Appendix 6

GROUNDWATER MONITORING DATA

Sample Location	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals															Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µs/cm	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Dissolved Solids	Dissolved oxygen	TPH C6-C9	TPH C10-C36
					pH - Field	EC - Field - µS/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L				Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L										
THUIN																																														
MW1	2-Jun-06		7.77	8.50	7.48				0.006															6330	92	138	1710	43		2680	424				772										
MW1	11-Jan-07		8.49	9.22	7.12				0.001			<0.0001	<0.005		<0.006		<0.001		0.026		0.11	<0.0001		2410	26	33	554	18		346	145				684										
MW1	18-Apr-07		6.77	7.50																																										
MW1	9-Jul-07		7.23	7.96	7.30	2440	17.4		<0.001			<0.0001	<0.005		0.0005		<0.001		0.008		0.09	<0.0001		2500	21	29	504	25		385	143				614								3.1	<20	380
MW1	10-Jul-07		7.18	7.91																																										
MW1	18-Jul-07		7.18	7.91																																										
MW1	7-Aug-07	1250	7.01	7.74																																										
MW1	22-Aug-07	1355	6.93	7.66																																										
MW1	5-Sep-07	1005	6.97	7.70																																										
MW1	24-Sep-07	1320	6.93	7.66																																										
MW1	11-Oct-07	1110	6.91	7.64																																										
MW1	26-Nov-07	1400	6.89	7.62																																										
MW1	29-Jan-08	1430	6.82	7.55																																										
MW1	4-Mar-08	1210	6.87	7.60																																										
MW1	23-Apr-08	1240	6.94	7.67	7.30	3100	21.3		<0.001			<0.00005	<0.01		0.002		0.0036		0.01		0.007	0.0002		3120	46	50	614	29		567	247				665									<0.025	0.027
MW1	21-Aug-08	1251	7.00	7.73																																										
MW1	29-Oct-08	1615	7.07	7.82	7.80	3430	21.6		0.001			0.00023	0.015		0.13		0.37		0.03		0.22	<0.0001		3500	44	51	670	32		680	210				690									<0.025	<0.100
MW1	29-Jan-09	1030	7.08	7.73																																										
MW1	17-Jun-09			7.87	7.20	5470	19.8		0.001	0.091	<0.001	<0.0001	0.013	0.001	0.047	0.71	0.008	0.103	0.009	<0.01	0.019	<0.0001		3870	46	61	762	28	41.2	777	167	<1	<1	725	725	39.9	1.58	<0.01				2320			
MW1	11-Sep-09	1344	7.23	7.90																																										
MW1	14-Dec-09	1000	7.23	7.90	7.5	4670	17.5	<0.01	0.001				<0.005		0.014	<0.05	0.001	0.131	0.038		0.048	<0.0001	7.83	4510	70	95	875	28	50.1	882	234	<1	<1	780	780	45.3	4.99		<0.01	0.2	0.2				
MW1	25-Feb-10	1025	7.17	7.84																																										
THUIN																																															
MW2	2-Jun-06		3.63	4.40	7				<0.001															5440	132	106	1400	14		2230	475				432										
MW2	11-Jan-07		3.85	4.62	6.8				0.002			0.0001									0.09	<0.0001		511	1	<1	101	1		25.1	9				176										
MW2	18-Apr-07		2.83	3.60																																										
MW2	9-Jul-07		3.39	4.16	7.15	446	18.8		0.002			0.0002	<0.005		0.003		<0.001		0.002		0.233	<0.0001		496	<1	<1	99	1		27.2	11				175								7.89	<20	250
MW2	10-Jul-07		3.45	4.22																																										
MW2	18-Jul-07		3.52	4.29																																										
MW2	7-Aug-07	1245	3.58	4.35																																										
MW2	22-Aug-07	1350	3.55	4.32																																										
MW2	5-Sep-07	1040	3.57	4.34																																										
MW2	24-Sep-07	1315	3.57	4.34																																										
MW2	11-Oct-07	1105	3.60	4.37																																										
