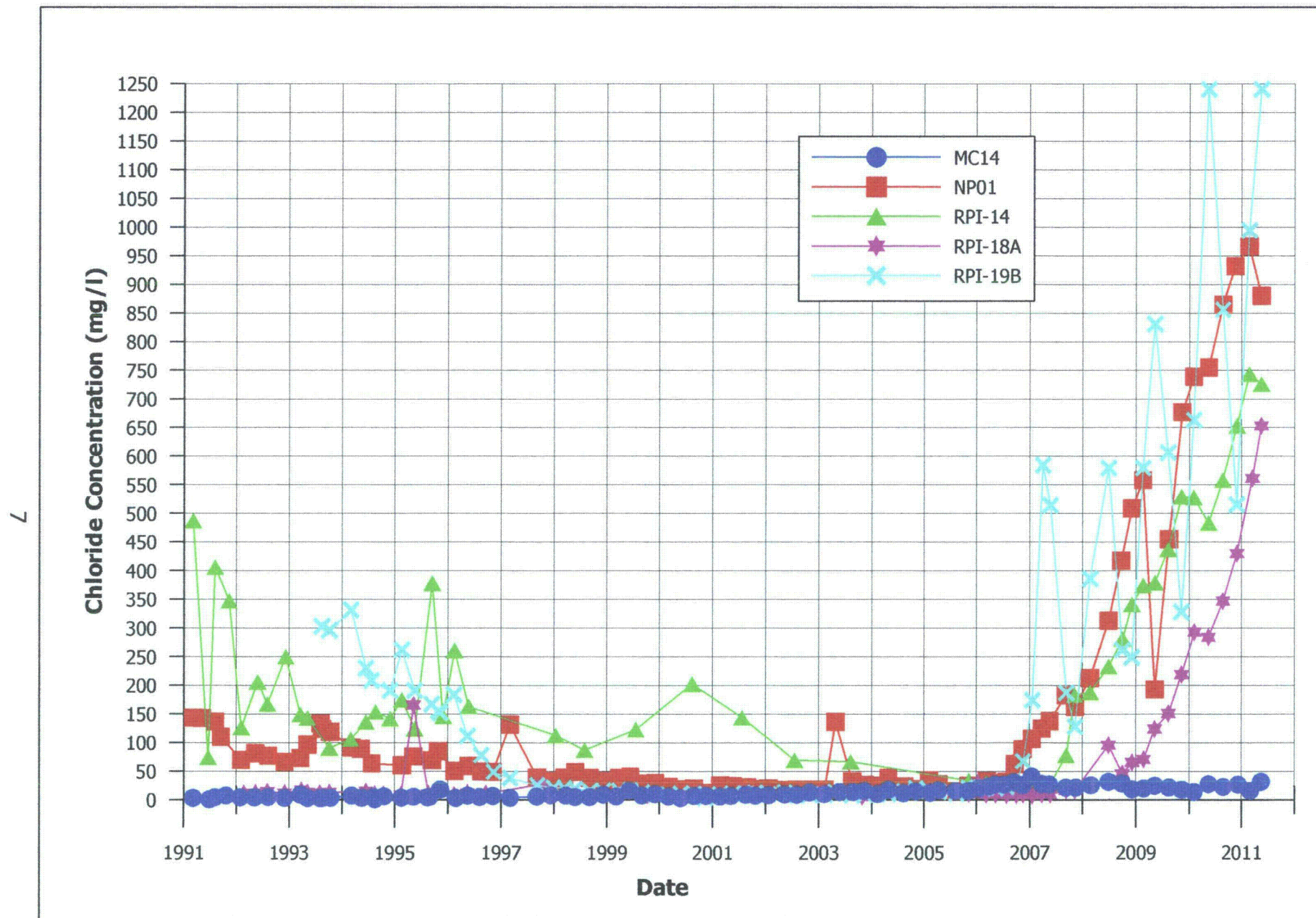


Figure 4. Chloride Concentration Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

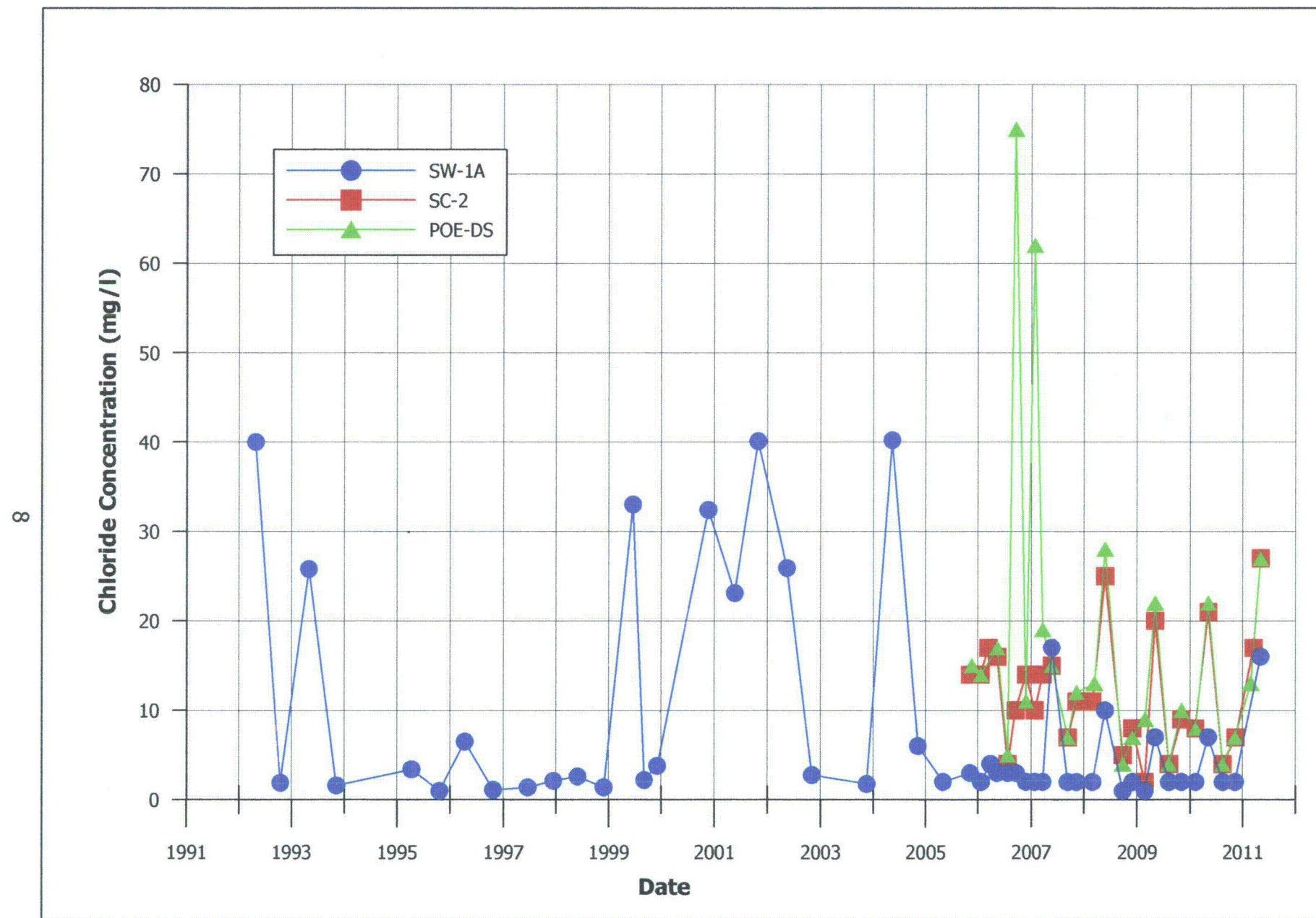
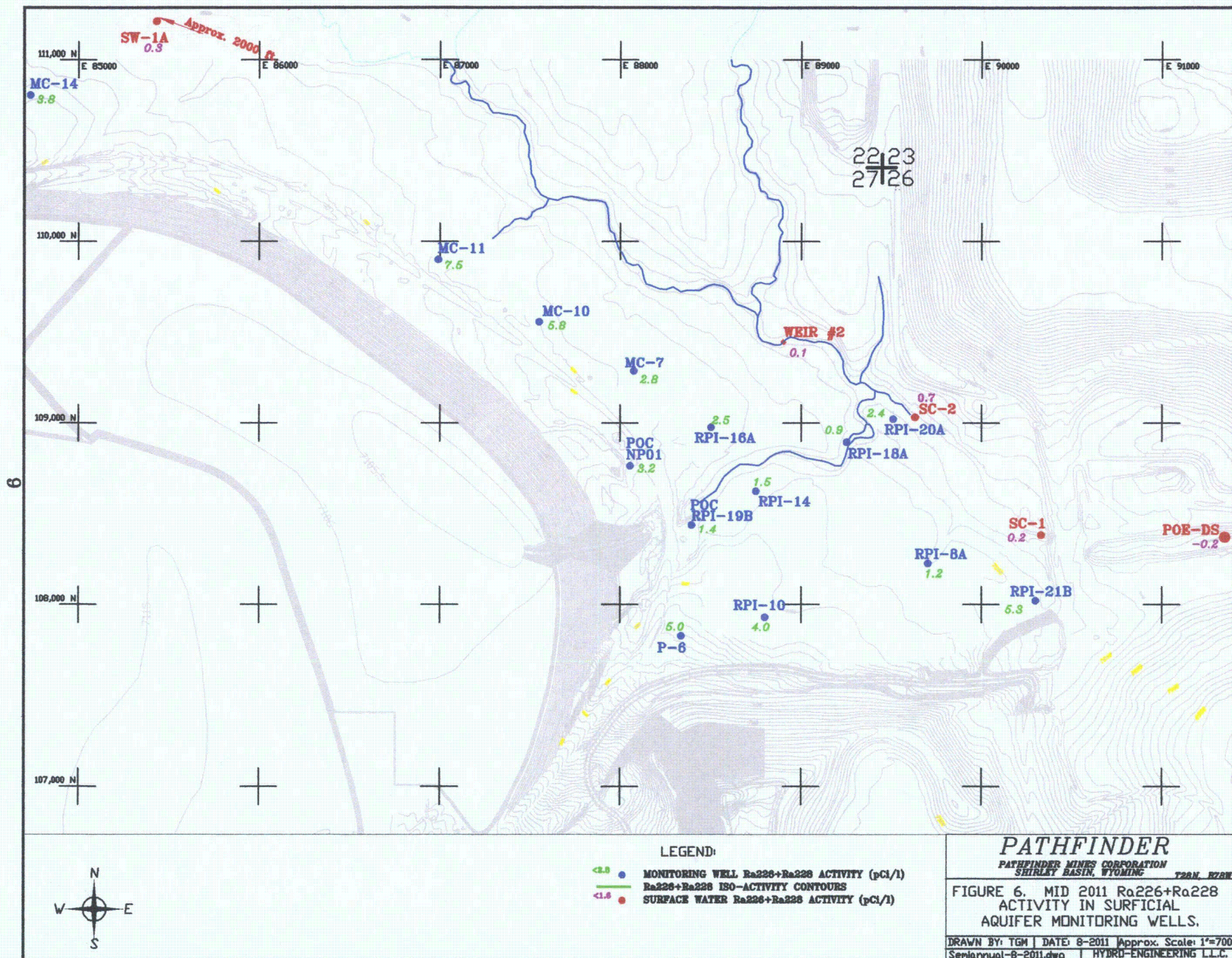


Figure 5. Chloride Concentration Versus Time For Surface Water
Sample Locations SW-1A, SC-2, and POE-DS



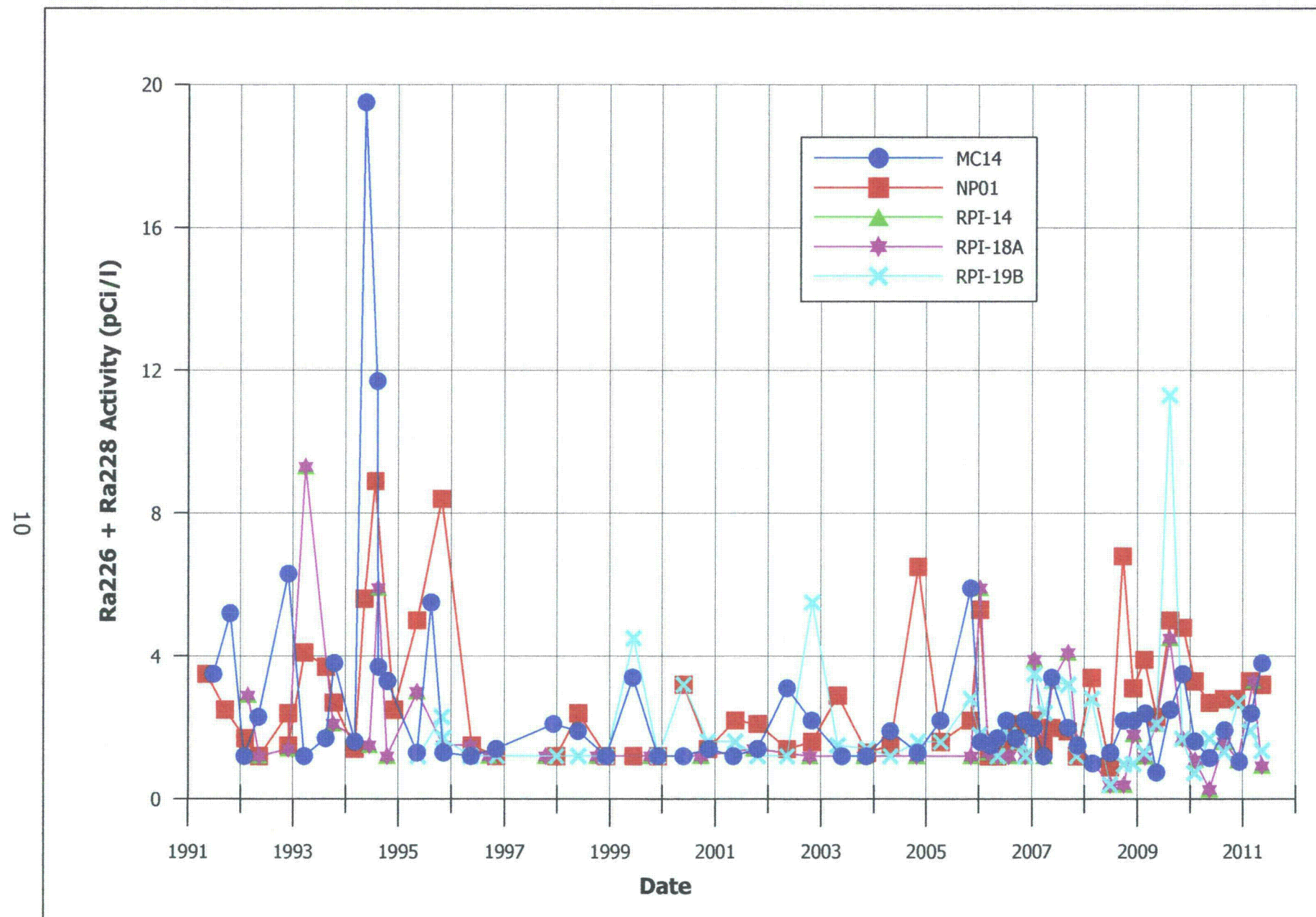


Figure 7. Ra226 + Ra228 Activity Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

