

APPENDICE

Appendix 1

Table 1 Well identification, well location, Self potential, Redox potential (Eh), water table elevation, Fluid specific conductance, Fe^{2+} , HCO_3^- , Cl^- , SO_4^{2-} in groundwater from shallow zone of multilevel monitoring wells

Well ID	X_UTM14	Y_UTM14	*SP (mV)	*Eh (mV)	Water table elevation (m)	Specific Conductance (us/cm)	Dissolved Iron Fe^{2+} (mg/L)	Bicarbonate (HCO_3^-) (mg/L)	Chloride (Cl^-) (mg/L)	Sulfate (SO_4^{2-}) (mg/L)
<i>Background Location</i>										
PD130	641217.07	3892561.52	0.00	-112.00	329.02	1155	1.07	627.45	50.72	26.06
PD131	641223.83	3892674.97	5.40		329.23	1182	1.04	701.00	33.45	80.45
PD132	641242.60	3892790.75	-4.40	-109.10	329.40	1452	0.47	748.16	40.08	150.21
PD134	641278.71	3892728.08	2.90	-150.00	329.30	2276	5.33	745.00	36.65	715.85
PD135	641318.48	3892827.26	-11.53	-171.50	330.02	1179	4.43	559.85	19.98	157.48
PD136	641323.30	3892608.33	8.17	-121.60	329.13	1477	6.36	850.51	21.11	108.50
<i>Plume Fringe</i>										
PD133	641263.68	3892610.40	4.57	-118.00	329.92	1385	1.03	667.23	72.01	89.39
PD139	641370.90	3892728.73			330.14	1575	1.25	553.39	8.91	484.30
PD152	641261.21	3892430.30	2.10	-112.80	328.80	957	0.68	428.65	50.03	57.84
MLS36	641486.40	3892692.60	-8.20		329.96	614	0.59	277.78	9.16	95.62
<i>Plume Core</i>										
PD137	641328.37	3892549.56	1.30	-114.90	329.01	2519	5.98	1069.64	330.00	3.28
PD138	641362.58	3892502.90	3.17		328.91	3901	9.45	1678.58	372.27	3.87
PD141	641427.85	3892452.70	3.60	-135.00	328.82	1896	2.46	940.01	167.29	60.88
PD142	641455.53	3892389.35	1.07	-135.10	328.72	1857	2.98	920.09	148.26	36.81
PD143	641472.61	3892535.98	-1.73	-118.60	329.02	2093	5.12	1091.96	128.97	52.92
PD144	641485.89	3892298.63	-1.60		328.57	1050	0.97	430.53	77.44	72.21

PD148	641601.67	3892484.07	-2.33		328.87	2339	3.14	772.18	125.46	520.36
PD149	641391.50	3892290.50	0.90		328.57	1094	1.02	606.00	78.44	103.40
PD150	641294.25	3892493.50	2.97		328.89	979	1.77	444.78	49.07	76.54
PD151	641331.11	3892449.45	1.77		328.86	1646	3.39	695.00	123.49	66.51
PD153	641383.30	3892404.93	-0.97		328.77	1470	1.98	577.85	160.66	30.02
PD154	641299.51	3892396.79	-0.27	-134.50	328.70	1077	1.34	481.14	66.58	41.58
PD155	641335.90	3892353.22	-2.43	-120.10	328.60	1249	3.51	442.97	73.21	153.94
MLS32	641336.81	3892686.36			329.25	3410	12.82	2001.00	251.37	1.75
MLS35	641486.75	3892741.50	-10.73		329.92	3595	16.72	2345.00	95.77	42.56
MLS37	641460.72	3892692.71	-14.07	-130.00	329.78	1617	1.01	784.37	34.76	147.11
MLS38	641447.40	3892657.94	-11.73	-109.90	328.57	2651	4.10	1333.92	185.32	34.94
MLS40	641564.92	3892606.05			329.19	5581	8.37	2734.73	319.93	119.40
MLS43	641509.53	3892632.32	-5.73		329.23	1698	0.04	892.27	29.86	167.87
MLS54	641413.35	3892619.54			329.19	1813	2.92	1010.59	84.83	21.17
MLS55	641401.26	3892589.59	10.17	-100.00	329.14	1666	0.46	912.38	75.38	47.61
MLS88	641511.42	3892488.24	-2.17	-127.30	328.91	1712	1.02	767.34	90.77	160.49

*Eh data were collected by the author on July 2011; SP data were collected by the author on May 2012.

The missing data of Eh is caused by the low water table during dry season (July 2011); Missing SP data is because the author cannot reach the well location due to the thick vegetation.