MW2	26-Nov-07	1355	3.91	4.68																																										
MW2	29-Jan-08	1435	3.48	4.25																																										
MW2	4-Mar-08	1200	3.46	4.23																																										
MW2	23-Apr-08	1115	3.73	4.50	7.3	400	19.9		0.005			0.00018	0.11		0.13		0.14		0.15		0.37	0.0004		440	8.9	5.8	99	17		39	10				165									<0.025	<0.1
MW2	21-Aug-08	1244	3.74	4.51																																										
MW2	29-Oct-08	1655	3.59	4.37	6.9	600	19.2		0.008			0.00007	0.026		0.027		0.061		0.031		0.17	0.0002		620	6.8	7.1	120	6.8		93	27				180									<0.025	<0.100
MW2	29-Jan-09	1040	3.73	4.51																																										
MW2	17-Jun-09		3.69	4.53	7.7	660	19.1		0.006	0.311	0.004	0.0002	0.025	0.052	0.047	32.6	0.052	1.54	0.041	0.08	0.172	0.0005		602	1	1	128	2	5.76	59	<10	<1	<1	195	195	5.57	1.62	0.1				1540			
MW2	11-Sep-09	1348	4.01	4.8																																										
MW2	14-Dec-09	1100	3.72	4.51	7.7	691	18.3	<0.01	<0.001				<0.001		<0.001	<0.05	<0.001	0.018	<0.001		<0.005	<0.0001	7.5	640	2	1	134	2	6.07	55.3	12.8	<1	<1	202	202	5.86	1.73		<0.01	0.45	0.45				
MW2	25-Feb-10	1029	1.72	2.51																																										
NAGERO																																															
MW3	2-Jun-06		15.08		7.65		20		<0.001															1525	25	10	356	4		139	16				642										
MW3	15-Oct-06		15.71		7.85		23.1																	1534																						
MW3	11-Jan-07		15.89		7.66		24.9		<0.001				<0.001		0.006		<0.001		0.004					1600	19	7	381	4		127	4				696										
MW3	9-Jun-07		15.9		7.69		19.7		<0.001			<0.0001	<0.005		<0.001		<0.001		0.01		0.1			1028	15	5	389	3			3				673										
MW3	5-Oct-07		15.6		6.8		19.8																	1710																						
MW3	8-Jan-08		15.01		7.9		23.8																	1620																						
MW3	23-Apr-08		14.05		7.8		23.5																	1740																						
MW3	10-Jul-08		14.08		7.8		19																	1630																						
MW3	29-Oct-08		13.85		7.8		22.8																	1770																						
MW3	20-Jan-09		13.3		7.8		21.7																	1770																						
MW3	22-Apr-09		13.78		7.9		21.8																	1780																						
MW3	22-Jul-09		14.13		7.9		21.2																	1780																		890			
MW3	12-Nov-10		14.65		8		23.1																	1800																		890			
MW3	15-Feb-10		14.24		7.9		21.5																	1440																		720			
MW3	16-Apr-10		13.21		8		23.3																	1440																		720			

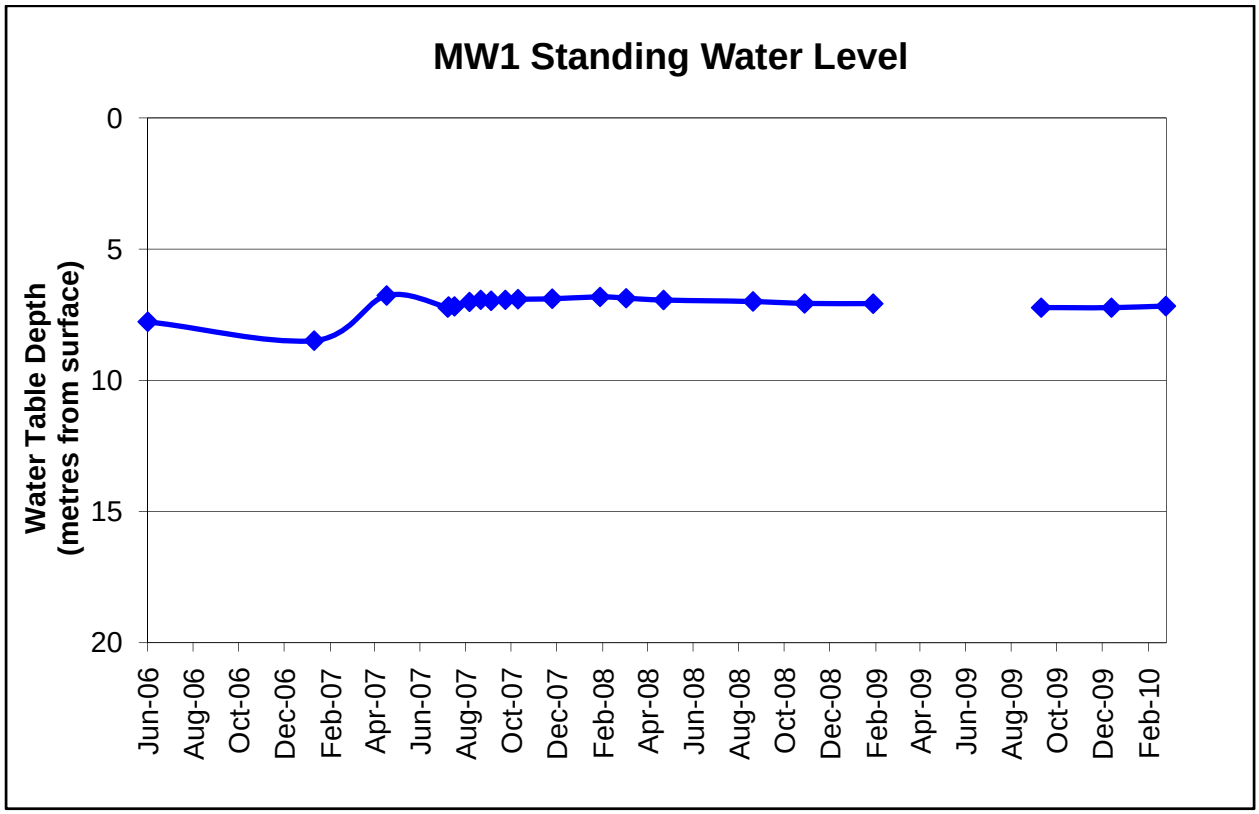
					Field Parameters			Total Metals																		Major Cations					Major Anions														
Sample Location	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	pH - Field	EC - Field - µS/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µS/cm	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L	Total Cations - meq/L	Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L	Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Dissolved Solids	Dissolved oxygen	TPH C6-C9	TPH C10-C36
TARRAWONGA																																													
MW4	2-Jun-06		8.8	9.5	7				0.006														3290	157	118	614	19		905	155				1010										
MW4	9-Sep-06		8.6	9.3																																									
MW4	11-Jan-07		8.67	9.37	7.06				0.004			0.0003	<0.005		0.011		0.029		0.014		0.1	<0.0001		3430	152	103	594	17		787	143				1050										
MW4	9-Jul-07		9.13	9.83	6.82	5410	18.9		0.001			0.0004	<0.005		0.008		0.011		0.011		0.13	<0.0001		5400	211	166	829	16		1480	235				989								0.6	<20	330
MW4	18-Jul-07		9.18	9.88																																									