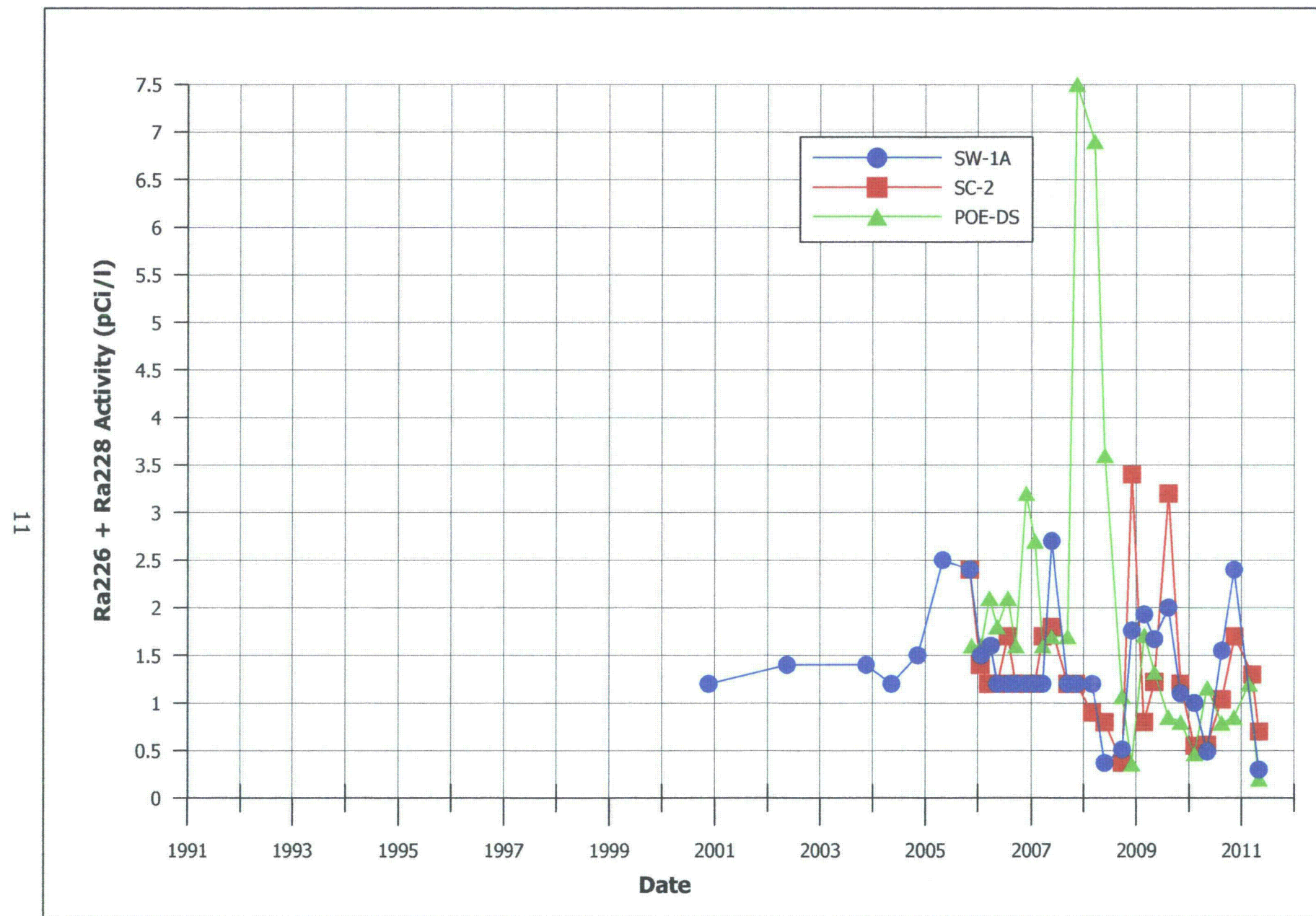
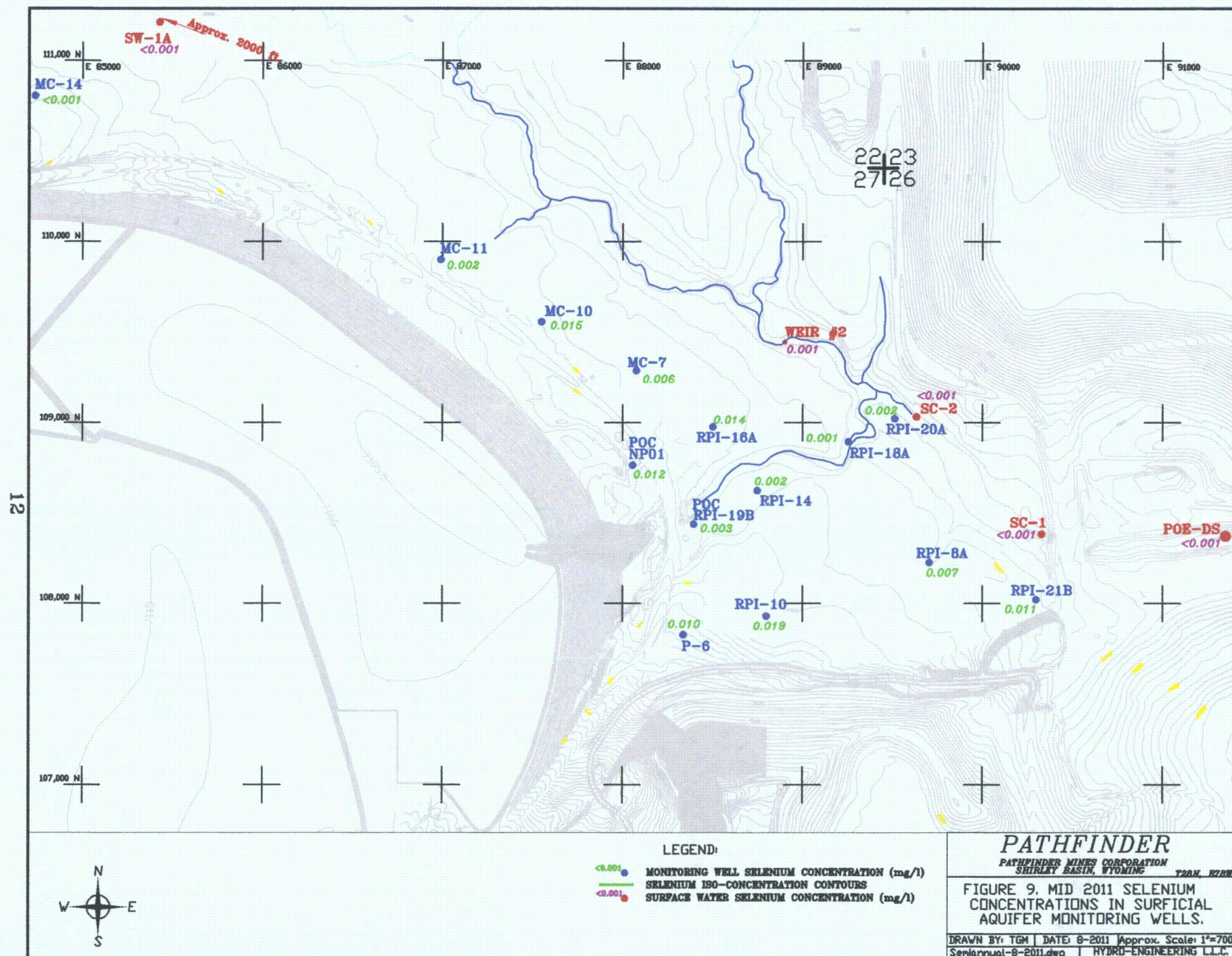


Figure 8. Ra226 + Ra228 Activity Versus Time For Surface Water Sample Locations SW-1A, SC-2, and POE-DS



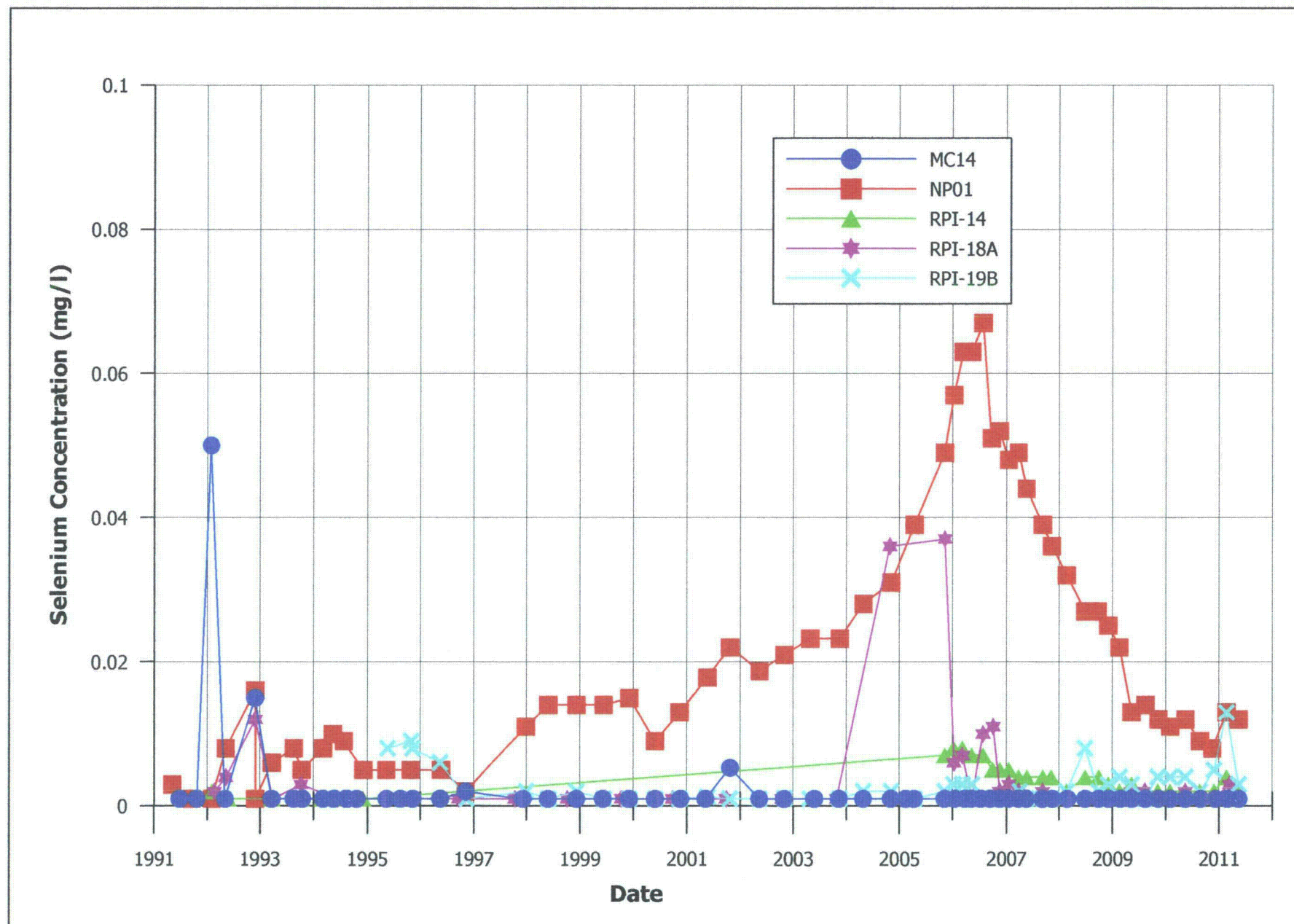


Figure 10. Selenium Concentration Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

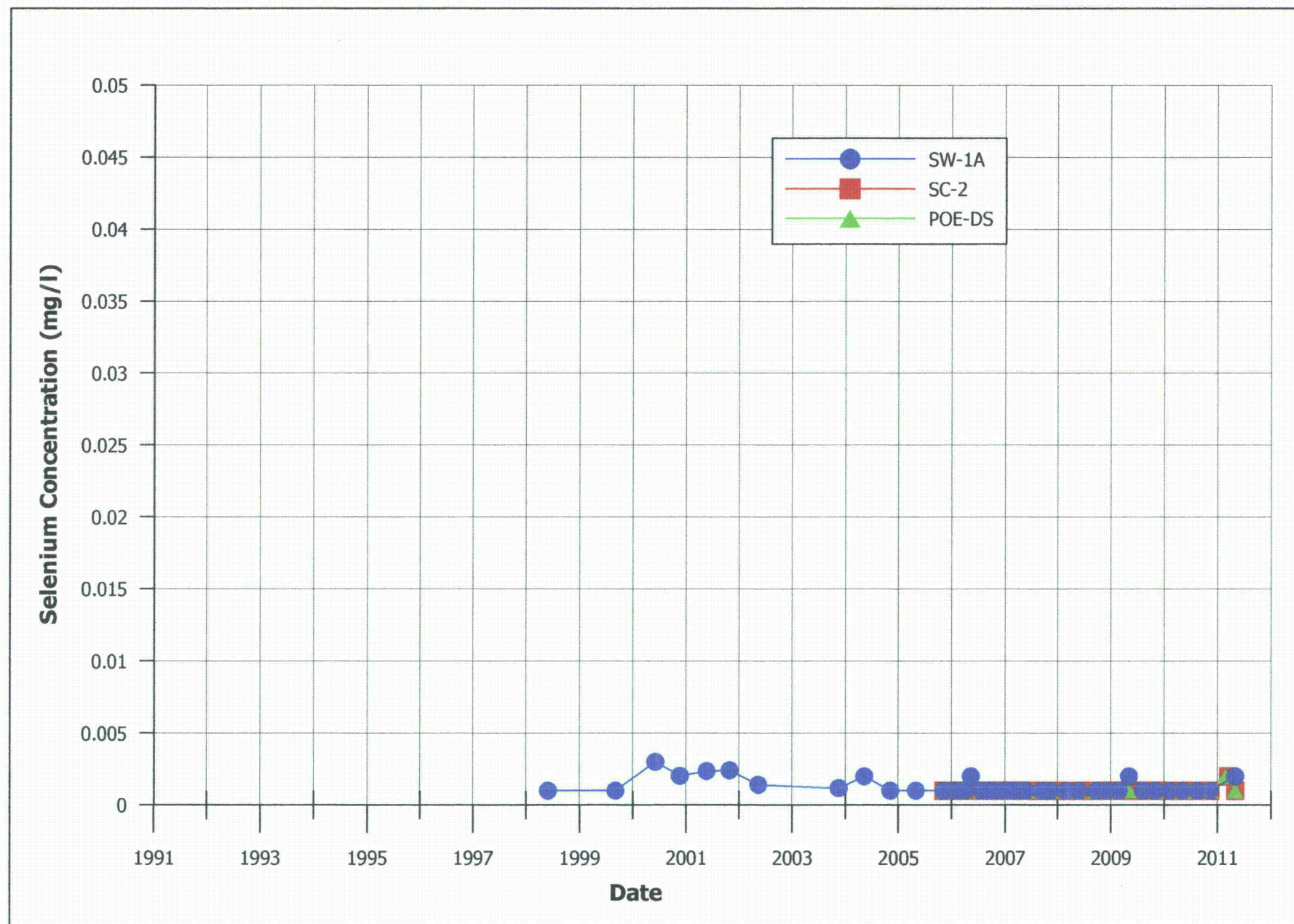
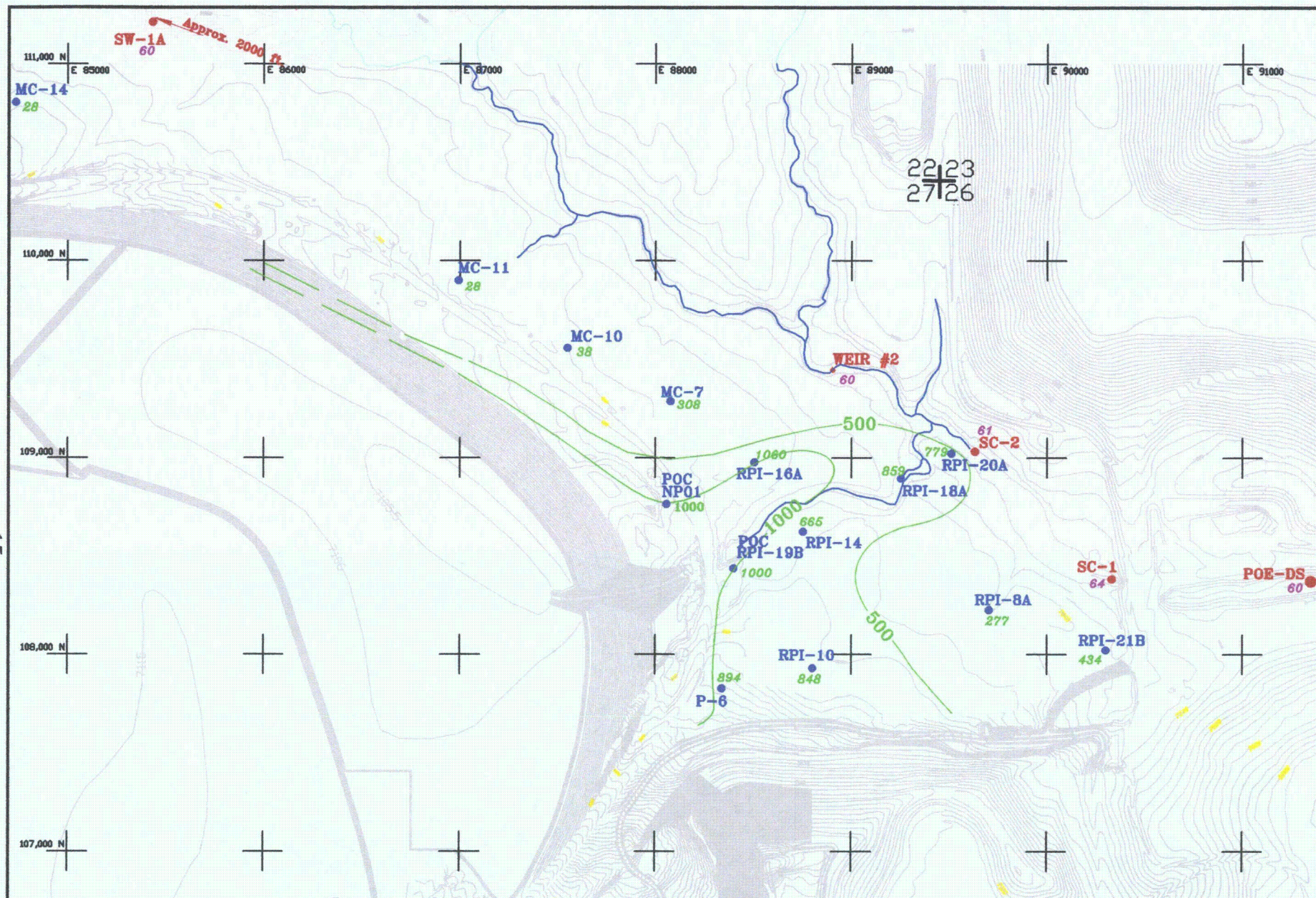


Figure 11. Selenium Concentration Versus Time For Surface Water
Sample Locations SW-1A, SC-2, and POE-DS



LEGEND:

- 238 ● MONITORING WELL SULFATE CONCENTRATION (mg/l)
- SULFATE ISO-CONCENTRATION CONTOURS
- 28 ● SURFACE WATER SULFATE CONCENTRATION (mg/l)

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SHIRLEY BASIN, WYOMING

TRAN. RTRW

FIGURE 12. MID 2011 SULFATE
CONCENTRATIONS IN SURFICIAL
AQUIFER MONITORING WELLS.

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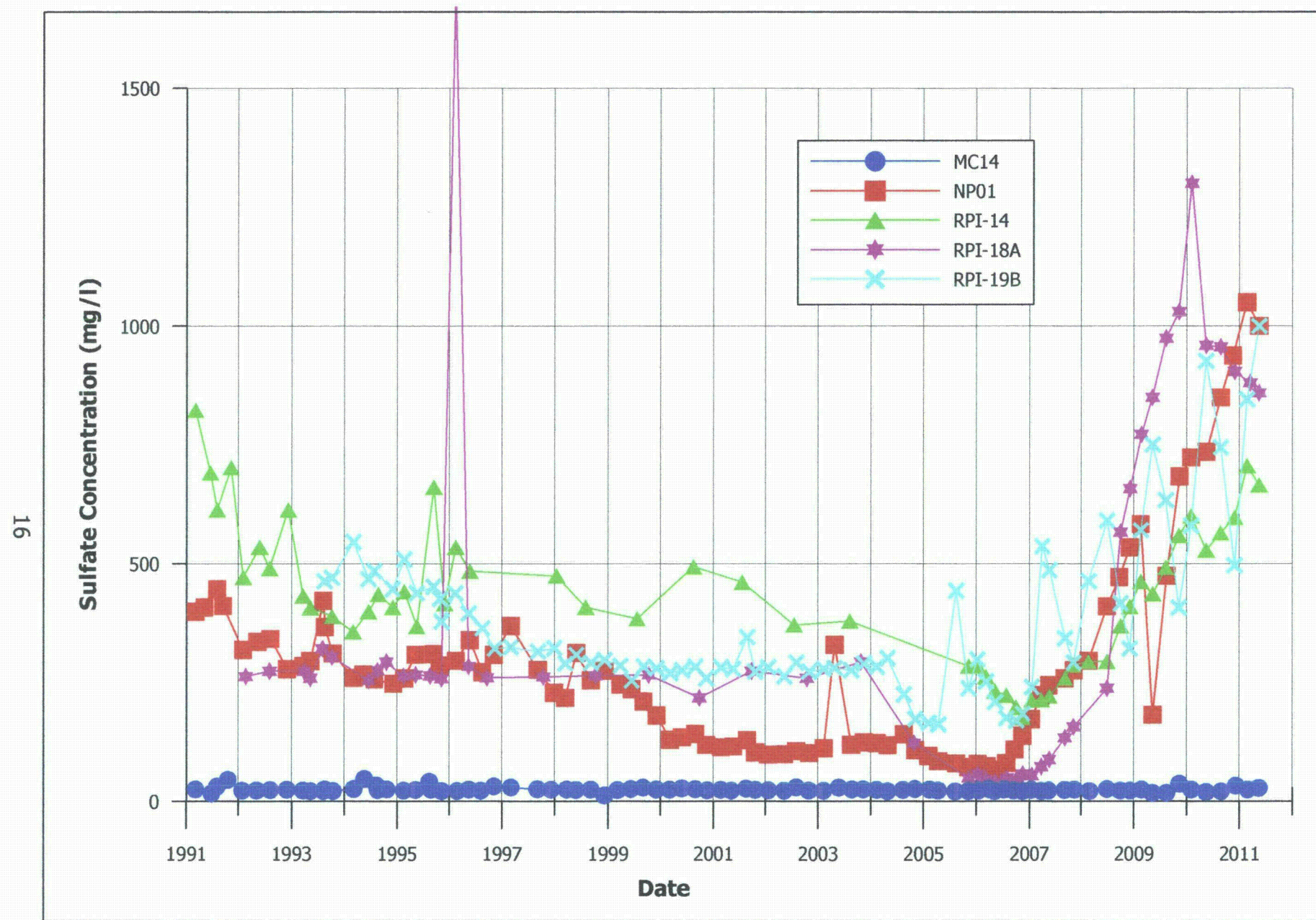