MW4	7-Aug-07	1305	9.17	9.87																																									
MW4	22-Aug-07	1340	9.17	9.87																																									
MW4	5-Sep-07	1000	9.21	9.91																																									
MW4	24-Sep-07	1310	9.03	9.73																																									
MW4	11-Oct-07	1055	8.97	9.67																																									
MW4	26-Nov-07	1350	9.06	9.76																																									
MW4	29-Jan-08	1425	9.1	9.8																																									
MW4	4-Mar-08	1150	9.17	9.87																																									
MW4	4-Apr-08	1220	9.15	9.85																																									
MW4	23-Apr-08	1015	9.18	9.88	7.1	5160	18		0.004			0.0015	0.042		0.29		0.44		0.16		0.62	0.001		4960	210	158	802	21		1240	317				995									<0.025	<0.1
MW4	21-Aug-08	1230	9.31	10.01																																									
MW4	29-Oct-08	1740	9.28	9.98	7	5740	22.2		0.001			0.00009	0.008		0.008		0.18		0.016		0.2	<0.0001		5800	220	170	840	23		1400	280				980									<0.025	<0.100
MW4	29-Jan-09	0900	9.29	9.96																																									
MW4	17-Jun-09			10.05	6.8	5400	21.5		0.007	1.16	0.003	0.0004	0.023	0.015	0.207	24.9	0.106	1.82	0.055	0.04	0.278	0.0004		4920	189	147	755	16	54.8	1160	156	<1	<1	977	977	55.6	0.8	<0.01				2980			
MW4	28-Aug-09	1215	9.48	10.1																																									
MW4	14-Dec-09	0900	9.52	10.14	6.94	5060	25.6	<0.01	0.001				<0.005		0.001	<0.05	<0.001	0.671	0.016		0.114	<0.0001	7.35	5040	187	149	746	16	54.5	64.1	31.6	<1	<1	783	783	45.3	3.41		0.02	0.45	0.48			
MW4	25-Feb-10	1330	9.68	10.3																																									
TEMPLEMORE																																													
MW5	2-Jun-06		2.78	3.4	6.9				0.006														1530	17	13	373	6		169	138				472										
MW5	9-Sep-06		2.98	3.6																																									
MW5	11-Jan-07		3.56	4.18	7.25				0.003			<0.0001	<0.001		<0.001		<0.001		0.013		0.09			4870	44	49	1070	13		1060	435				836										
MW5	18-Apr-07		2.98	3.6																																									
MW5	10-Jul-07		3.85	4.47	7.59	1360	19.7		0.002			<0.0001	<0.005		0.001		<0.001		0.009		0.111	<0.0001		1930	14	15	13	5		291	161				380								1.32	<20	3490
MW5	18-Jul-07		3.87	4.49																																									
MW5	7-Aug-07	1230	3.92	4.54																																									
MW5	22-Aug-07	1500	3.88	4.5																																									
MW5	5-Sep-07	1200	3.84	4.46																																									
MW5	24-Sep-07	1410	3.86	4.48																																									
MW5	11-Oct-07	1200	3.91	4.53																																									
MW5	26-Nov-07	1515	3.94	4.56																																									
MW5	29-Jan-08	1520	3.06	3.68																																									
MW5	4-Mar-08	1405	3.01	3.63																																									
MW5	4-Apr-08	1200	3.07	3.69																																									
MW5	23-Apr-08	1500	3.15	3.77	7.9	3550	19.9		0.012			0.00017	0.006		0.027		0.054		0.042		0.11	<0.0001		3260	29	33	696	13		553	332				630										
MW5	21-Aug-08	1305	3.10	3.72																																									
MW5	29-Oct-08	1840	2.97	3.59	7.3	3300	19.1		0.008			<0.00005	0.005		0.004		0.018		0.007		0.028	<0.0001		3400	21	24	640	11		560	290				680									<0.025	0.57
MW5	29-Jan-09	1050	3.12	3.73																																									
MW5	17-Jun-09		3.33	4.18	7.7	2390	19.6		0.012	0.054	<0.001	<0.0001	0.002	0.003	0.02	1.66	0.019	0.586	0.006	<0.01	0.105	<0.0001		2120	13	15	485	8	23.2	315	120	<1	<1	486	486	21.1	4.6	0.07				1370			
MW5	14-Sep-09	1314	3.52	4.32																																									
MW5	14-Dec-09	1200	3.76	4.56	7.21	6900	28.4	0.04	0.016				<0.001		0.002	0.19	<0.001	1.4	0.022		0.078	<0.0001	7.44	7460	9	106	1870	28	91	1720	678	<1	<1	1110	1110	84.9	3.44		<0.01	<0.01	<0.01				
MW5	25-Feb-10	1035	2.91	3.71																																									
NAGERO																																													
MW6	2-Jun-06		8.34	9	7.3				<0.001														2030	59	29	440	8		308	55				720										
MW6	9-Sep-06		8.84	9.5																																									
MW6	11-Jan-07		9.15	9.81	6.89				<0.001			<0.0001	<0.005		<0.001		<0.001		0.011		0.08	<0.0001		2030	62	30	426	7		252	51				724										
MW6	10-Jul-07		9.37	10.03	7.5	2060	18.1		0.0005			0.00005	0.0025		0.001		0.0005		0.004		0.01	0.00005		2000	58	27	411	8		283	47				666								5.99		
MW6	18-Jul-07		9.35	10.01																																									
MW6	7-Aug-07	1105	9.32	9.98																																									
MW6	22-Aug-07	1320	9.29	9.95																																									
MW6	5-Sep-07	1110	9.31	9.97																																									
MW6	24-Sep-07	1250	9.07	9.73																																									
MW6	11-Oct-07	1035	9.16	9.82																																									
MW6	26-Nov-07	1325	9.17	9.83																																									
MW6	29-Jan-08	1400	9.06	9.72																																									
MW6	4-Mar-08	1125	8.815	9.475																																									
MW6	22-Apr-08	1700	8.62	9.28	7.1	2000	21.1		0.001			<0.00005	0.001		0.002		0.0031		0.006		0.005	<0.0001		2120	64	29	391	9.8		273	51				670									<0.025	<0.1
MW6	21-Aug-08	1051	8.545	9.205																																									
MW6	29-Oct-08	1530	8.48	9.15	7.1	2050	23.9		0.001			0.00005	0.003		0.003		0.077		0.004		0.034	<0.0001		2100	60	27	380	8.5		280	50				680									<0.025	0.18
MW6	29-Jan-09	1010	8.33	9.1																																									
MW6	14-Sep-09	1246	8.65	9.43																																									
MW6	14-Dec-09	1130	8.86	9.64	7.13	2112	23.4	<0.01	<0.001				<0.005		<0.001	<0.05	0.002	0.336	0.008		0.01	<0.0001	7.3	2100	56	26	385	8	21.9	252	39.4	<1	<1	652	652	21	2.24		0.02	0.53	0.55				
MW6	25-Feb-10	1010	8.84	9.62																																									

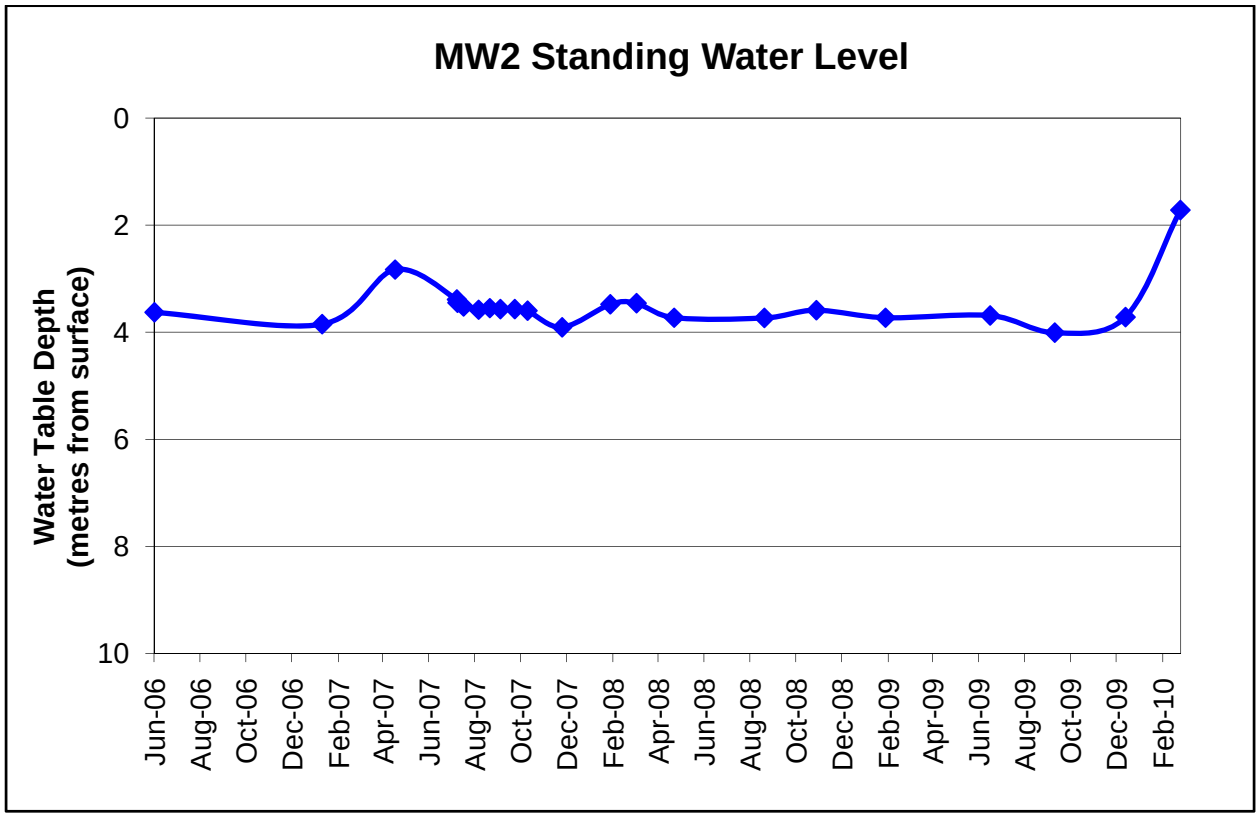
Sample Location	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µs/cm	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Dissolved Solids	Dissolved oxygen	TPH C6-C9	TPH C10-C36
					pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L					Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L										
TARRAWONGA MINE																																															
MW7	2-Jun-06		73.47	74.3	7.2				0.002																2250	45	43	536	12		202	34				1100										
MW7	9-Sep-06		79.67	80.5																																											
MW7	11-Jan-07		76.17	77	7.32				<0.001			<0.0001	<0.005		<0.001		<0.001		0.005		0.05	<0.0001		1960	23	36	459	8		189	22				935										
MW7	18-Apr-07		76.07	76.9																																											
MW7	10-Jul-07		77.06	77.89	7.24	2250	18.7		<0.001			<0.0001	<0.005		0.001		<0.001		0.018		0.106	<0.0001		2270	35	36	458	10		170	23				998								4.38	<20	410
MW7	18-Jul-07		77.1	77.93																																											
MW7	7-Aug-07	1340	78.29	79.12																																											
MW7	22-Aug-07	1430	78.45	79.28																																											
MW7	5-Sep-07	1140	78.6	79.43																																											
MW7	24-Sep-07	1350	78.56	79.39																																											
MW7	11-Oct-07	1140	78.72	79.55																																											
MW7	26-Nov-07	1440	79.34	80.17																																											