Figure 13. Sulfate Concentration Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

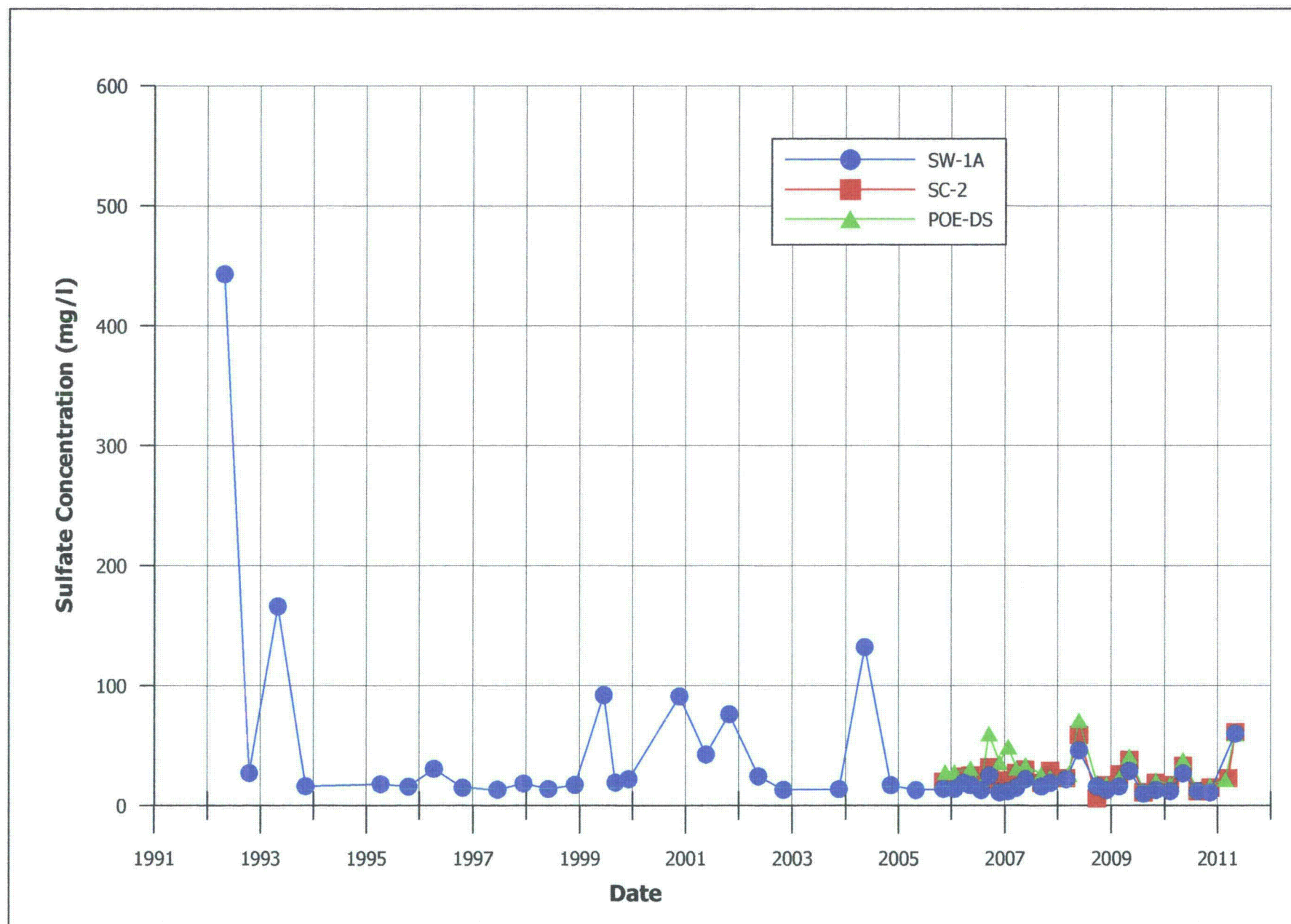
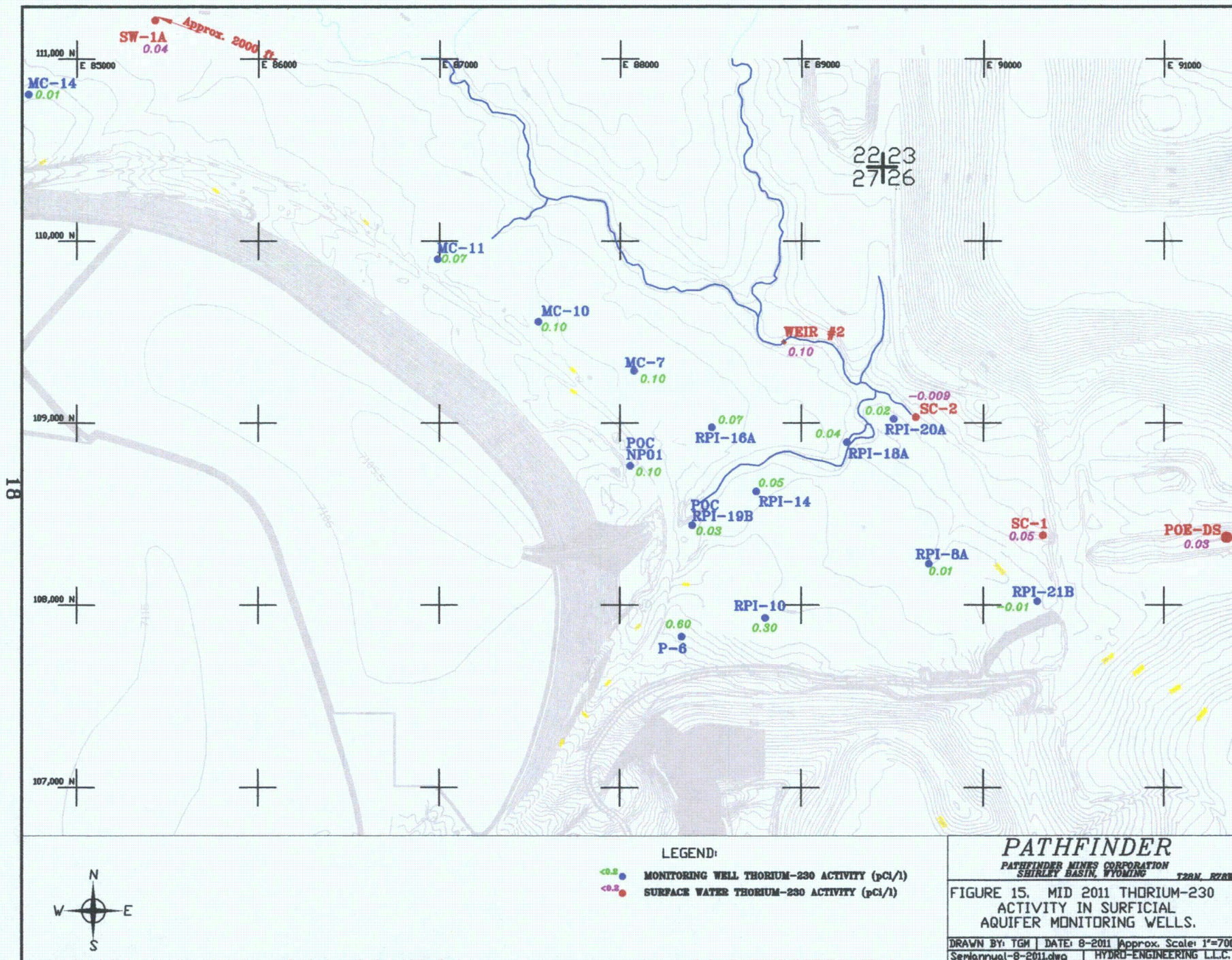


Figure 14. Sulfate Concentration Versus Time For Surface Water Sample Locations SW-1A, SC-2, and POE-DS



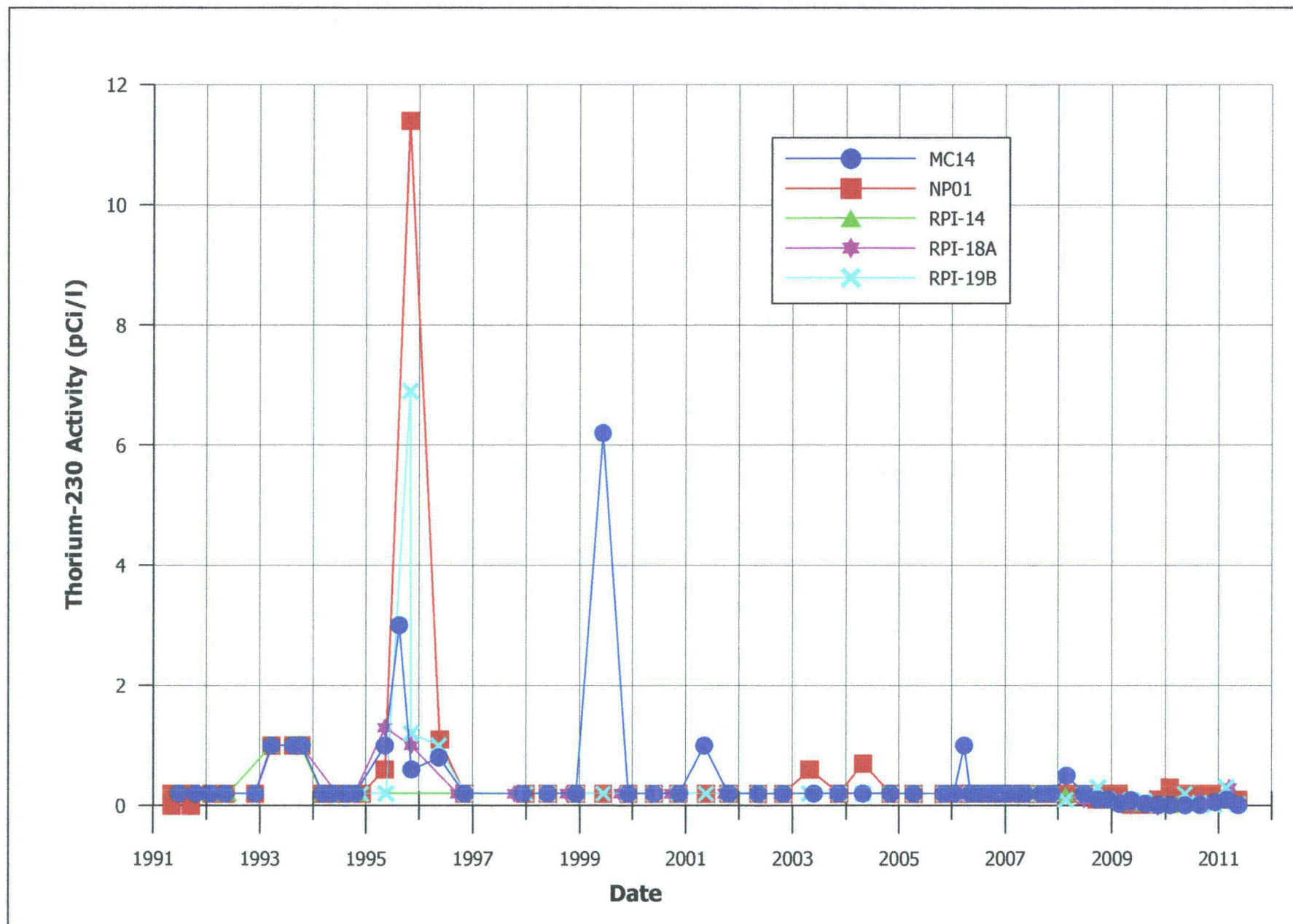


Figure 16. Thorium-230 Activity Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

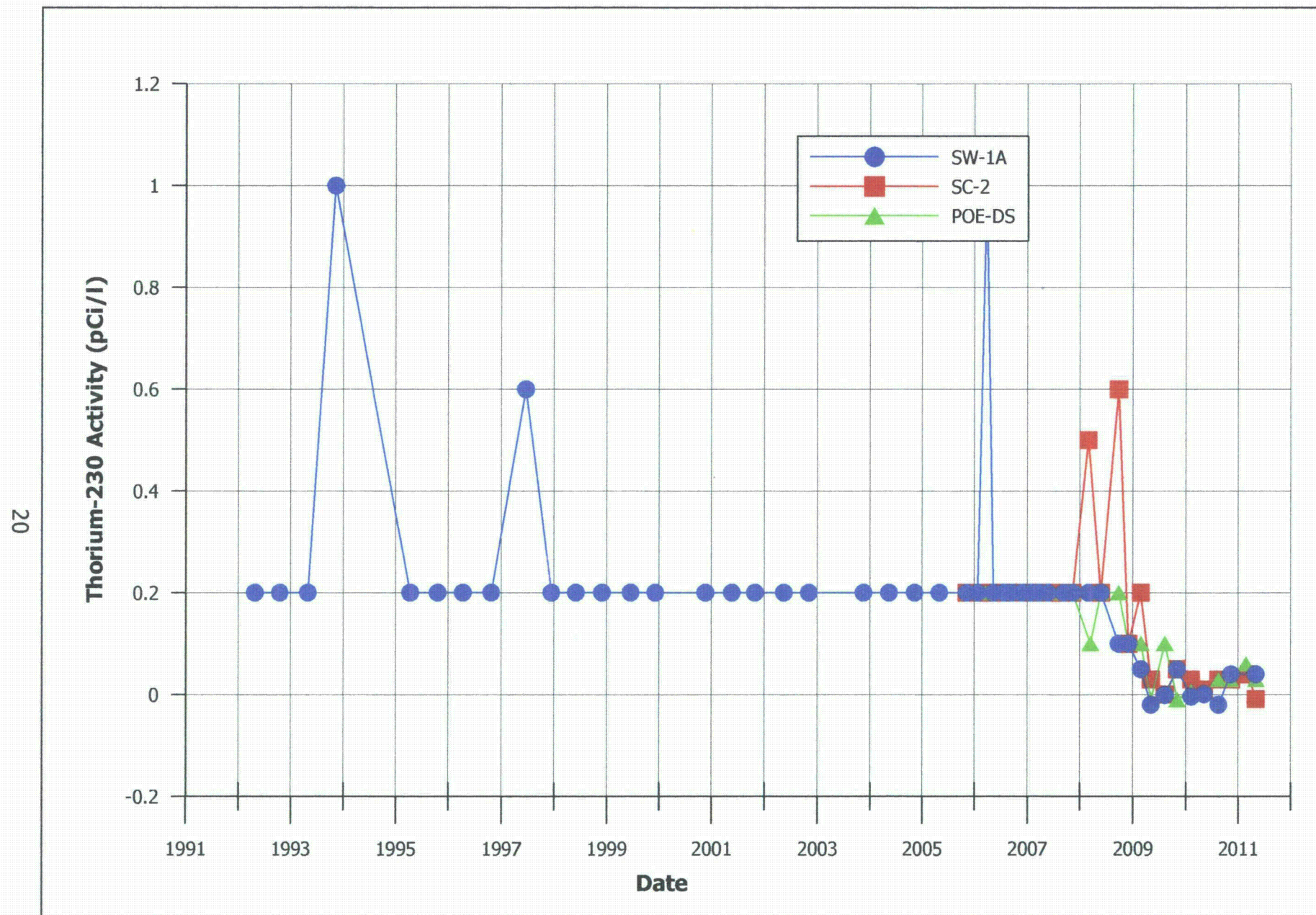
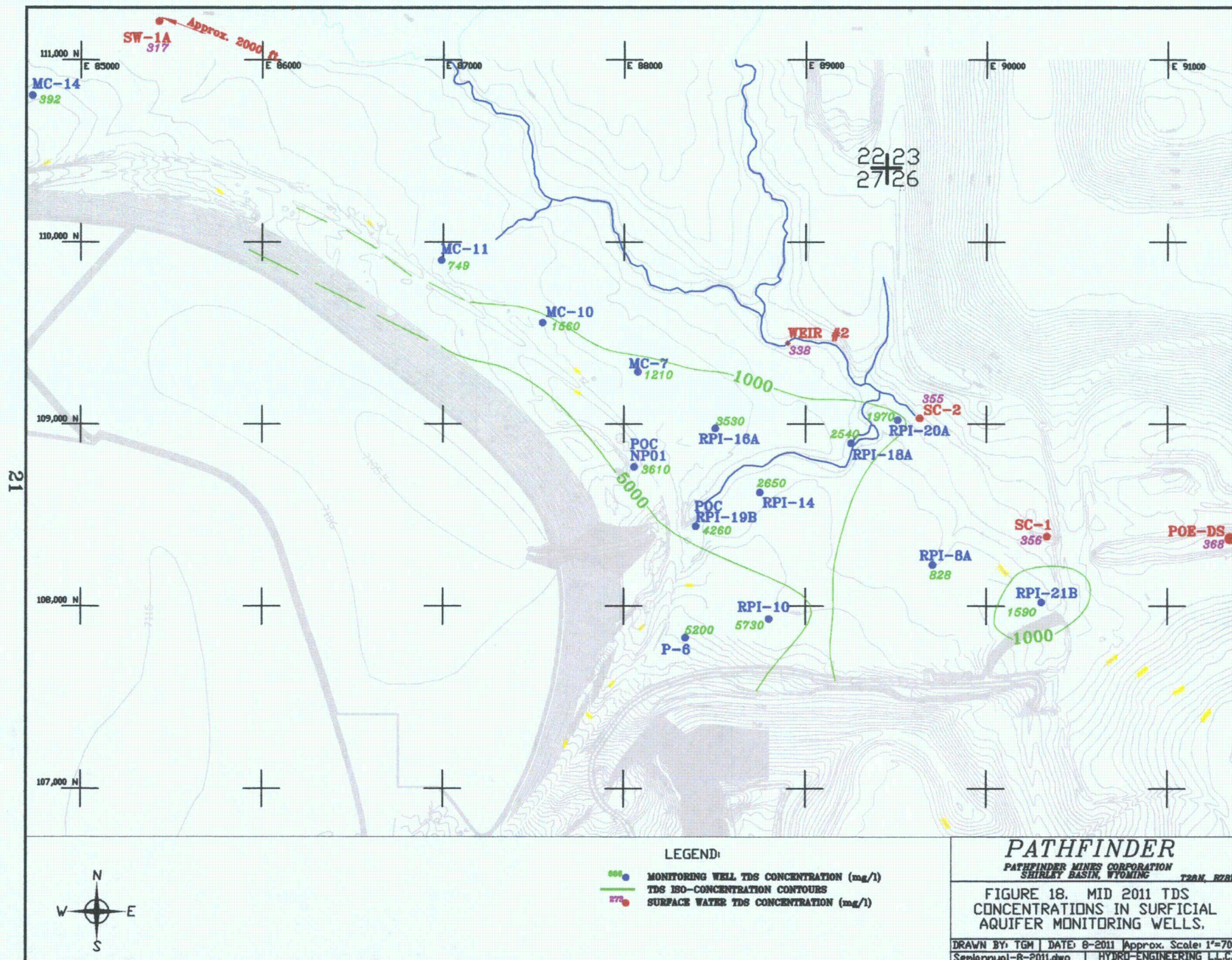