MW7	29-Jan-08	1500	79.8	80.63																																											
MW7	4-Mar-08	1335	80.27	81.10																																											
MW7	22-Apr-08	1200	80.85	81.68	7.6	2440	21.9		<0.001			0.00014	0.004		0.033		0.25		0.017		0.12	<0.0001		2370	52	45	483	11		188	5				1050										
MW7	21-Aug-08	1526	83.74	84.57																																											
MW7	29-Oct-08	0915	85.99	86.81	7.4	2310	24.8		0.001			0.00006	0.005		0.014		0.088		0.009		0.099	<0.0001		2300	48	44	470	13		180	24				990									<0.025	0.3
MW7	28-Jan-09	1615	86.99	87.8																																											
MW7	17-Jun-09	0915	86.45	87.5	7.4	2440	20.7		<0.001	0.2	<0.001	<0.0001	0.001	<0.001	0.057	0.43	0.054	0.047	0.007	<0.01	0.13	<0.0001		2280	46	44	481	11	27.1	169	16	<1	<1	1050	1050	26.1	1.96	0.17				1430			
MW7	27-Aug-09	1225	89.99	91.04																																											
MW7	23-Dec-09	1355	89.53	90.58	7.55	2230	27.4	0.03	<0.001				<0.001		0.002	0.26	0.004	0.075	0.007		0.015	<0.0001	7.49	2240	5	46	556	9	28.5	182	17.1	<1	<1	1050	1050	26.5	3.58		<0.01	<0.01	<0.01				
MW7	25-Feb-10	1355	89.64	90.69																																											
TARRAWONGA MINE																																															
MW8	2-Jun-06		13.06	13.8	6.7				<0.001																2240	161	48	298	9		426	46				588										
MW8	9-Sep-06		13.16	13.9																																											
MW8	11-Jan-07		13.41	14.15	6.7				<0.001			<0.0001	<0.005		0.002		0.001		0.007		0.16	<0.0001		2260	180	53	319	7		411	80				587										
MW8	18-Apr-07		12.86	13.6																																											
MW8	9-Jul-07		13.62	14.36	6.8	2530	18.9		<0.001			<0.0001	<0.005		0.005		0.004		0.006		0.102	<0.0001		2610	196	55	308	8		483	80				616								7.77	<20	250
MW8	18-Jul-07		13.67	14.41																																											
MW8	7-Aug-07	1325	13.66	14.4																																											
MW8	22-Aug-07	1415	13.66	14.4																																											
MW8	5-Sep-07	1130	13.72	14.46																																											
MW8	24-Sep-07	1340	13.64	14.38																																											
MW8	11-Oct-07	1120	13.63	14.37																																											
MW8	26-Nov-07	1410	13.69	14.43																																											
MW8	29-Jan-08	1445	13.54	14.28																																											
MW8	4-Mar-08	1220	13.56	14.3																																											
MW8	22-Apr-08				Bore blocked no sample																																											
MW8	21-Aug-08	1510	13.78	14.52																																											
MW8	29-Oct-08	1030	13.85	14.59	Bore blocked no sample																																										
MW8	28-Jan-09	1600	13.85	14.6																																											
MW8	17-Jun-09		14.02	14.77	Unable to sample - casing blocked																																										
MW8	27-Aug-09	1145	14.02	14.77																																											
MW8	23-Dec-09	1415	14.1	14.85	Unable to sample - casing blocked																																										
MW8	25-Feb-10	1520	13.8	14.55																14.55																											
THUIN																																															
GW002129	2-Jun-06		23.06	23.3																																											
GW002129	11-Jan-07		22.66	22.9	9.1				<0.001															1230	3	2	289	11		148	1				438										
GW002129	10-Jul-07		22.8	23.04	8.45	1130	19.5		<0.001			<0.0001	<0.005		0.018		<0.001		<0.001		0.028	<0.0001		1210	2	2	256	10		149	2				362								1.94	<20	250
GW002129	18-Jul-07		22.81	23.05																																											
GW002129	7-Aug-07	1240	22.87	23.11																																											
GW002129	22-Aug-07	1445	22.73	22.97																																											
GW002129	5-Sep-07	1350	22.82	23.06																																											
GW002129	24-Sep-07	1400	22.94	23.18																																											
GW002129	11-Oct-07	1155	22.71	22.95																																											
GW002129	26-Nov-07	1510	22.77	23.01																																											
GW002129	29-Jan-08	1515	22.72	22.96																																											
GW002129	4-Mar-08	1350	22.76	23																																											
GW002129	4-Apr-08	1205	22.73	22.97																																											
GW002129	23-Apr-08	1345	22.84	23.08	8.9	990	21.6		<0.001			0.0008	0.004		0.8		0.23		0.006		6.9	<0.0001		1000	10	4.5	225	11		152	3				315									<0.025	<0.1
GW002129	21-Aug-08	1258	22.29	22.53																																											
GW002129	29-Oct-08	1140		Unable to sample																																											
GW002129	28-Jan-09	1115	26.2	26.75																																											

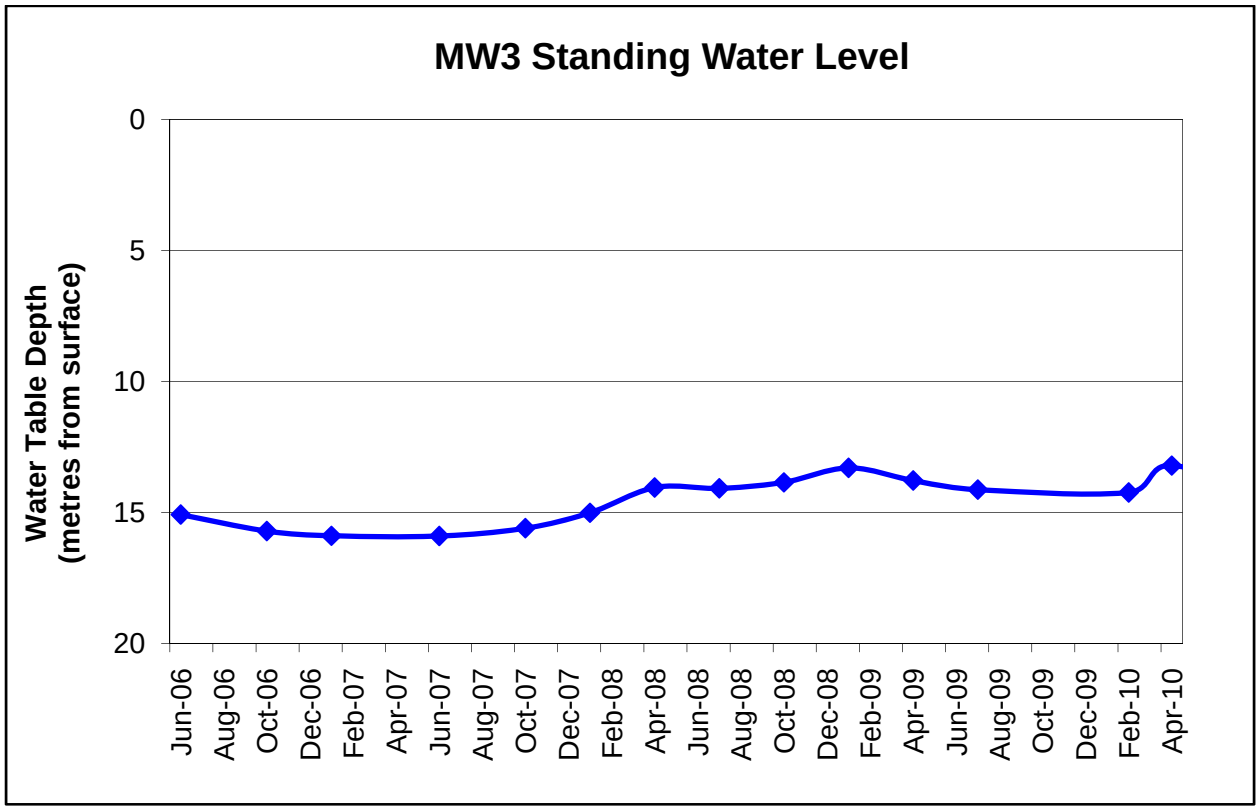
Sample Location	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µs/cm	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Dissolved Solids	Dissolved oxygen	TPH C6-C9	TPH C10-C36
					pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L					Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L										
TARRAWONGA MINE																																															
GW002501	2-Jun-06		27.5	27.9	6.6				<0.001																	1460	71	41	104	62		347	33				182										
GW002501	11-Jan-07		27.69	28.09	6.15				<0.001			0.0001	<0.001		<0.001		<0.001		<0.001		0.06	<0.0001		3080	97	73	223	64		1180	63				1										
GW002501	10-Jul-07		28.23	28.63	6.33	6080	19.6		<0.001			<0.0001	<0.005		0.002		<0.001		0.001		0.076	<0.0001		5890	234	243	689	51		1680	405				355								1.25	<20	250
GW002501	18-Jul-07		28.19	28.59																																											
GW002501	7-Aug-07	1315	28.15	28.55																																											
GW002501	22-Aug-07	1450	28.13	28.53																																											
GW002501	5-Sep-07	1120	28.17	28.57																																											
GW002501	24-Sep-07	1330	28.02	28.42																																											
GW002501	11-Oct-07	1115	28.04	28.44																																											
GW002501	26-Nov-07	1405	28.02	28.42																																											
GW002501	29-Jan-08	1440	27.95	28.35																																											
GW002501	4-Mar-08	1215	27.8	28.2																																											
GW002501	22-Apr-08	1500	27.66	28.06	6.5	5400	22.2		<0.001			0.00007	<0.001		0.005		0.001		0.014		0.091	<0.0001		4760	226	215	611	54		1490	442				350									<0.025	0.23
GW002501	21-Aug-08	1500	27.71	28.11																																											
GW002501	29-Oct-08	1055	27.9	28.3	6.4	4500	25.3		<0.001			0.00011	0.006		0.013		0.0068		0.005		0.13	<0.0001		4500	160	120	270	56		1500	130				48									<0.025	<0.100
TEMPLEMORE																																															
GW044997	2-Jun-06		6.19	6.4	6.9				0.001															3000	112	102	544	4		758	170				768										
GW044997	11-Jan-07		6.62	6.83	6.95				0.009			<0.0001	<0.005		0.001		<0.001		0.002		0.04	<0.0001		1570	45	36	298	1		200	55				495										
GW044997	10-Jul-07		6.7	6.91	7.06	785	17.1		0.009			0.0002	<0.005		0.001		<0.001		0.001		0.088	<0.0001		1590	46	41	270	1		211	84				441								9	<20	740
GW044997	18-Jul-07		6.73	6.94																																											
GW044997	7-Aug-07	1130	6.79	7																																											