Figure 17. Thorium-230 Activity Versus Time For Surface Water
Sample Locations SW-1A, SC-2, and POE-DS



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**FIGURE 18. MID 2011 TDS
CONCENTRATIONS IN SURFICIAL
AQUIFER MONITORING WELLS.**

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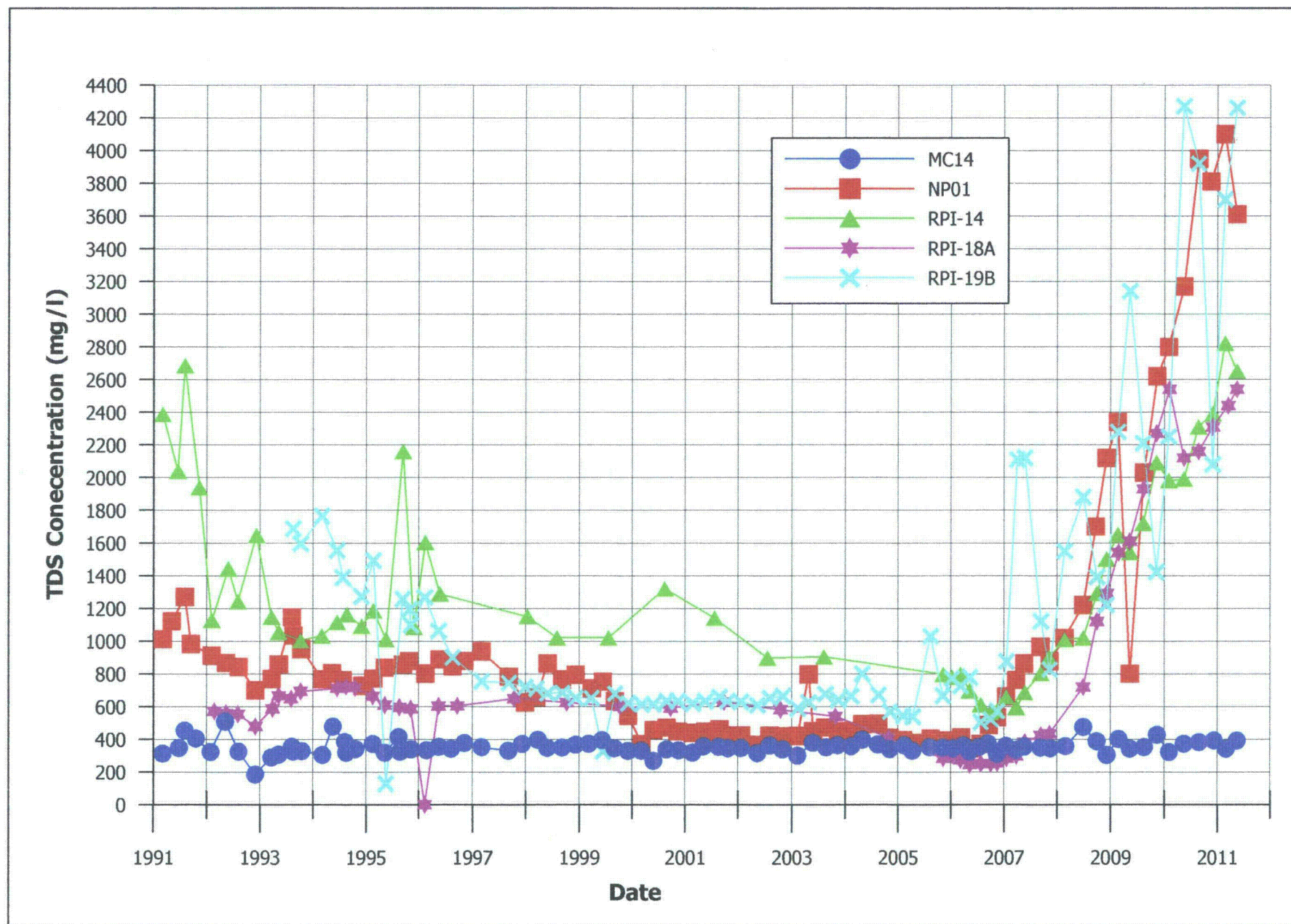


Figure 19. TDS Concentration Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

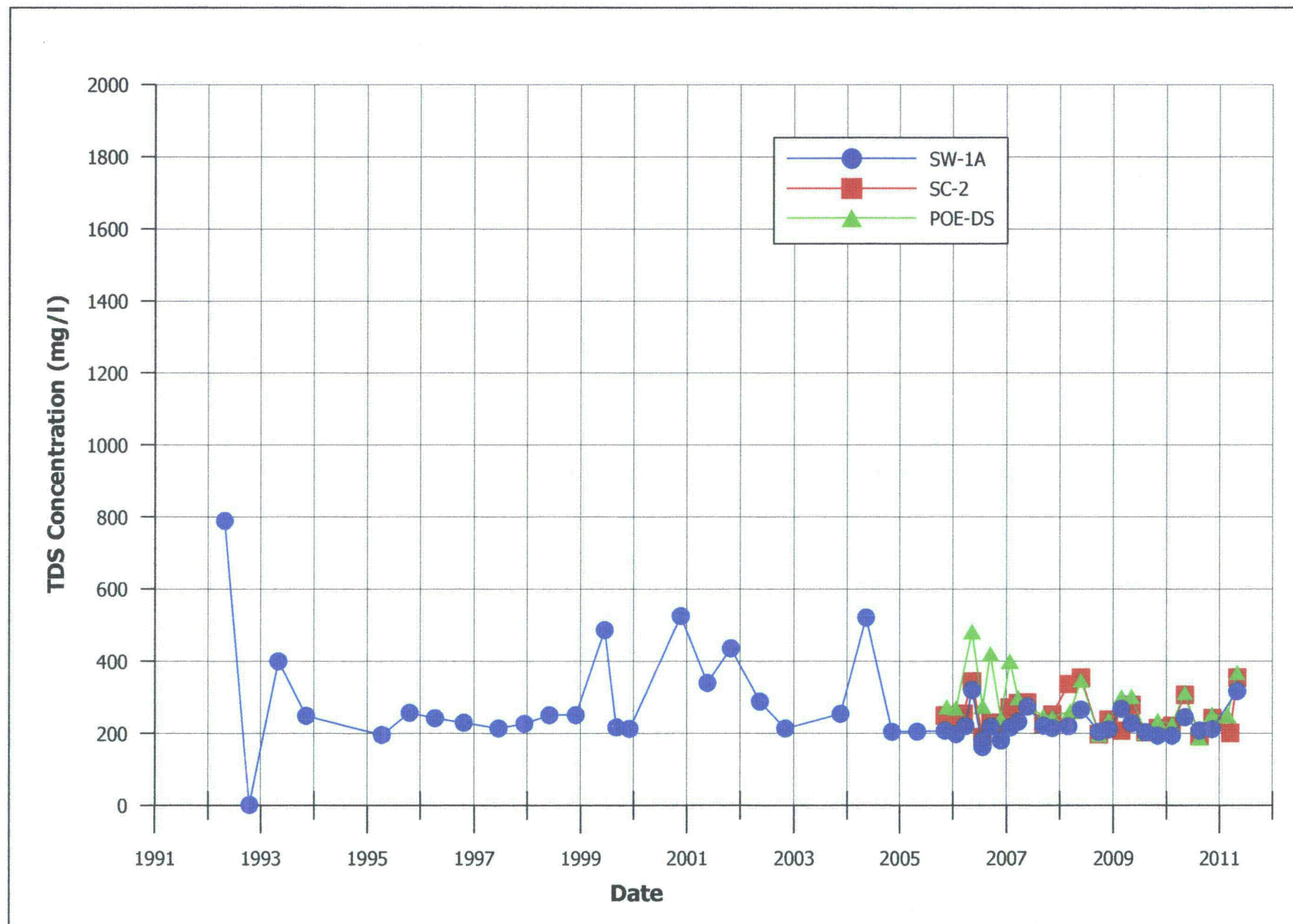
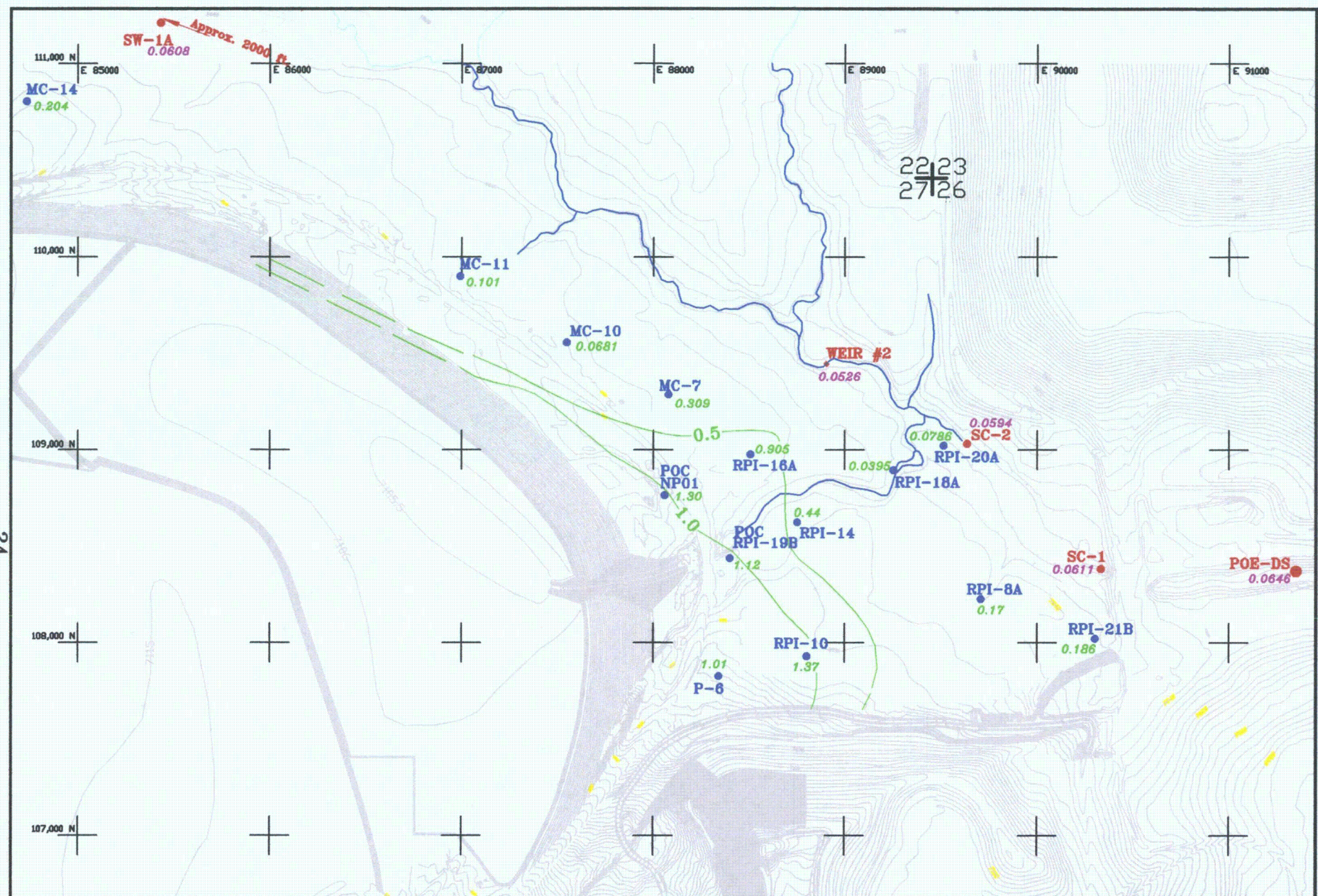


Figure 20. TDS Concentration Versus Time For Surface Water
Sample Locations SW-1A, SC-2, and POE-DS

24



LEGEND:

- 0.0146 ● MONITORING WELL URANIUM CONCENTRATION (mg/l)
- URANIUM ISO-CONCENTRATION CONTOURS
- 0.0232 ● SURFACE WATER URANIUM CONCENTRATION (mg/l)



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FIGURE 21. MID 2011 URANIUM CONCENTRATIONS IN SURFICIAL AQUIFER MONITORING WELLS.

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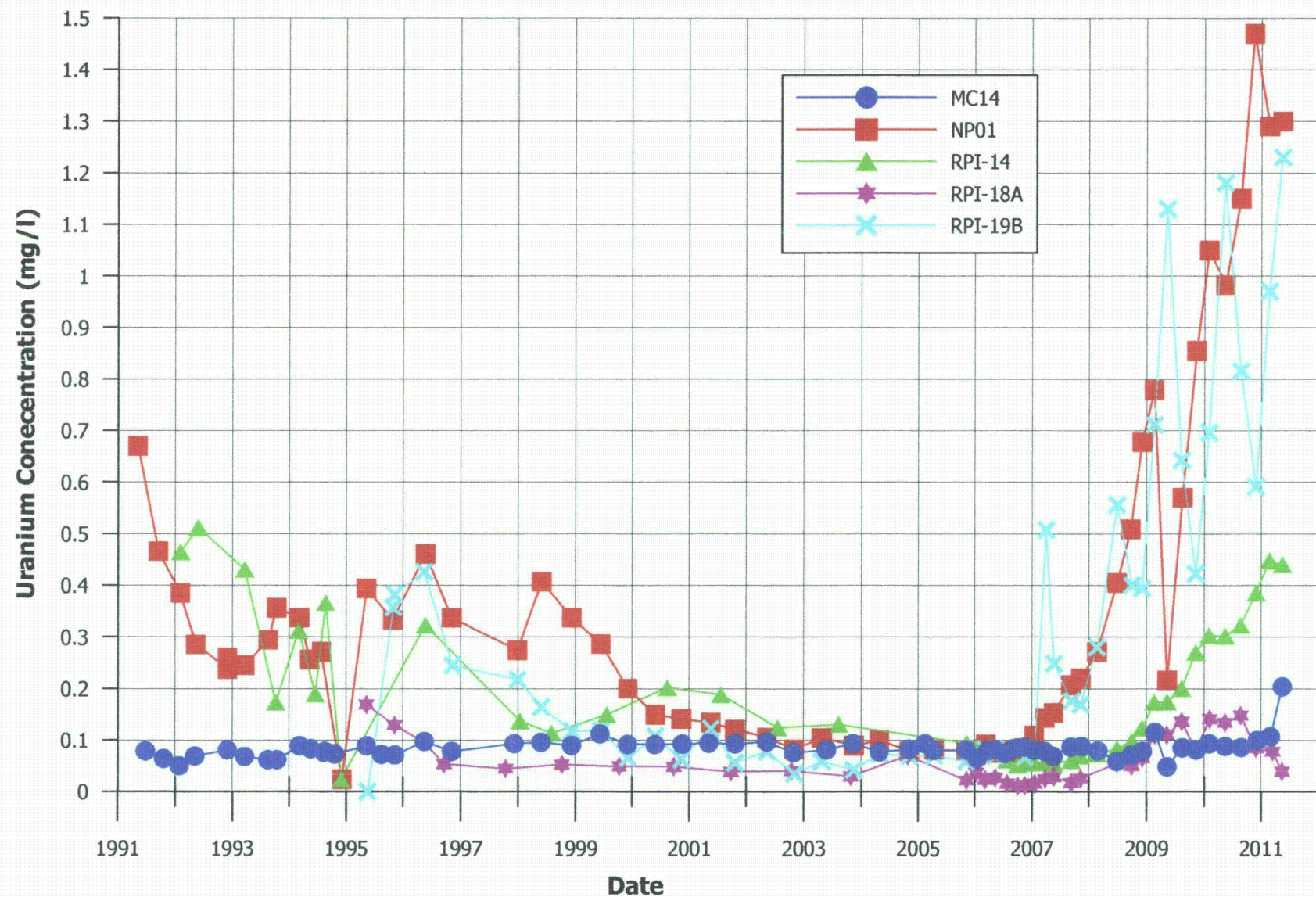


Figure 22. Uranium Concentration Versus Time For Wells MC-14, NP01, RPI-14, RPI-18A and RPI-19B

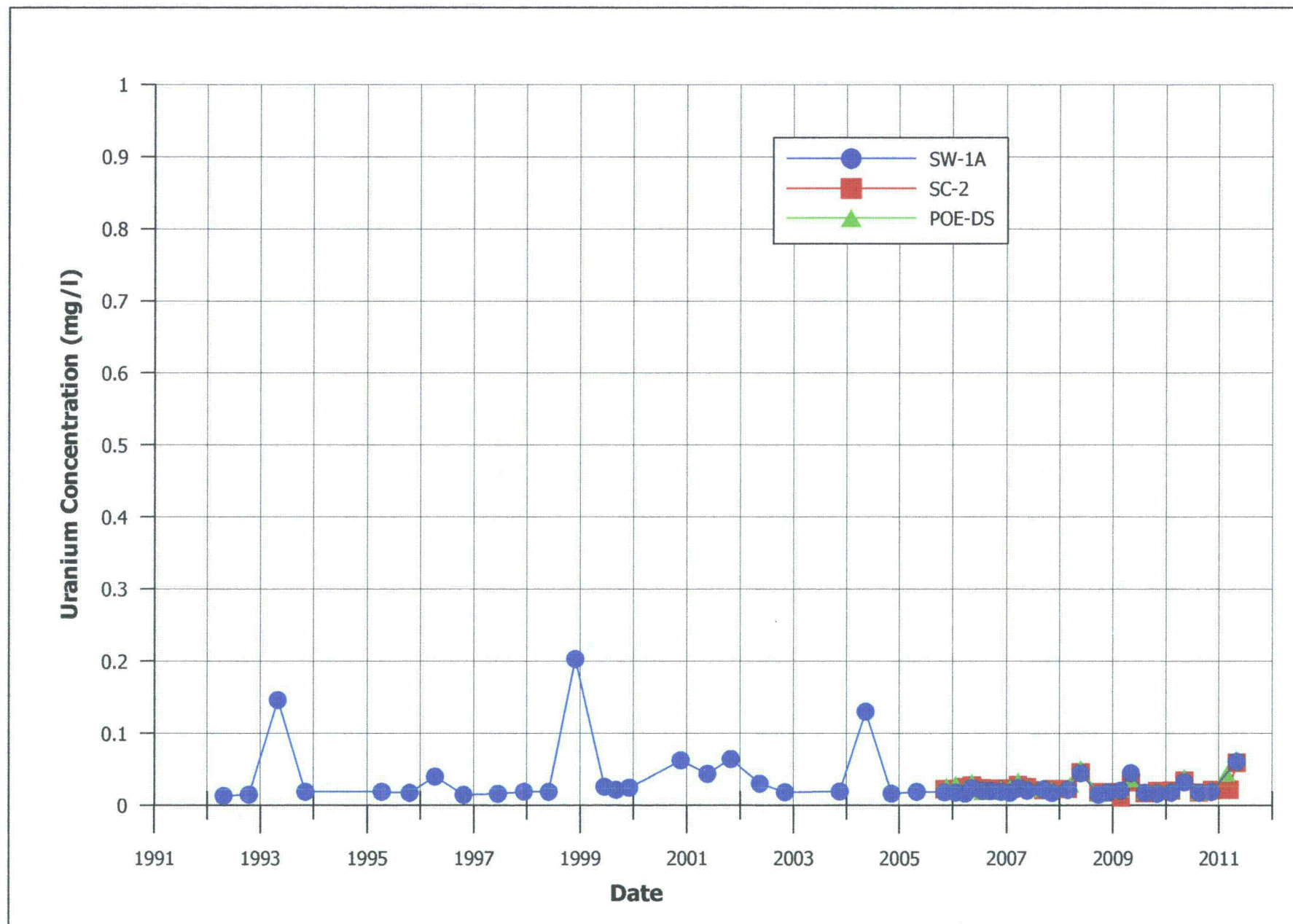


Figure 23. Uranium Concentration Versus Time For Surface Water
Sample Locations SW-1A, SC-2, and POE-DS