GW044997	22-Aug-07	1505	6.76	6.97																																											
GW044997	5-Sep-07	1205	6.83	7.04																																											
GW044997	24-Sep-07	1415	6.62	6.83																																											
GW044997	11-Oct-07	1210	6.73	6.94																																											
GW044997	26-Nov-07	1525	7.05	7.26																																											
GW044997	29-Jan-08	1525	6.44	6.65																																											
GW044997	4-Mar-08	1410	6.23	6.44																																											
GW044997	4-Apr-08	1140	6.295	6.505																																											
GW044997	22-Apr-08	1615	6.31	6.52	7	3370	21.8		0.007			<0.00005	<0.001		0.005		0.0003		0.012		0.008	<0.0001		3150	135	125	461	1.7		656	276				585									<0.025	<0.1
GW044997	21-Aug-08	1410	6.81	7.02																																											
GW044997	29-Oct-08	1815	6.86	7.06	Bore blocked, no sample																																										
GW044997	29-Jan-09	1130	7	7.2																																											
GW044997	17-Jun-09		7.52	7.77	7.1	3580	18.9		0.066	0.523	<0.001	0.0003	0.001	0.002	0.134	46.9	0.016	0.204	0.006	0.09	0.327	0.0001		3350	112	111	486	8	36	626	132	<1	<1	693	693	34.2	2.53	2.93				2020				
GW044997	28-Aug-09	1240	7.85	8.05																																											
GW044997	23-Dec-09	1130	7.97	8.17	6.95	3050	24.2	0.02	0.008				<0.001		0.005	0.07	<0.0010	0.021	0.004		0.065	<0.0001	6.87	3050	40	118	546	3	35.5	636	203	<1	<1	517	517	32.5	4.4		0.22	21	21.2				
GW044997	25-Feb-10	1040	7.81	8.01																																											
AMBARDO																																															
GW031856	2-Jun-06			16.4	7.3				<0.001			<0.0001	<0.001		0.036		0.001		0.001		0.126	<0.0001		1150	50	33	156	3		105	22				459									<20	<50
GW031856	11-Jan-07			19.74	7.27	910	23.1		<0.001			<0.0001	<0.005		0.005		<0.001		<0.001		<0.005	<0.0001		1080	47	30	164	3		75	18				457								3.37	<20	<50
GW031856	10-Jul-07			16.15	7.9	1080	13.5		<0.001			<0.0001	<0.005		0.008		0.0005		0.0005		2.29	0.00005		1180	48	34	162	3		94.8	20				440								3.11	10	25
GW031856	22-Apr-08	1650			7.4	1090	19.8		0.001			<0.00005	<0.001		0.008		0.0004		0.003		0.048	<0.0001		1060	50	33	145	3.6		106	18				480									<0.025	<0.1
GW031856	29-Oct-08	1225																																													
GW031856	10-Feb-09	915	17.85	18.49	7.3	1090	26.9		0.002			<0.00005	0.003		0.009		0.0006		0.002		0.26	<0.0001		1100	51	30	150	2.8		81	19				440									<0.025	<0.025
GW031856	17-Jun-09	1005			7.4	1170	20.1		0.001	0.156	<0.001	<0.0001	<0.001	<0.001	0.004	0.06	<0.001	0.001	<0.001	<0.01	0.037	<0.0001		1110	51	33	149	3	11.8	92	15	<1	<1	453	453	12	0.52	<0.01				704				
GW031856	11-Sep-09	1330	15.51	16.28																																											
GW031856	23-Dec-09	1450	18.4		7.73	1029	29.3	0.01	0.001				<0.001		0.001	<0.05	0.001	0.012	0.001		0.205	<0.0001	7.45	1060	40	34	169	3	12.2	92.2	17.4	<1	<1	422	422	11.4	3.24		<0.01	0.14	0.14				
GW031856	25-Feb-10	1245	16.31	16.91	7.61	1240	25.3	<0.01	0.001				<0.005		0.002	<0.05	<0.001	0.001	<0.001		0.014	<0.0001	7.54	1110	47	34	160	3	12.2	90.8	17.6	<1	<1	436	436	11.6	2.42		<0.01	0.19	0.19				
MERRIOWN																																															
GW020432	2-Jun-06			21.1	7.4				<0.001															2030	40	28	456	12		331	50				710										
GW020432	11-Jan-07				7.05				<0.001			<0.0001	<0.005		0.006		<0.001		<0.001		0.02	<0.0001		2200	40	28	444	13		297	43				706										
GW020432	22-Apr-08																																														
GW020432	29-Oct-08																																														

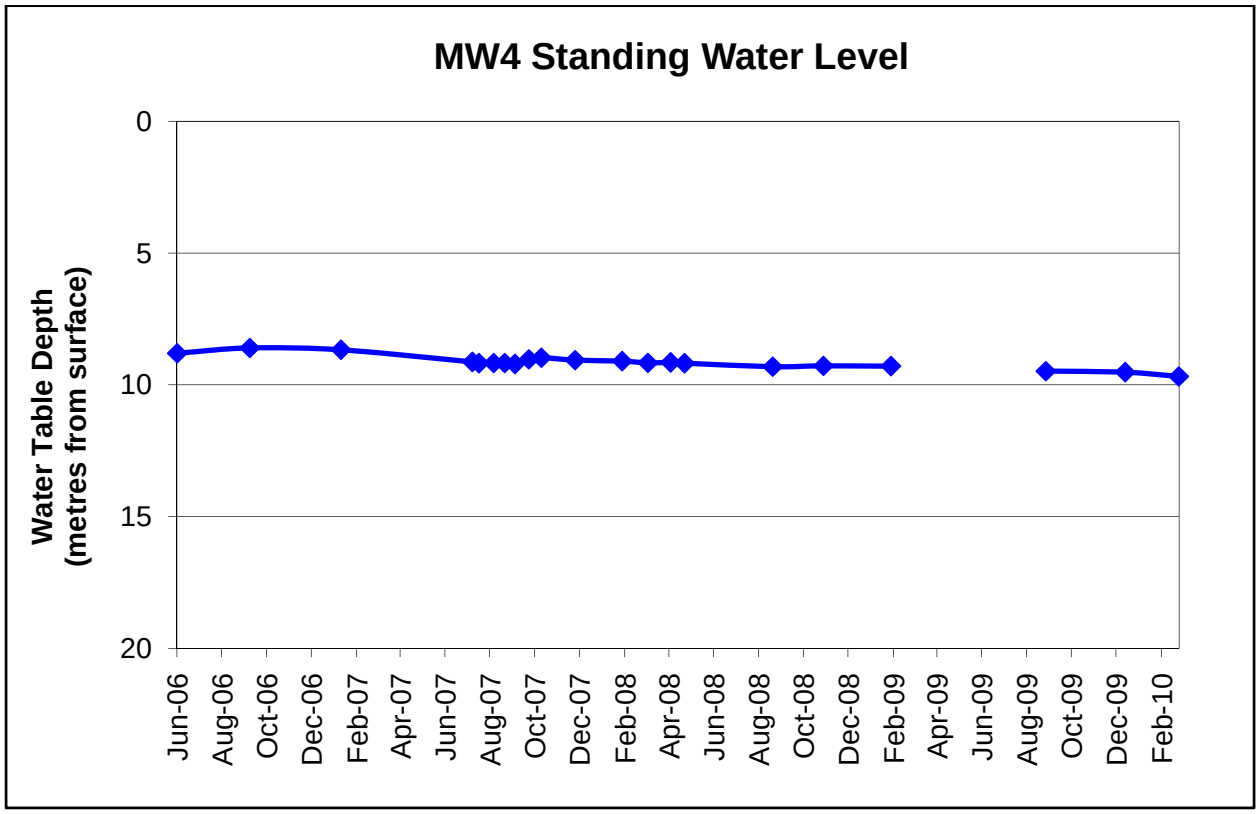