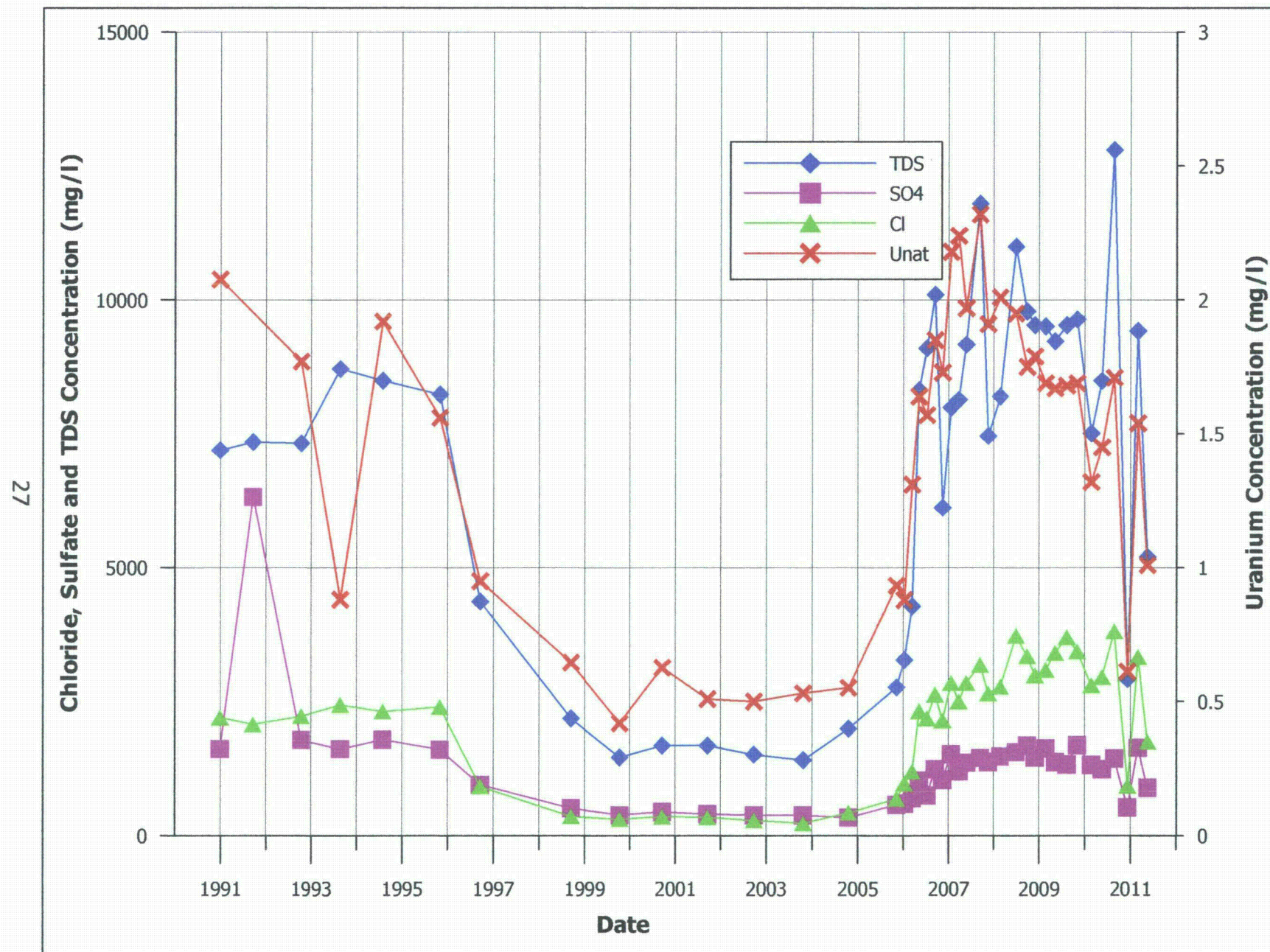


Figure 24. Chloride, Sulfate, TDS and Uranium Concentration Versus Time For Well P-6

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA

Sample Point Name	Date	WL (feet)	WL_ELEV (ft-msl)	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)
MC07	3/1/2008	14.38	7035.23	7.57	1539	1010	373.0	135.0	0.2970	0.002
	6/30/2008	13.70	7035.91	7.25	1215	907	325.0	137.0	0.2600	< 0.001
	9/29/2008	12.48	7037.13	7.17	971	681	28.0	258.0	0.0479	< 0.001
	12/7/2008	12.86	7036.75	7.14	697	554	143.0	63.0	0.1140	0.007
	2/25/2009	13.22	7036.39	7.10	882	578	130.0	64.0	0.1100	0.008
	5/13/2009	13.00	7036.61	7.19	1697	1010	236.0	268.0	0.1250	0.007
	8/17/2009	12.28	7037.33	7.17	1482	947	241.0	162.0	0.1820	0.006
	11/13/2009	12.84	7036.77	7.22	980	636	142.0	75.0	0.1520	0.005
	2/5/2010	13.25	7036.36	6.98	865	520	116.0	70.0	0.1380	0.005
	5/20/2010	12.61	7037.00	7.06	1216	774	165.0	176.0	0.1320	0.004
	8/30/2010	12.26	7037.35	7.32	1431	1060	292.0	231.0	0.2360	0.006
	12/9/2010	12.84	7036.77	7.20	1346	976	103.0	383.0	0.1180	0.010
	3/2/2011	13.28	7036.33	7.37	760	583	137.0	81.0	0.2660	0.006
	5/17/2011	11.38	7038.23	7.28	1356	1210	308.0	287.0	0.3090	0.006
MC10	3/1/2008	15.10	7037.50	7.49	805	432	55.0	67.0	0.0336	0.023
	6/30/2008	13.33	7039.27	7.40	839	496	302.0	141.0	0.0504	0.014
	9/22/2008	13.60	7039.00	7.76	635	468	47.0	145.0	0.0108	0.019
	12/7/2008	14.60	7038.00	7.35	726	500	44.0	178.0	0.0176	0.016
	2/25/2009	15.13	7037.47	7.60	930	519	48.0	159.0	0.0200	0.019
	5/13/2009	13.52	7039.08	7.69	1271	631	31.0	268.0	0.0174	0.015
	8/17/2009	13.91	7038.69	7.30	1479	791	28.0	358.0	0.0118	0.016
	11/13/2009	14.52	7038.08	7.36	1688	932	35.0	427.0	0.0131	0.014
	2/5/2010	15.10	7037.50	7.24	1459	788	35.0	368.0	0.0152	0.015
	5/20/2010	14.00	7038.60	7.14	1792	1060	31.0	509.0	0.0185	0.013
	8/30/2010	13.75	7038.85	7.41	1934	1340	29.0	645.0	0.0179	0.014
	12/9/2010	14.83	7037.77	7.14	1358	1050	40.0	473.0	0.0412	0.008
	3/2/2011	14.95	7037.65	7.57	1483	1250	41.0	586.0	0.0536	0.014
	5/17/2011	12.65	7039.95	7.32	1884	1560	38.0	750.0	0.0681	0.015
MC11	3/1/2008	13.87	7042.64	7.28	1030	666	28.0	252.0	0.0501	0.001
	6/30/2008	12.73	7043.78	7.25	671	441	54.0	103.0	0.0313	0.028
	9/29/2008	13.50	7043.01	7.22	1007	448	26.0	88.0	0.0770	< 0.001
	12/7/2008	13.61	7042.90	6.92	938	665	27.0	266.0	0.0480	< 0.001
	2/25/2009	14.31	7042.20	6.98	1286	726	30.0	268.0	0.0491	< 0.001
	5/13/2009	13.35	7043.16	7.26	1373	694	21.0	282.0	0.0474	< 0.001
	8/17/2009	12.94	7043.57	7.05	1313	720	21.0	274.0	0.0471	< 0.001
	11/13/2009	13.42	7043.09	6.95	1347	763	27.0	284.0	0.0490	< 0.001
	2/5/2010	14.12	7042.39	6.67	1235	672	25.0	280.0	0.0532	< 0.001
	5/20/2010	13.75	7042.76	6.92	1341	800	30.0	325.0	0.0598	0.001
	8/30/2010	12.47	7044.04	7.25	1177	733	25.0	299.0	0.0508	< 0.001

* = Not Enough Water to Sample

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd)

Sample Point Name	Date	WL (feet)	WL_ELEV (ft-msl)	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)
MC11	12/9/2010	13.38	7043.13	7.03	1042	770	47.0	293.0	0.0585	0.002
	3/2/2011	13.95	7042.56	7.44	1010	763	31.0	290.0	0.0708	< 0.001
	5/17/2011	12.48	7044.03	7.24	1084	749	28.0	302.0	0.1010	0.002
MC14	3/1/2008	24.52	7060.19	7.39	513	358	22.0	26.0	0.0796	< 0.001
	6/30/2008	24.51	7060.20	6.93	1038	476	26.0	32.0	0.0590	< 0.001
	9/29/2008	24.78	7059.93	7.42	492	388	23.0	29.0	0.0712	< 0.001
	12/7/2008	24.75	7059.96	7.04	413	304	23.0	19.0	0.0782	< 0.001
	2/25/2009	25.12	7059.59	7.09	597	402	25.0	20.0	0.1150	< 0.001
	5/13/2009	24.85	7059.86	7.43	807	343	18.0	25.0	0.0482	< 0.001
	8/17/2009	24.91	7059.80	7.02	631	352	18.0	22.0	0.0851	< 0.001
	11/13/2009	24.82	7059.89	7.17	639	427	37.0	18.0	0.0811	< 0.001
	2/5/2010	25.14	7059.57	6.93	598	322	25.0	14.0	0.0931	< 0.001
	5/19/2010	25.49	7059.22	7.09	644	373	20.0	28.0	0.0880	< 0.001
	8/30/2010	25.00	7059.71	7.38	612	382	21.0	23.0	0.0860	0.001
	12/9/2010	25.12	7059.59	7.53	580	393	33.0	27.0	0.0996	< 0.001
	3/2/2011	15.62	7069.09	7.65	513	342	25.0	16.0	0.1070	0.001
	5/17/2011	25.02	7059.69	7.33	576	392	28.0	32.0	0.2040	< 0.001
NP01	2/23/2008	13.92	7037.89	7.20	1596	1020	296.0	213.0	0.2710	0.032
	6/29/2008	12.98	7038.83	7.17	2260	1220	410.0	313.0	0.4050	0.027
	9/22/2008	13.10	7038.71	6.94	1777	1700	471.0	418.0	0.5090	0.027
	12/4/2008	13.58	7038.23	6.72	1900	2120	534.0	509.0	0.6780	0.025
	2/18/2009	14.90	7036.91	6.62	2690	2340	583.0	558.0	0.7790	0.022
	5/12/2009	12.35	7039.46	7.09	1372	801	182.0	193.0	0.2160	0.013
	8/17/2009	13.06	7038.75	6.73	2720	2030	474.0	455.0	0.5700	0.014
	11/13/2009	13.58	7038.23	6.67	3700	2620	683.0	677.0	0.8550	0.012
	2/3/2010	13.88	7037.93	6.46	4070	2800	723.0	739.0	1.0500	0.011
	5/19/2010	12.87	7038.94	6.55	3750	3170	735.0	755.0	0.9830	0.012
	8/26/2010	12.98	7038.83	6.77	3790	3950	850.0	865.0	1.1500	0.009
	11/19/2010	13.61	7038.20	6.53	3340	3810	938.0	932.0	1.4700	0.008
	2/24/2011	13.98	7037.83	6.62	3280	4100	1050.0	966.0	1.2900	0.013
	5/16/2011	11.45	7040.36	6.69	3410	3610	1000.0	880.0	1.3000	0.012
P-6	2/23/2008	21.99	7036.21	6.31	10890	8200	1480.0	2780.0	2.0100	0.029
	6/30/2008	16.05	7042.15	6.15	852	11000	1560.0	3730.0	1.9500	< 0.001
	9/30/2008	21.18	7037.02	6.07	8000	9790	1680.0	3350.0	1.7500	0.010
	12/2/2008	21.57	7036.63	6.01	7860	9530	1460.0	2990.0	1.7900	0.016
	2/24/2009	22.24	7035.96	5.84	11560	9510	1630.0	3090.0	1.6900	0.014
	5/12/2009	21.15	7037.05	6.08	13040	9230	1370.0	3410.0	1.6700	0.016
	8/13/2009	21.35	7036.85	6.12	12520	9530	1330.0	3700.0	1.6800	0.010
	11/4/2009	21.81	7036.39	5.92	11770	9640	1690.0	3440.0	1.6900	0.010

* = Not Enough Water to Sample

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd)

Sample Point Name	Date	WL (feet)	WL_ELEV (ft-msl)	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)
P-6	2/24/2010	22.12	7036.08	5.98	8300	7510	1320.0	2800.0	1.3200	< 0.001
	5/19/2010	21.28	7036.92	6.01	7690	8490	1240.0	2960.0	1.4500	0.012
	8/26/2010	21.12	7037.08	6.00	8440	12800	1440.0	3810.0	1.7100	0.010
	12/9/2010	21.83	7036.37	6.48	2980	2920	526.0	924.0	0.6110	0.007
	3/2/2011	21.62	7036.58	5.99	5990	9420	1640.0	3330.0	1.5400	0.013
	5/17/2011	20.59	7037.61	6.39	4310	5200	894.0	1750.0	1.0100	0.010
RPI-8A	2/23/2008	8.08	7031.32	7.23	1007	614	255.0	23.0	0.1520	0.008
	6/29/2008	10.53	7028.87	7.24	1020	630	250.0	23.0	0.1440	0.006
	9/29/2008	10.54	7028.86	7.45	754	685	261.0	35.0	0.1310	0.006
	12/4/2008	10.63	7028.77	7.04	668	694	258.0	49.0	0.1350	0.005
	2/18/2009	10.78	7028.62	7.15	1149	776	279.0	60.0	0.1440	0.006
	5/11/2009	10.38	7029.02	7.40	1038	643	260.0	35.0	0.1550	0.008
	8/12/2009	10.38	7029.02	7.31	1174	766	268.0	75.0	0.1440	0.006
	11/4/2009	10.84	7028.56	6.91	1202	765	286.0	85.0	0.1360	0.006
	2/3/2010	10.70	7028.70	6.85	1275	803	273.0	101.0	0.1670	0.006
	5/17/2010	10.52	7028.88	6.87	1184	839	277.0	102.0	0.1760	0.007
	8/24/2010	10.45	7028.95	7.05	1071	850	289.0	126.0	0.1640	0.007
	11/16/2010	10.54	7028.86	7.19	989	862	281.0	140.0	0.1720	0.006
	2/25/2011	10.75	7028.65	7.34	1105	945	301.0	161.0	0.1640	0.008
	5/5/2011	10.31	7029.09	7.28	990	828	277.0	123.0	0.1700	0.007
RPI-10	2/23/2008	15.61	7033.80	6.51	2630	1570	170.0	589.0	0.3400	0.011
	6/29/2008	14.90	7034.51	6.73	2290	1770	194.0	750.0	0.5280	0.017
	9/29/2008	15.16	7034.25	6.90	2500	2190	252.0	765.0	0.5740	0.022
	12/7/2008	15.38	7034.03	6.67	2660	2550	275.0	938.0	0.7320	0.021
	2/19/2009	14.60	7034.81	6.52	3690	3170	338.0	1190.0	0.8530	0.024
	5/11/2009	15.05	7034.36	6.73	5220	3550	394.0	1380.0	1.0200	0.024
	8/13/2009	15.00	7034.41	6.72	5280	3670	408.0	1460.0	1.0400	0.021
	11/10/2009	15.29	7034.12	6.62	5940	4420	512.0	1660.0	1.1400	0.023
	2/1/2010	15.56	7033.85	6.46	5780	3970	541.0	1680.0	1.3000	0.022
	5/17/2010	15.29	7034.12	6.67	5170	4830	611.0	1820.0	1.2900	0.022
	8/24/2010	15.00	7034.41	6.49	4590	6870	718.0	1850.0	1.3100	0.022
	11/19/2010	15.36	7034.05	6.56	4390	5420	696.0	1930.0	1.5800	0.020
	2/24/2011	15.60	7033.81	6.57	3390	6090	861.0	2070.0	1.3900	0.030
	5/5/2011	15.15	7034.26	6.57	4470	5730	848.0	1980.0	1.3700	0.019
RPI-14	2/23/2008	7.43	7034.47	7.22	1986	1010	294.0	188.0	0.0738	0.002
	6/29/2008	7.17	7034.73	7.25	1936	1020	294.0	233.0	0.0829	0.004
	9/30/2008	7.42	7034.48	7.24	1238	1290	369.0	281.0	0.0979	0.004
	12/4/2008	7.39	7034.51	7.17	1539	1500	409.0	341.0	0.1230	0.003
	2/19/2009	7.46	7034.44	7.02	2100	1650	462.0	374.0	0.1730	0.002

* = Not Enough Water to Sample

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd)

Sample Point Name	Date	WL (feet)	WL_ELEV (ft-msl)	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)
RPI-14	5/12/2009	6.12	7035.78	7.16	2710	1540	436.0	379.0	0.1740	0.003
	8/11/2009	7.34	7034.56	7.25	2730	1720	491.0	437.0	0.2000	0.002
	11/10/2009	7.42	7034.48	6.96	3150	2090	559.0	529.0	0.2700	0.002
	2/3/2010	7.41	7034.49	6.79	3080	1980	600.0	528.0	0.3030	0.002
	5/18/2010	7.12	7034.78	6.87	2710	1990	528.0	483.0	0.3010	0.002
	8/24/2010	7.32	7034.58	7.07	2600	2310	564.0	558.0	0.3220	0.002
	12/1/2010	7.45	7034.45	7.02	2790	2390	597.0	653.0	0.3850	0.002
	2/24/2011	7.50	7034.40	7.05	1830	2820	705.0	743.0	0.4470	0.004
	5/16/2011	6.98	7034.92	7.07	2740	2650	665.0	726.0	0.4400	0.002
RPI-16A	2/23/2008	8.36	7039.24	7.26	1474	646	158.0	152.0	0.0313	0.033
	6/29/2008	10.11	7037.49	7.14	1863	710	132.0	136.0	0.0490	0.025
	9/29/2008	10.70	7036.90	7.42	906	1370	362.0	301.0	0.0927	0.030
	12/4/2008	10.90	7036.70	6.91	1840	1940	502.0	433.0	0.1330	0.022
	2/18/2009	11.18	7036.42	6.76	2690	2340	642.0	516.0	0.2060	0.019
	5/11/2009	10.32	7037.28	6.97	1990	2630	776.0	611.0	0.2950	0.019
	8/14/2009	10.88	7036.72	6.86	4560	3110	961.0	789.0	0.5460	0.016
	11/10/2009	10.92	7036.68	6.67	4490	3380	984.0	784.0	0.6040	0.015
	2/1/2010	11.20	7036.40	6.52	4300	3310	1000.0	781.0	0.7670	0.015
	5/18/2010	10.39	7037.21	6.61	4070	3590	1050.0	825.0	0.8660	0.015
	8/25/2010	10.52	7037.08	6.74	3830	4040	1070.0	848.0	0.8640	0.015
	11/29/2010	10.95	7036.65	6.65	3350	3560	977.0	768.0	0.8860	0.015
	2/25/2011	11.25	7036.35	6.85	3370	3740	1110.0	837.0	0.8500	0.022
	5/16/2011	9.95	7037.65	6.75	3330	3530	1060.0	826.0	0.9050	0.014
RPI-18A	6/29/2008	5.15	7026.70	7.03	1367	720	238.0	96.0	0.0553	< 0.001
	9/30/2008	5.92	7025.93	7.17	1142	1120	566.0	46.0	0.0502	0.001
	12/7/2008	5.18	7026.67	6.77	1233	1290	657.0	66.0	0.0652	0.001
	2/24/2009	5.16	7026.69	6.62	2050	1540	772.0	71.0	0.1100	< 0.001
	5/11/2009	3.86	7027.99	6.98	2400	1610	850.0	124.0	0.1100	0.002
	8/13/2009	6.12	7025.73	6.89	3030	1930	974.0	151.0	0.1360	0.002
	11/11/2009	4.46	7027.39	6.52	2870	2270	1030.0	219.0	0.0796	< 0.001
	2/8/2010	5.22	7026.63	6.41	2840	2540	1300.0	293.0	0.1410	< 0.001
	5/18/2010	3.69	7028.16	6.52	2720	2120	959.0	284.0	0.1340	0.002
	8/26/2010	6.10	7025.75	6.85	2650	2160	956.0	347.0	0.1480	< 0.001
	12/1/2010	4.75	7027.10	6.46	2650	2310	904.0	430.0	0.0847	0.001
	3/17/2011	4.14	7027.71	6.38	2550	2440	880.0	561.0	0.0777	0.003
	5/16/2011	3.52	7028.33	6.45	2790	2540	859.0	653.0	0.0395	0.001
RPI-19B	2/23/2008	10.61	7036.20	6.79	2440	1550	463.0	386.0	0.2800	0.002
	6/29/2008	9.61	7037.20	6.72	3170	1880	590.0	579.0	0.5560	0.008
	9/30/2008	10.32	7036.49	6.82	1557	1390	416.0	262.0	0.4000	0.002

* = Not Enough Water to Sample

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd)

Sample Point Name	Date	WL (feet)	WL_ELEV (ft-msl)	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)
RPI-19B	12/4/2008	10.46	7036.35	6.68	1212	1220	321.0	249.0	0.3940	0.003
	2/19/2009	10.66	7036.15	6.42	2560	2280	570.0	579.0	0.7110	0.004
	5/12/2009	9.38	7037.43	6.56	4420	3140	750.0	831.0	1.1300	0.003
	8/11/2009	10.16	7036.65	6.69	3410	2210	633.0	606.0	0.6420	0.001
	11/10/2009	10.52	7036.29	6.62	2200	1420	407.0	328.0	0.4220	0.004
	2/3/2010	10.66	7036.15	6.32	3360	2250	579.0	663.0	0.6960	0.004
	5/18/2010	9.58	7037.23	6.27	4420	4270	926.0	1240.0	1.1800	0.004
	8/25/2010	10.21	7036.60	6.39	3370	3920	744.0	856.0	0.8160	0.002
	11/29/2010	10.48	7036.33	6.48	2410	2080	496.0	515.0	0.5910	0.005
	2/24/2011	10.70	7036.11	6.54	2990	3700	845.0	994.0	0.9700	0.013
	5/16/2011	15.27	7031.54	6.39	3700	4260	1000.0	1240.0	1.2300	0.003
RPI-20A	3/1/2008	6.99	7024.62	6.85	1593	1050	522.0	45.0	0.0373	0.002
	6/29/2008	* 7.01	7024.60	---	---	---	---	---	---	---
	9/30/2008	7.32	7024.29	6.91	1235	1170	554.0	58.0	0.0302	0.002
	12/2/2008	6.73	7024.88	6.89	1043	1210	577.0	62.0	0.0317	< 0.001
	2/24/2009	6.88	7024.73	6.56	1767	1320	623.0	85.0	0.0562	< 0.001
	5/11/2009	5.72	7025.89	6.86	2240	1540	807.0	102.0	0.0412	0.002
	8/12/2009	7.26	7024.35	6.94	1865	1320	583.0	171.0	0.0310	< 0.001
	11/4/2009	6.81	7024.80	6.49	1712	1280	600.0	109.0	0.0265	< 0.001
	2/1/2010	6.71	7024.90	6.42	2210	1410	621.0	216.0	0.0593	0.001
	5/17/2010	5.14	7026.47	7.06	2420	1780	767.0	305.0	0.0562	0.002
	8/24/2010	7.31	7024.30	6.65	1556	1590	621.0	285.0	0.0454	< 0.001
	11/16/2010	6.81	7024.80	6.74	1359	1510	624.0	254.0	0.0376	< 0.001
	2/24/2011	6.78	7024.83	6.61	1530	2030	761.0	401.0	0.0702	0.002
	5/5/2011	4.98	7026.63	6.71	1813	1970	779.0	402.0	0.0786	0.002
RPI-21B	3/1/2008	11.25	7025.39	7.21	1054	641	270.0	18.0	0.1070	0.009
	6/29/2008	10.89	7025.75	7.31	1059	623	264.0	26.0	0.1000	0.011
	9/29/2008	10.90	7025.74	7.36	763	703	275.0	46.0	0.0880	0.008
	12/2/2008	10.98	7025.66	7.31	763	723	249.0	68.0	0.0745	0.006
	2/18/2009	11.24	7025.40	7.12	1195	778	257.0	95.0	0.0960	0.007
	5/11/2009	10.52	7026.12	7.84	1269	779	283.0	117.0	0.0904	0.016
	8/12/2009	10.69	7025.95	7.36	1470	923	288.0	183.0	0.0938	0.015
	11/4/2009	10.81	7025.83	6.82	1626	1050	319.0	233.0	0.0873	0.011
	2/1/2010	10.96	7025.68	6.81	1634	1090	312.0	279.0	0.1120	0.010
	5/17/2010	10.55	7026.09	6.88	1565	1160	371.0	230.0	0.1400	0.013
	8/24/2010	10.75	7025.89	6.86	1386	1400	373.0	361.0	0.1420	0.011
	11/16/2010	10.62	7026.02	7.04	1372	1450	392.0	386.0	0.1590	0.010
	2/25/2011	11.06	7025.58	7.07	1542	1640	423.0	430.0	0.1720	0.012
	5/5/2011	9.58	7027.06	6.92	1558	1590	434.0	435.0	0.1860	0.011

* = Not Enough Water to Sample

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
MC07	3/1/2008	< 0.200	± 0.1	2.6	± 0.3	2.1	± 0.5	4.7	2.4	± 0.6
	6/30/2008	0.100	± 0.1	1.9	± 0.3	2.0	± 0.8	3.9	4.7	± 0.8
	9/29/2008	< 0.200	---	4.9	± 0.4	1.2	± 0.7	6.1	6.1	± 1.0
	12/7/2008	< 0.200	---	1.1	± 0.2	0.7	± 0.7	1.8	2.8	± 0.6
	2/25/2009	0.100	---	0.4	± 0.2	0.5	± 0.8	0.9	0.6	± 0.4
	5/13/2009	0.030	± 0.1	1.0	± 0.2	0.8	± 0.6	1.8	1.7	± 0.7
	8/17/2009	0.080	---	0.6	± 0.2	2.1	± 0.9	2.7	2.3	± 0.5
	11/13/2009	0.040	± 0.1	0.8	± 0.3	0.9	± 1.1	1.7	0.7	± 0.5
	2/5/2010	0.040	± 0.1	0.5	± 0.2	0.7	± 0.8	1.2	0.7	± 0.4
	5/20/2010	0.000	± 0.1	0.6	± 0.2	0.6	± 1.0	1.2	0.9	± 0.6
	8/30/2010	0.040	± 0.1	0.5	± 0.2	2.3	± 1.0	2.8	2.0	± 0.6
	12/9/2010	0.050	± 0.1	1.4	± 0.2	2.2	± 0.7	3.6	4.7	± 1.1
	3/2/2011	0.300	± 0.1	2.0	± 0.3	0.3	± 0.6	2.3	3.1	± 0.6
	5/17/2011	0.100	± 0.1	1.7	± 0.3	1.1	± 0.6	2.8	2.4	± 0.8
MC10	3/1/2008	0.700	± 1.0	0.4	± 0.2	0.9	± 0.4	1.3	0.3	± 0.4
	6/30/2008	0.200	± 0.1	0.7	± 0.2	< 0.2	± 0.7	< 0.9	1.5	± 0.5
	9/22/2008	0.100	---	0.9	± 0.2	0.1	± 0.7	1.0	1.4	± 0.6
	12/7/2008	< 0.200	---	1.2	± 0.2	0.0	± 0.6	1.2	1.7	± 0.5
	2/25/2009	0.020	---	0.6	± 0.2	0.5	± 0.8	1.1	0.6	± 0.4
	5/13/2009	0.030	± 0.1	0.9	± 0.2	0.5	± 0.5	1.4	1.4	± 0.7
	8/17/2009	-0.010	---	1.4	± 0.3	1.4	± 0.9	2.8	2.4	± 0.5
	11/13/2009	0.003	± 0.1	1.8	± 0.3	2.3	± 1.2	4.1	1.8	± 0.6
	2/5/2010	0.100	± 0.1	1.2	± 0.3	0.6	± 0.9	1.8	1.3	± 0.5
	5/20/2010	0.080	± 0.1	1.1	± 0.3	1.1	± 1.0	2.2	1.7	± 0.7
	8/30/2010	0.200	± 0.1	2.4	± 0.5	1.6	± 1.4	4.0	3.9	± 0.8
	12/9/2010	0.040	± 0.1	3.5	± 0.4	1.9	± 0.6	5.4	8.0	± 1.3
	3/2/2011	0.040	± 0.1	2.9	± 0.4	1.2	± 0.7	4.1	3.3	± 0.6
	5/17/2011	0.100	± 0.1	3.7	± 0.4	2.1	± 0.8	5.8	4.5	± 0.9
MC11	3/1/2008	< 0.200	± 0.2	4.0	± 0.4	1.0	± 0.4	5.0	3.9	± 0.7
	6/30/2008	0.300	± 0.1	3.9	± 0.4	1.4	± 0.8	5.3	5.5	± 0.8
	9/29/2008	0.100	---	3.1	± 0.3	1.0	± 0.7	4.1	4.7	± 0.9
	12/7/2008	< 0.200	---	3.8	± 0.3	0.9	± 0.7	4.7	4.7	± 0.8
	2/25/2009	0.006	---	3.5	± 0.4	1.0	± 0.8	4.5	4.5	± 0.8
	5/13/2009	0.020	± 0.1	3.5	± 0.4	1.1	± 0.6	4.6	4.2	± 1.0
	8/17/2009	-0.030	---	4.6	± 0.4	2.6	± 0.9	7.2	6.0	± 0.8
	11/13/2009	0.008	± 0.1	3.8	± 0.5	2.6	± 1.1	6.4	3.4	± 0.8
	2/5/2010	0.020	± 0.1	3.9	± 0.4	1.6	± 0.8	5.5	4.3	± 0.8
	5/20/2010	0.020	± 0.1	3.3	± 0.5	2.0	± 1.2	5.3	4.1	± 1.0
	8/30/2010	0.001	± 0.1	3.8	± 0.6	3.0	± 1.4	6.8	6.0	± 0.9

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
MC11	12/9/2010	0.060	± 0.1	4.3	± 0.4	1.1	± 0.6	5.4	6.6	± 1.2
	3/2/2011	0.100	± 0.1	4.5	± 0.5	1.1	± 0.7	5.6	5.0	± 0.7
	5/17/2011	0.070	± 0.1	6.2	± 0.5	1.3	± 0.7	7.5	5.6	± 1.0
MC14	3/1/2008	0.500	± 0.6	0.4	± 0.2	0.6	± 0.4	1.0	0.9	± 0.5
	6/30/2008	0.200	± 0.1	1.1	± 0.3	< 0.2	± 0.7	< 1.3	2.4	± 0.6
	9/29/2008	< 0.100	---	2.0	± 0.3	0.2	± 0.7	2.2	4.0	± 0.8
	12/7/2008	0.100	---	1.1	± 0.2	1.1	± 0.7	2.2	2.3	± 0.6
	2/25/2009	0.030	---	1.2	± 0.2	1.2	± 0.8	2.4	1.1	± 0.5
	5/13/2009	0.090	± 0.1	0.6	± 0.2	0.2	± 0.5	0.8	1.2	± 0.7
	8/17/2009	0.030	---	1.7	± 0.3	0.8	± 0.8	2.5	3.1	± 0.6
	11/13/2009	0.009	± 0.1	1.3	± 0.2	2.2	± 0.6	3.5	0.9	± 0.5
	2/5/2010	0.010	± 0.1	0.5	± 0.2	1.1	± 0.7	1.6	1.1	± 0.5
	5/19/2010	0.007	± 0.1	0.7	± 0.2	0.5	± 1.0	1.2	0.7	± 0.6
	8/30/2010	0.008	± 0.1	0.2	± 0.2	1.7	± 1.2	1.9	1.8	± 0.6
	12/9/2010	0.060	± 0.1	0.5	± 0.1	0.6	± 0.6	1.1	0.6	± 0.6
	3/2/2011	0.100	± 0.1	1.7	± 0.3	0.7	± 0.7	2.4	1.6	± 0.4
	5/17/2011	0.010	± 0.1	3.0	± 0.4	0.8	± 0.7	3.8	3.2	± 0.8
NP01	2/23/2008	< 0.200	± 0.1	1.3	± 0.2	2.1	± 0.5	3.4	2.8	± 0.7
	6/29/2008	< 0.200	± 0.1	0.6	± 0.2	0.3	± 0.8	0.9	2.4	± 0.5
	9/22/2008	0.100	---	5.4	± 0.4	1.4	± 0.9	6.8	8.5	± 1.1
	12/4/2008	0.200	± 0.3	1.1	± 0.2	2.0	± 0.7	3.1	2.5	± 0.5
	2/18/2009	0.200	---	2.2	± 0.3	1.7	± 0.8	3.9	2.6	± 0.7
	5/12/2009	< 0.020	± 0.1	1.5	± 0.3	0.8	± 0.5	2.3	1.4	± 0.7
	8/17/2009	0.020	---	3.1	± 0.4	1.9	± 0.9	5.0	5.8	± 0.8
	11/13/2009	0.100	± 0.1	1.3	± 0.2	3.5	± 0.9	4.8	1.7	± 0.6
	2/3/2010	0.300	± 0.2	1.3	± 0.2	2.0	± 0.7	3.3	1.7	± 0.5
	5/19/2010	0.200	± 0.2	1.0	± 0.2	1.7	± 0.9	2.7	1.6	± 0.7
	8/26/2010	0.200	± 0.1	1.3	± 0.2	1.5	± 0.7	2.8	2.1	± 0.6
	11/19/2010	0.200	± 0.1	1.3	± 0.2	1.5	± 0.6	2.8	2.4	± 0.8
	2/24/2011	0.100	± 0.1	1.3	± 0.2	2.0	± 0.6	3.3	1.8	± 0.5
	5/16/2011	0.100	± 0.1	1.3	± 0.2	1.9	± 0.6	3.2	1.3	± 0.6
P-6	2/23/2008	0.200	± 0.2	2.3	± 0.3	2.5	± 0.5	4.8	7.2	± 1.0
	6/30/2008	0.100	± 0.1	1.2	± 0.2	1.7	± 0.8	2.9	4.6	± 0.7
	9/30/2008	< 0.100	---	2.3	± 0.3	1.3	± 0.9	3.6	5.2	± 0.9
	12/2/2008	0.100	± 0.3	2.0	± 0.3	1.0	± 0.7	3.0	6.2	± 0.7
	2/24/2009	0.100	---	2.0	± 0.3	1.6	± 0.8	3.6	2.9	± 0.7
	5/12/2009	0.040	± 0.1	1.9	± 0.3	1.4	± 0.5	3.3	3.0	± 0.8
	8/13/2009	0.050	± 0.1	1.5	± 0.3	1.9	± 0.8	3.4	4.6	± 0.7
	11/4/2009	0.200	± 0.2	1.9	± 0.2	2.3	± 0.7	4.2	2.1	± 0.7

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
P-6	2/24/2010	0.200	± 0.1	4.0	± 0.4	2.2	± 0.7	6.2	5.7	± 0.9
	5/19/2010	0.200	± 0.2	3.4	± 0.4	2.8	± 1.0	6.2	3.3	± 0.9
	8/26/2010	0.040	± 0.1	1.3	± 0.2	1.2	± 0.7	2.5	2.1	± 0.6
	12/9/2010	0.200	± 0.1	2.6	± 0.3	2.6	± 0.6	5.2	6.5	± 1.2
	3/2/2011	1.100	± 0.3	5.3	± 0.4	1.7	± 0.6	7.0	6.5	± 0.8
	5/17/2011	0.600	± 0.2	2.8	± 0.3	2.2	± 0.6	5.0	4.9	± 1.0
RPI-8A	2/23/2008	0.100	± 0.2	1.0	± 0.2	0.4	± 0.4	1.4	1.8	± 0.6
	6/29/2008	< 0.200	± 0.1	< 0.2	± 0.1	0.1	± 0.8	< 0.3	1.3	± 0.4
	9/29/2008	< 0.200	---	0.1	± 0.1	0.1	± 0.7	0.2	0.2	± 0.4
	12/4/2008	0.100	± 0.2	0.1	± 0.1	1.2	± 0.7	1.3	1.4	± 0.4
	2/18/2009	0.100	---	0.2	± 0.1	0.9	± 0.8	1.1	0.9	± 0.5
	5/11/2009	-0.005	± 0.1	0.6	± 0.2	1.0	± 0.7	1.6	3.2	± 0.7
	8/12/2009	0.030	± 0.1	0.5	± 0.2	0.5	± 0.9	1.0	1.8	± 0.4
	11/4/2009	0.060	± 0.1	0.7	± 0.2	0.9	± 0.7	1.6	0.7	± 0.5
	2/3/2010	0.060	± 0.1	0.4	± 0.1	1.4	± 0.8	1.8	0.5	± 0.4
	5/17/2010	0.100	± 0.1	0.5	± 0.2	1.0	± 1.1	1.5	0.8	± 0.6
	8/24/2010	0.100	± 0.1	0.4	± 0.2	1.5	± 0.8	1.9	0.7	± 0.4
	11/16/2010	-0.010	± 0.0	0.6	± 0.2	1.0	± 0.7	1.6	1.3	± 0.7
	2/25/2011	0.050	± 0.1	0.1	± 0.1	0.6	± 0.6	0.7	0.3	± 0.3
	5/5/2011	0.010	± 0.1	0.3	± 0.2	0.9	± 0.7	1.2	0.4	± 0.6
RPI-10	2/23/2008	0.100	± 0.2	2.2	± 0.3	2.2	± 0.5	4.4	4.4	± 0.8
	6/29/2008	0.100	± 0.1	0.9	± 0.3	1.1	± 0.8	2.0	4.1	± 0.7
	9/29/2008	< 0.200	---	0.6	± 0.2	2.2	± 0.8	2.8	1.2	± 0.5
	12/7/2008	0.300	---	1.2	± 0.2	2.9	± 0.8	4.1	4.6	± 0.8
	2/19/2009	-0.010	---	1.1	± 0.2	3.1	± 0.9	4.2	1.3	± 0.5
	5/11/2009	0.060	± 0.1	2.4	± 0.3	2.4	± 0.7	4.8	6.8	± 1.0
	8/13/2009	0.020	± 0.1	2.3	± 0.4	3.6	± 1.0	5.9	3.4	± 0.6
	11/10/2009	0.100	± 0.1	1.0	± 0.2	3.9	± 1.0	4.9	1.1	± 0.5
	2/1/2010	0.200	± 0.2	1.1	± 0.2	2.0	± 0.8	3.1	1.2	± 0.5
	5/17/2010	0.030	± 0.1	1.1	± 0.3	3.6	± 1.2	4.7	2.6	± 0.8
	8/24/2010	0.040	± 0.1	1.1	± 0.2	2.3	± 0.8	3.4	2.7	± 0.6
	11/19/2010	0.060	± 0.1	3.0	± 0.3	2.8	± 0.7	5.8	4.9	± 1.1
	2/24/2011	0.060	± 0.1	2.3	± 0.3	2.0	± 0.7	4.3	2.8	± 0.6
	5/5/2011	0.300	± 0.1	1.1	± 0.3	2.9	± 0.8	4.0	2.3	± 0.8
RPI-14	2/23/2008	< 0.200	± 0.2	1.9	± 0.3	1.5	± 0.4	3.4	4.4	± 0.8
	6/29/2008	< 0.200	± 0.1	0.3	± 0.2	0.3	± 0.8	0.6	1.9	± 0.5
	9/30/2008	< 0.200	---	0.2	± 0.1	1.2	± 0.8	1.4	0.7	± 0.4
	12/4/2008	0.100	± 0.3	1.1	± 0.2	2.2	± 0.7	3.3	2.7	± 0.5
	2/19/2009	0.080	---	0.9	± 0.2	1.4	± 0.8	2.3	1.3	± 0.5

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
RPI-14	5/12/2009	0.030	± 0.1	0.4	± 0.2	0.6	± 0.6	1.0	1.0	± 0.6
	8/11/2009	0.040	± 0.1	1.5	± 0.3	2.1	± 1.0	3.6	2.7	± 0.5
	11/10/2009	0.020	± 0.1	0.4	± 0.2	1.5	± 0.8	1.9	0.0	± 0.3
	2/3/2010	0.007	± 0.1	0.4	± 0.1	1.7	± 0.7	2.1	0.6	± 0.4
	5/18/2010	0.040	± 0.1	0.2	± 0.2	1.1	± 1.1	1.3	0.8	± 0.6
	8/24/2010	0.040	± 0.1	0.5	± 0.2	1.3	± 0.7	1.8	0.9	± 0.4
	12/1/2010	0.090	± 0.1	0.3	± 0.1	1.4	± 0.7	1.7	4.3	± 1.0
	2/24/2011	0.100	± 0.1	0.7	± 0.2	1.5	± 0.7	2.2	1.0	± 0.4
	5/16/2011	0.050	± 0.1	0.4	± 0.2	1.1	± 0.6	1.5	0.5	± 0.5
RPI-16A	2/23/2008	< 0.200	± 0.1	0.5	± 0.2	2.0	± 0.5	2.5	1.4	± 0.6
	6/29/2008	0.200	± 0.1	0.9	± 0.3	0.5	± 0.8	1.4	2.5	± 0.5
	9/29/2008	< 0.200	—	0.6	± 0.2	1.0	± 0.8	1.6	1.1	± 0.5
	12/4/2008	0.200	± 0.4	0.6	± 0.2	1.5	± 0.7	2.1	1.8	± 0.4
	2/18/2009	0.300	—	1.2	± 0.2	0.3	± 0.7	1.5	1.8	± 0.6
	5/11/2009	0.040	± 0.1	0.6	± 0.2	1.1	± 0.6	1.7	2.7	± 0.7
	8/14/2009	0.050	± 0.1	3.4	± 0.5	0.9	± 0.9	4.3	6.8	± 0.8
	11/10/2009	0.100	± 0.1	2.6	± 0.3	1.5	± 0.8	4.1	2.4	± 0.7
	2/1/2010	0.080	± 0.2	0.4	± 0.1	1.2	± 0.7	1.6	0.3	± 0.4
	5/18/2010	0.080	± 0.2	0.6	± 0.2	-0.2	± 0.6	0.4	0.5	± 0.5
	8/25/2010	0.020	± 0.1	0.6	± 0.2	0.8	± 0.7	1.4	0.9	± 0.4
	11/29/2010	0.040	± 0.1	0.6	± 0.2	0.7	± 0.6	1.3	2.1	± 0.8
	2/25/2011	0.300	± 0.2	0.8	± 0.2	0.7	± 0.6	1.5	1.1	± 0.4
	5/16/2011	0.070	± 0.1	1.1	± 0.2	1.4	± 0.6	2.5	0.8	± 0.6
RPI-18A	6/29/2008	0.100	± 0.1	0.3	± 0.2	0.1	± 0.8	0.4	0.9	± 0.3
	9/30/2008	0.100	—	0.2	± 0.1	0.2	± 0.7	0.4	0.8	± 0.4
	12/7/2008	0.100	—	0.9	± 0.2	0.9	± 0.7	1.8	2.1	± 0.5
	2/24/2009	0.090	—	0.6	± 0.2	0.6	± 0.8	1.2	1.0	± 0.5
	5/11/2009	0.003	± 0.1	0.4	± 0.2	1.7	± 0.6	2.1	2.0	± 0.6
	8/13/2009	0.020	± 0.1	3.9	± 0.5	0.6	± 0.9	4.5	4.6	± 0.7
	11/11/2009	-0.020	± 0.0	0.6	± 0.2	1.1	± 0.8	1.7	0.3	± 0.4
	2/8/2010	-0.002	± 0.1	0.5	± 0.2	0.6	± 0.6	1.1	1.4	± 0.5
	5/18/2010	0.020	± 0.1	0.4	± 0.1	-0.1	± 0.6	0.3	1.0	± 0.6
	8/26/2010	0.100	± 0.1	0.8	± 0.2	0.8	± 0.7	1.6	1.3	± 0.5
	12/1/2010	0.070	± 0.1	0.4	± 0.2	0.7	± 0.6	1.1	3.1	± 0.9
	3/17/2011	0.300	± 0.1	1.4	± 0.2	1.9	± 0.9	3.3	5.7	± 1.0
	5/16/2011	0.040	± 0.1	0.4	± 0.2	0.5	± 0.5	0.9	0.2	± 0.5
RPI-19B	2/23/2008	0.100	± 0.2	1.7	± 0.2	1.1	± 0.4	2.8	4.0	± 0.8
	6/29/2008	< 0.200	± 0.1	0.1	± 0.2	< 0.3	± 0.8	< 0.4	2.9	± 0.6
	9/30/2008	0.300	—	0.5	± 0.2	0.5	± 0.7	1.0	1.0	± 0.5

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
RPI-19B	12/4/2008	0.100	± 0.3	0.4	± 0.2	0.6	± 0.6	1.0	1.6	± 0.4
	2/19/2009	0.100	---	1.1	± 0.2	0.2	± 0.8	1.3	1.9	± 0.6
	5/12/2009	0.070	± 0.1	1.4	± 0.3	0.7	± 0.6	2.1	2.3	± 0.8
	8/11/2009	0.080	± 0.1	10.0	± 0.8	1.3	± 0.9	11.3	11.8	± 1.1
	11/10/2009	0.020	± 0.1	0.4	± 0.2	1.3	± 0.8	1.7	0.3	± 0.4
	2/3/2010	-0.060	± 0.1	0.5	± 0.2	0.2	± 0.7	0.7	0.6	± 0.4
	5/18/2010	0.200	± 0.1	1.1	± 0.2	0.6	± 0.6	1.7	1.2	± 0.6
	8/25/2010	0.050	± 0.1	0.7	± 0.2	0.6	± 0.7	1.3	1.4	± 0.5
	11/29/2010	0.010	± 0.1	1.2	± 0.2	1.5	± 0.7	2.7	4.6	± 1.0
	2/24/2011	0.300	± 0.2	1.5	± 0.2	0.4	± 0.6	1.9	1.3	± 0.4
	5/16/2011	0.030	± 0.1	0.4	± 0.2	1.0	± 0.6	1.4	1.2	± 0.6
RPI-20A	3/1/2008	0.100	± 0.1	1.1	± 0.2	0.9	± 0.4	2.0	1.0	± 0.5
	9/30/2008	0.100	---	0.4	± 0.2	0.5	± 0.7	0.9	0.9	± 0.4
	12/2/2008	< 0.200	± 0.2	0.2	± 0.1	0.4	± 0.7	0.6	1.2	± 0.4
	2/24/2009	-0.010	---	1.0	± 0.2	0.4	± 0.7	1.4	1.0	± 0.5
	5/11/2009	0.030	± 0.1	0.8	± 0.2	1.7	± 0.7	2.5	2.6	± 0.7
	8/12/2009	-0.030	± 0.1	0.4	± 0.2	0.8	± 0.9	1.2	1.2	± 0.4
	11/4/2009	0.040	± 0.1	0.6	± 0.2	1.2	± 0.7	1.8	0.9	± 0.6
	2/1/2010	0.020	± 0.1	0.7	± 0.2	0.9	± 0.7	1.6	1.1	± 0.5
	5/17/2010	0.060	± 0.1	0.8	± 0.2	0.4	± 0.7	1.2	1.1	± 0.6
	8/24/2010	0.070	± 0.1	0.7	± 0.2	1.2	± 0.7	1.9	1.0	± 0.4
	11/16/2010	0.002	± 0.1	0.7	± 0.2	1.1	± 0.7	1.8	1.3	± 0.7
	2/24/2011	0.050	± 0.1	0.9	± 0.2	1.4	± 0.7	2.3	0.4	± 0.3
RPI-21B	5/5/2011	0.020	± 0.1	0.3	± 0.2	2.1	± 0.8	2.4	0.9	± 0.6
	3/1/2008	0.100	± 0.1	0.9	± 0.2	1.8	± 0.5	2.7	0.6	± 0.4
	6/29/2008	< 0.200	± 0.1	0.2	± 0.2	0.7	± 0.8	0.9	1.8	± 0.5
	9/29/2008	0.100	---	0.7	± 0.2	0.7	± 0.7	1.4	0.8	± 0.4
	12/2/2008	0.100	± 0.2	0.6	± 0.2	0.9	± 0.7	1.5	1.7	± 0.4
	2/18/2009	0.100	---	1.5	± 0.3	1.6	± 0.8	3.1	1.3	± 0.5
	5/11/2009	0.010	± 0.1	1.1	± 0.2	1.7	± 0.7	2.8	3.6	± 0.7
	8/12/2009	0.005	± 0.1	1.2	± 0.3	2.4	± 1.0	3.6	2.1	± 0.5
	11/4/2009	0.050	± 0.1	2.0	± 0.3	2.6	± 1.1	4.6	1.8	± 0.7
	2/1/2010	0.020	± 0.1	1.3	± 0.2	1.7	± 0.8	3.0	1.6	± 0.5
	5/17/2010	0.001	± 0.1	1.8	± 0.3	1.8	± 0.9	3.6	1.9	± 0.7
	8/24/2010	0.090	± 0.1	1.0	± 0.2	2.2	± 0.8	3.2	2.6	± 0.6
	11/16/2010	0.050	± 0.1	2.7	± 0.3	2.5	± 0.8	5.2	3.2	± 0.9
	2/25/2011	0.040	± 0.1	1.1	± 0.2	2.4	± 0.7	3.5	1.5	± 0.4
	5/5/2011	-0.010	± 0.1	1.4	± 0.3	3.9	± 0.9	5.3	1.5	± 0.7

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	NO3+NO2 (mg/l)
MC07	3/1/2008	0.005	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.5
	6/30/2008	0.006	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	9/29/2008	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	12/7/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.0
	2/25/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	3.2
	5/13/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.3
	8/17/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.5
	11/13/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.1
	2/5/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.1
	5/20/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.6
	8/30/2010	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.1
	12/9/2010	0.002	0.3	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.4
	3/2/2011	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.4
	5/17/2011	0.002	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.9
MC10	3/1/2008	0.006	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.9
	6/30/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.5
	9/22/2008	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.8
	12/7/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	2/25/2009	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.8
	5/13/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.7
	8/17/2009	0.002	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	11/13/2009	0.003	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.9
	2/5/2010	0.003	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.8
	5/20/2010	0.002	0.3	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.8
	8/30/2010	0.001	0.5	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.8
	12/9/2010	0.003	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.5
	3/2/2011	0.002	0.4	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.8
	5/17/2011	< 0.001	0.7	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.9
MC11	3/1/2008	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	6/30/2008	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	9/29/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	12/7/2008	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/25/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	5/13/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	8/17/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	11/13/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/5/2010	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/20/2010	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	8/30/2010	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	NO3+NO2 (mg/l)
MC11	12/9/2010	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	3/2/2011	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/17/2011	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
MC14	3/1/2008	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	6/30/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	9/29/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	12/7/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/25/2009	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.1
	5/13/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.1
	8/17/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	11/13/2009	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	2/5/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/19/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	8/30/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	12/9/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	3/2/2011	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	5/17/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.1
NP01	2/23/2008	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.1
	6/29/2008	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.6
	9/22/2008	0.004	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	3.9
	12/4/2008	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.4
	2/18/2009	0.003	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	4.3
	5/12/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.7
	8/17/2009	0.005	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.4
	11/13/2009	0.003	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	6.5
	2/3/2010	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	6.3
	5/19/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	7.1
	8/26/2010	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	7.9
	11/19/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	9.2
	2/24/2011	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	9.5
	5/16/2011	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	8.0
P-6	2/23/2008	0.007	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.8
	6/30/2008	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.4
	9/30/2008	0.007	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.6
	12/2/2008	0.006	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.7
	2/24/2009	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	4.2
	5/12/2009	0.007	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.8
	8/13/2009	0.006	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.3
	11/4/2009	0.007	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.7

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	NO3+NO2 (mg/l)
P-6	2/24/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	3.2
	5/19/2010	0.005	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.7
	8/26/2010	0.006	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.8
	12/9/2010	0.003	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.4
	3/2/2011	0.007	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.8
	5/17/2011	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.5
RPI-8A	2/23/2008	0.009	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.9
	6/29/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.0
	9/29/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.1
	12/4/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.2
	2/18/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	1.4
	5/11/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	1.6
	8/12/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.8
	11/4/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.7
	2/3/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.9
	5/17/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.9
	8/24/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.5
	11/16/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.7
	2/25/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.6
	5/5/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	1.9
RPI-10	2/23/2008	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.1
	6/29/2008	0.007	0.3	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.1
	9/29/2008	< 0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.2
	12/7/2008	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.2
	2/19/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.5
	5/11/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.5
	8/13/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.9
	11/10/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.7
	2/1/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.7
	5/17/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.5
	8/24/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.5
	11/19/2010	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.4
	2/24/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.6
	5/5/2011	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.5
RPI-14	2/23/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.6
	6/29/2008	0.002	< 0.1	< 0.01	< 0.01	0.16	< 0.1	0.08	< 0.050	0.5
	9/30/2008	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.5
	12/4/2008	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.5
	2/19/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.4

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	NO3+NO2 (mg/l)
RPI-14	5/12/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.4
	8/11/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.4
	11/10/2009	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.4
	2/3/2010	< 0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.3
	5/18/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.4
	8/24/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.3
	12/1/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.4
	2/24/2011	< 0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.4
	5/16/2011	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.3
RPI-16A	2/23/2008	0.005	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.5
	6/29/2008	0.004	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	2.4
	9/29/2008	0.006	0.2	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	3.1
	12/4/2008	0.004	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.0
	2/18/2009	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	4.1
	5/11/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	4.3
	8/14/2009	0.011	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.7
	11/10/2009	0.008	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.4
	2/1/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.3
	5/18/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.4
	8/25/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.5
	11/29/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.7
	2/25/2011	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	4.7
	5/16/2011	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	4.3
RPI-18A	6/29/2008	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	9/30/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	12/7/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/24/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	5/11/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	8/13/2009	0.010	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	11/11/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/8/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/18/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	8/26/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	12/1/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	3/17/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/16/2011	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
RPI-19B	2/23/2008	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	6/29/2008	0.006	0.5	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	9/30/2008	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1

TABLE 2. MONITOR WELL WATER-LEVEL AND WATER-QUALITY DATA (cont'd.)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Ni (mg/l)	Pb (mg/l)	NO3+NO2 (mg/l)
RPI-19B	12/4/2008	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	2/19/2009	0.001	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.5
	5/12/2009	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	8/11/2009	0.010	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	11/10/2009	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	2/3/2010	0.001	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	5/18/2010	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	8/25/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	11/29/2010	0.004	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	2/24/2011	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.3
	5/16/2011	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
RPI-20A	3/1/2008	0.014	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.2
	9/30/2008	0.017	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	12/2/2008	0.014	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/24/2009	0.013	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.1
	5/11/2009	0.010	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	< 0.1
	8/12/2009	0.015	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.1
	11/4/2009	0.013	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/1/2010	0.011	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/17/2010	0.009	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	8/24/2010	0.014	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	11/16/2010	0.013	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	2/24/2011	0.009	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	< 0.1
	5/5/2011	0.009	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	0.1
RPI-21B	3/1/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	6/29/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	9/29/2008	0.005	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	12/2/2008	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.7
	2/18/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	0.001	0.8
	5/11/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	1.2
	8/12/2009	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.4
	11/4/2009	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	0.9
	2/1/2010	0.003	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.5
	5/17/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.7
	8/24/2010	0.002	< 0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.4
	11/16/2010	0.005	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.5
	2/25/2011	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.050	1.7
	5/5/2011	0.002	0.1	< 0.01	< 0.01	< 0.05	< 0.1	< 0.05	< 0.001	2.1

TABLE 3. SURFACE WATER MONITORING DATA

Sample Point Name	Date	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)	NO3+NO2 (mg/l)
POE-DS	3/15/2008	8.40	366	261	26	13.0	0.0284	< 0.001	< 0.1
	5/26/2008	7.52	530	348	71	28.0	0.0520	< 0.001	< 0.1
	9/26/2008	7.67	196	197	19	4.0	0.0160	< 0.001	< 0.1
	12/2/2008	7.51	185	237	18	7.0	0.0193	< 0.001	0.1
	2/27/2009	7.24	400	300	24	9.0	0.0216	< 0.001	0.5
	5/7/2009	7.84	506	302	41	22.0	0.0354	0.001	< 0.1
	8/11/2009	7.92	300	201	13	4.0	0.0180	< 0.001	0.0
	11/3/2009	6.99	378	235	21	10.0	0.0200	< 0.001	0.2
	2/11/2010	6.94	387	226	18	8.0	0.0210	< 0.001	0.4
	5/10/2010	7.54	468	313	38	22.0	0.0397	< 0.001	< 0.1
	8/19/2010	7.41	277	188	13	4.0	0.0176	< 0.001	< 0.1
	11/11/2010	7.67	365	252	17	7.0	0.0230	< 0.001	0.3
	2/25/2011	7.27	383	249	22	13.0	0.0438	0.002	0.5
	5/4/2011	7.78	468	368	60	27.0	0.0646	0.001	< 0.1
SC1	3/1/2008	8.10	392	316	21	11.0	0.0231	< 0.001	0.5
	5/26/2008	7.93	476	360	67	26.0	0.0499	0.001	< 0.1
	9/26/2008	7.80	208	200	20	5.0	0.0183	< 0.001	< 0.1
	12/2/2008	7.56	181	234	16	8.0	0.0208	< 0.001	0.4
	2/26/2009	7.20	372	253	24	9.0	0.0217	0.001	0.5
	5/7/2009	8.06	490	281	38	21.0	0.0330	0.002	< 0.1
	8/11/2009	8.12	314	205	12	4.0	0.0174	< 0.001	0.0
	11/3/2009	7.26	387	228	21	8.0	0.0197	< 0.001	0.2
	2/9/2010	6.88	215	226	18	8.0	0.0226	< 0.001	0.4
	5/10/2010	7.61	463	316	35	21.0	0.0376	< 0.001	< 0.1
	8/19/2010	7.72	283	201	13	4.0	0.0187	< 0.001	< 0.1
	11/15/2010	7.51	325	248	15	7.0	0.0216	< 0.001	0.4
	3/17/2011	7.61	390	214	26	20.0	0.0266	< 0.001	0.6
	5/4/2011	7.89	509	356	64	27.0	0.0611	0.001	< 0.1
SC2	3/1/2008	8.25	347	337	23	11.0	0.0230	0.001	0.5
	5/26/2008	7.32	557	355	59	25.0	0.0463	0.001	< 0.1
	9/26/2008	7.78	209	198	6	5.0	0.0185	< 0.001	< 0.1
	12/2/2008	7.54	182	238	17	8.0	0.0185	< 0.001	0.4
	2/26/2009	6.82	195	207	26	2.0	0.0111	< 0.001	0.5
	5/7/2009	8.04	479	279	38	20.0	0.0325	0.001	< 0.1
	8/11/2009	8.02	309	203	11	4.0	0.0171	< 0.001	0.0
	11/3/2009	7.21	383	215	19	9.0	0.0202	< 0.001	< 0.1
	2/9/2010	6.90	297	221	17	8.0	0.0208	< 0.001	0.5
	5/10/2010	7.59	453	307	33	21.0	0.0349	< 0.001	< 0.1
	8/19/2010	7.63	283	193	12	4.0	0.0182	< 0.001	< 0.1

TABLE 3. SURFACE WATER MONITORING DATA (cont'd)

Sample Point Name	Date	pH(f) (std. units)	Cond(f) (µmhos)	TDS (mg/l)	SO4 (mg/l)	Cl (mg/l)	Unat (mg/l)	Se (mg/l)	NO3+NO2 (mg/l)
SC2	11/15/2010	7.52	344	243	15	7.0	0.0218	< 0.001	0.4
	3/17/2011	7.41	469	201	23	17.0	0.0224	0.002	0.6
	5/4/2011	7.84	476	355	61	27.0	0.0594	0.001	< 0.1
SW-1A	3/1/2008	8.08	370	220	22	2.0	0.0218	< 0.001	0.6
	5/26/2008	7.64	440	266	46	10.0	0.0446	0.001	< 0.1
	9/26/2008	7.55	192	204	16	1.0	0.0150	< 0.001	0.3
	12/2/2008	7.63	157	211	13	2.0	0.0181	< 0.001	0.5
	2/26/2009	7.66	302	268	16	1.0	0.0204	0.001	0.6
	5/7/2009	8.19	386	228	29	7.0	0.0448	0.002	0.3
	8/11/2009	7.80	324	203	10	2.0	0.0175	< 0.001	0.3
	11/3/2009	7.08	323	194	13	2.0	0.0163	< 0.001	0.2
	2/10/2010	7.03	319	194	12	2.0	0.0179	< 0.001	0.5
	5/10/2010	7.03	372	245	27	7.0	0.0321	< 0.001	0.4
	8/19/2010	7.54	284	208	12	2.0	0.0178	< 0.001	0.2
	11/11/2010	7.64	344	212	11	2.0	0.0190	< 0.001	0.6
	5/3/2011	7.82	437	317	60	16.0	0.0608	0.002	0.3
Weir 2	3/1/2008	8.15	397	220	18	2.0	0.0194	0.001	0.6
	5/26/2008	7.55	511	323	49	23.0	0.0416	0.001	< 0.1
	9/26/2008	7.84	211	204	17	6.0	0.0176	< 0.001	< 0.1
	12/2/2008	7.44	182	243	16	7.0	0.0186	< 0.001	0.5
	2/27/2009	7.41	397	308	21	9.0	0.0206	< 0.001	0.5
	5/7/2009	7.97	464	261	32	19.0	0.0295	0.002	< 0.1
	8/11/2009	7.82	326	211	11	4.0	0.0179	< 0.001	0.0
	11/3/2009	7.23	385	246	18	7.0	0.0190	< 0.001	< 0.1
	2/11/2010	6.91	395	224	18	8.0	0.0208	< 0.001	0.4
	5/10/2010	7.56	423	306	26	18.0	0.0298	< 0.001	0.1
	8/19/2010	7.56	290	204	12	4.0	0.0176	< 0.001	< 0.1
	11/11/2010	7.69	348	233	14	7.0	0.0216	0.001	0.3
	5/3/2011	7.83	487	338	60	27.0	0.0526	0.002	0.5

TABLE 3. SURFACE WATER MONITORING DATA (cont'd)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
POE-DS	3/15/2008	0.100	± 0.1	0.3	± 0.2	6.6	± 1.7	6.9	0.8	± 0.4
	5/26/2008	< 0.200	± 0.1	0.3	± 0.1	3.3	± 0.8	3.6	1.8	± 0.5
	9/26/2008	0.200	---	0.4	± 0.1	0.7	± 0.7	1.1	1.2	± 0.5
	12/2/2008	0.100	± 0.1	0.4	± 0.2	-0.1	± 0.6	0.4	1.1	± 0.4
	2/27/2009	0.100	---	0.6	± 0.2	1.1	± 0.8	1.7	0.9	± 0.5
	5/7/2009	-0.010	± 0.1	0.8	± 0.2	0.5	± 0.7	1.3	1.0	± 0.5
	8/11/2009	0.100	± 0.2	0.6	± 0.2	0.3	± 1.1	0.9	1.2	± 0.4
	11/3/2009	-0.010	± 0.1	0.5	± 0.2	0.3	± 0.7	0.8	0.3	± 0.5
	2/11/2010	0.007	± 0.1	0.2	± 0.1	0.3	± 0.6	0.5	0.5	± 0.4
	5/10/2010	0.003	± 0.0	0.6	± 0.2	0.6	± 0.7	1.2	0.9	± 0.4
	8/19/2010	0.030	± 0.1	0.3	± 0.1	0.5	± 0.7	0.8	0.5	± 0.4
	11/11/2010	0.030	± 0.1	0.6	± 0.2	0.3	± 0.6	0.9	0.2	± 0.5
	2/25/2011	0.060	± 0.1	0.6	± 0.2	0.6	± 0.8	1.2	0.7	± 0.3
	5/4/2011	0.030	± 0.1	0.1	± 0.1	-0.3	± 0.6	-0.2	0.8	± 0.6
SC1	3/1/2008	0.100	± 0.2	0.6	± 0.2	1.1	± 0.4	1.7	0.8	± 0.4
	5/26/2008	< 0.200	± 0.1	0.6	± 0.2	0.6	± 0.7	1.2	1.5	± 0.5
	9/26/2008	0.500	---	0.9	± 0.2	0.7	± 0.7	1.6	2.1	± 0.6
	12/2/2008	< 0.200	± 0.1	0.8	± 0.2	1.0	± 0.7	1.8	1.6	± 0.4
	2/26/2009	0.100	---	0.4	± 0.2	0.4	± 0.8	0.8	0.6	± 0.4
	5/7/2009	0.001	± 0.1	0.6	± 0.2	0.6	± 0.6	1.2	1.1	± 0.5
	8/11/2009	0.100	± 0.1	0.6	± 0.2	1.0	± 1.0	1.6	0.8	± 0.3
	11/3/2009	0.002	± 0.1	0.4	± 0.1	0.6	± 0.7	1.0	0.6	± 0.5
	2/9/2010	-0.007	± 0.1	0.4	± 0.2	1.1	± 0.7	1.5	0.9	± 0.4
	5/10/2010	0.050	± 0.1	0.4	± 0.2	0.5	± 0.7	0.9	1.2	± 0.5
	8/19/2010	0.020	± 0.1	0.3	± 0.2	0.5	± 0.7	0.8	0.4	± 0.4
	11/15/2010	0.040	± 0.1	0.4	± 0.1	0.6	± 0.7	1.0	1.4	± 0.7
	3/17/2011	0.090	± 0.1	0.7	± 0.2	0.8	± 0.8	1.5	1.3	± 0.5
	5/4/2011	0.050	± 0.1	0.1	± 0.1	0.1	± 0.5	0.2	0.2	± 0.5
SC2	3/1/2008	0.500	± 1.0	0.5	± 0.2	0.4	± 0.4	0.9	0.6	± 0.4
	5/26/2008	< 0.200	± 0.0	0.3	± 0.2	0.5	± 0.7	0.8	1.1	± 0.4
	9/26/2008	0.600	---	0.7	± 0.2	-0.3	± 0.7	0.4	2.4	± 0.7
	12/2/2008	0.100	± 0.1	2.1	± 0.3	1.3	± 0.7	3.4	2.2	± 0.5
	2/26/2009	0.200	---	0.4	± 0.1	0.4	± 0.7	0.8	0.4	± 0.4
	5/7/2009	0.030	± 0.1	0.7	± 0.2	0.5	± 0.6	1.2	1.4	± 0.5
	8/11/2009	0.000	± 0.2	2.6	± 0.3	0.6	± 0.9	3.2	3.8	± 0.6
	11/3/2009	0.050	± 0.1	0.9	± 0.2	0.3	± 0.8	1.2	1.1	± 0.6
	2/9/2010	0.030	± 0.1	0.2	± 0.1	0.4	± 0.7	0.6	0.8	± 0.4
	5/10/2010	0.010	± 0.1	0.2	± 0.2	0.4	± 0.7	0.6	1.2	± 0.5
	8/19/2010	0.030	± 0.1	0.3	± 0.2	0.7	0.7	1.0	0.7	± 0.4

TABLE 3. SURFACE WATER MONITORING DATA (cont'd)

Sample Point Name	Date	Th230 (pCi/l)	Th230(e) (pCi/l)	Ra226 (pCi/l)	Ra226(e) (pCi/l)	Ra228 (pCi/l)	Ra228(e) (pCi/l)	Ra226+228 (pCi/l)	Alpha (pCi/l)	Alpha(e) (pCi/l)
SC2	11/15/2010	0.030	± 0.1	1.4	± 0.2	0.3	± 0.7	1.7	2.2	± 0.8
	3/17/2011	0.040	± 0.1	0.6	± 0.1	0.7	± 0.8	1.3	1.7	± 0.6
	5/4/2011	-0.009	± 0.1	0.2	± 0.2	0.5	± 0.7	0.7	0.7	± 0.6
SW-1A	3/1/2008	0.200	± 0.1	0.4	± 0.2	0.8	± 0.4	1.2	0.9	± 0.5
	5/26/2008	< 0.200	± 0.1	< 0.1	± 0.1	< 0.3	± 0.7	< 0.4	0.7	± 0.4
	9/26/2008	0.100	—	0.4	± 0.1	0.1	± 0.7	0.5	0.9	± 0.5
	12/2/2008	0.100	± 0.1	0.9	± 0.2	0.8	± 0.7	1.8	1.9	± 0.4
	2/26/2009	0.050	—	0.4	± 0.1	1.5	± 0.8	1.9	0.5	± 0.4
	5/7/2009	-0.020	± 0.1	1.0	± 0.2	0.7	± 0.7	1.7	1.5	± 0.6
	8/11/2009	-0.001	± 0.1	0.9	± 0.2	1.1	± 1.0	2.0	1.6	± 0.4
	11/3/2009	0.050	± 0.1	0.5	± 0.1	0.6	± 0.8	1.1	0.4	± 0.5
	2/10/2010	-0.004	± 0.1	0.1	± 0.1	0.9	± 0.7	1.0	0.3	± 0.4
	5/10/2010	0.001	± 0.1	0.3	± 0.2	0.2	± 0.8	0.5	0.6	± 0.4
	8/19/2010	-0.020	± 0.1	0.7	± 0.2	0.9	± 0.7	1.6	0.5	± 0.4
	11/11/2010	0.040	± 0.1	1.5	± 0.3	0.9	± 0.7	2.4	2.3	± 0.8
	5/3/2011	0.040	± 0.1	0.2	± 0.1	0.1	± 0.6	0.3	1.0	± 0.7
Weir 2	3/1/2008	0.800	± 0.7	0.3	± 0.1	1.0	± 0.4	1.3	0.4	± 0.4
	5/26/2008	< 0.200	± 0.1	0.3	± 0.2	0.2	± 0.7	0.5	1.8	± 0.5
	9/26/2008	0.100	—	0.4	± 0.1	0.1	± 0.7	0.5	1.8	± 0.6
	12/2/2008	0.100	± 0.1	0.7	± 0.2	0.4	± 0.6	1.2	1.8	± 0.4
	2/27/2009	0.080	—	0.4	± 0.1	0.9	± 0.8	1.3	0.9	± 0.5
	5/7/2009	0.030	± 0.1	0.9	± 0.2	0.7	± 0.6	1.6	1.9	± 0.6
	8/11/2009	0.100	± 0.1	1.0	± 0.2	-0.3	± 0.9	0.7	2.2	± 0.5
	11/3/2009	0.008	± 0.1	0.5	± 0.1	0.4	± 0.7	0.9	0.5	± 0.5
	2/11/2010	-0.010	± 0.1	0.2	± 0.1	0.6	± 0.7	0.8	0.3	± 0.3
	5/10/2010	-0.010	± 0.1	0.3	± 0.2	0.3	± 0.7	0.6	0.6	± 0.4
	8/19/2010	-0.001	± 0.1	0.5	± 0.2	0.6	± 0.7	1.1	0.4	± 0.4
	11/11/2010	-0.020	± 0.1	0.5	± 0.2	0.5	± 0.7	1.0	0.6	± 0.6
	5/3/2011	0.100	± 0.1	0.2	± 0.1	-0.1	± 0.6	0.1	0.9	± 0.7

TABLE 3. SURFACE WATER MONITORING DATA (cont'd)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Pb (mg/l)	Ni (mg/l)
POE-DS	3/15/2008	0.005	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/26/2008	0.004	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	9/26/2008	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	12/2/2008	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/27/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/7/2009	0.006	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	8/11/2009	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/3/2009	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/11/2010	0.006	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/10/2010	0.005	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	8/19/2010	0.006	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/11/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/25/2011	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/4/2011	0.005	0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
SC1	3/1/2008	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/26/2008	0.004	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	9/26/2008	0.008	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	12/2/2008	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/26/2009	0.005	0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/7/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	8/11/2009	0.006	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/3/2009	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/9/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/10/2010	0.005	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	8/19/2010	0.006	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/15/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	3/17/2011	0.008	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/4/2011	0.005	0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
SC2	3/1/2008	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/26/2008	0.004	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	9/26/2008	0.010	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	12/2/2008	0.013	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/26/2009	0.001	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/7/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	8/11/2009	0.016	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/3/2009	0.007	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/9/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/10/2010	0.005	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	8/19/2010	0.006	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050

TABLE 3. SURFACE WATER MONITORING DATA (cont'd)

Sample Point Name	Date	As (mg/l)	Ba (mg/l)	Be (mg/l)	Cd (mg/l)	Cr (mg/l)	Mo (mg/l)	Pb (mg/l)	Ni (mg/l)
SC2	11/15/2010	0.007	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	3/17/2011	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/4/2011	0.005	0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
SW-1A	3/1/2008	0.012	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/26/2008	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	9/26/2008	0.004	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	12/2/2008	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/26/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/7/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	8/11/2009	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/3/2009	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/10/2010	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/10/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	8/19/2010	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/11/2010	0.007	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/3/2011	0.004	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	3/1/2008	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/26/2008	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
Weir 2	9/26/2008	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	12/2/2008	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/27/2009	0.005	0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/7/2009	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	8/11/2009	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/3/2009	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	2/11/2010	0.005	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050
	5/10/2010	0.005	0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	8/19/2010	0.005	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	11/11/2010	0.004	< 0.10	< 0.010	< 0.010	< 0.050	< 0.100	< 0.050	< 0.050
	5/3/2011	0.006	< 0.10	< 0.010	< 0.005	< 0.050	< 0.100	< 0.001	< 0.050