Sample Location	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																	Major Cations				Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N -mg/L	Nitrate as N - mg/L	Nitrite + Nitrate as N - mg/L	Total Dissolved Solids	Dissolved oxygen	TPH C6-C9	TPH C10-C36
					pH - Field	EC - Field - µS/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L	Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µS/cm	Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L										
TARRAWONGA																																												
GW052266	2-Jun-06		7.67	8.1	7.9				<0.001															1360	17	13	301	5		134	65				488									
GW052266	11-Jan-07		8.94	9.37	7.58				<0.001			<0.0001	<0.005		<0.001		<0.001		<0.001		0.02	<0.0001		1950	45	29	389	8		362	126				457									
GW052266	10-Jul-07		7.92	8.35	8.01	1330	13.3		<0.001			<0.0001	<0.005		<0.001		<0.001		<0.001		0.01	<0.0001		1480	23	14	315	6		170	79				435								10.61	<20	250
GW052266	18-Jul-07		7.97	8.4																																								
GW052266	7-Aug-07	1300	7.94	8.37																																								
GW052266	22-Aug-07	1335	7.95	8.38																																								
GW052266	5-Sep-07	0955	8.02	8.45																																								
GW052266	24-Sep-07	1305	7.92	8.35																																								
GW052266	11-Oct-07	1050	7.9	8.33																																								
GW052266	26-Nov-07	1345	8	8.43																																								
GW052266	29-Jan-08	1420	8.01	8.44																																								
GW052266	4-Mar-08	1145	8.04	8.47																																								
GW052266	4-Apr-08	1210	8	8.43																																								
GW052266	22-Apr-08	915	8.04	8.47	7.2	1230	20.6		<0.001			<0.00005	<0.001		<0.001		0.0002		0.006		<0.005	<0.0001		1250	94	48	110	4.5		131	19				465									<0.025	<0.1
GW052266	21-Aug-08	1225	5.86	6.29																																								
GW052266	29-Oct-08	1725			8.7	1600	28.4		<0.001			<0.00005	0.002		0.001		0.0003		<0.001		0.013	0.0006		1600	19	17	270	6.5		220	93				450									<0.025	<0.100
GW052266	28-Aug-09	1205		10.13																																								
GW052266	14-Dec-09	0840	11.3	11.35	7.4	922	23.3	<0.01	0.003				<0.001		0.003	<0.05	<0.001	0.006	0.003		0.018	<0.0001	7.51	838	55	16	84	<1	7.72	64.1	31.6	<1	<1	252	252	7.51	1.36		<0.01	6.09	6.09				
GW052266	25-Feb-10	1320	10.44	10.49																																								
TEMPLEMORE																																												
Templemore A	18-Jul-07		8.61	9.07																																								
Templemore A	7-Aug-07	1135	11.33	11.79																																								
Templemore A	22-Aug-07	1515	12.08	12.54																																								
Templemore A	5-Sep-07	1208	12.09	12.55																																								
Templemore A	24-Sep-07	1420	12.22	12.68																																								
Templemore A	11-Oct-07	1215	12.08	12.54																																								
Templemore A	26-Nov-07	1530	12.09	12.55																																								
Templemore A	29-Jan-08	1540	12.05	12.51																																								
Templemore A	4-Mar-08	1420	12.07	12.53																																								
Templemore A	4-Apr-08	1145	9.16	9.62																																								
Templemore A	21-Aug-08	1325	8.68	9.14																																								
Templemore A	29-Jan-09	1118	7.84	8.3																																								
Templemore A	17-Jun-09		8.65	9.39	7.7	1640	19.7		0.003	0.132	<0.001	<0.0001	<0.001	<0.001	0.021		0.002	0.247	0.002	<0.01	0.02	<0.0001	0.16	1500	165	42	106	1	16.3	228	56	<1	<1	426	426	16.1	0.7	0.01				1000			
Templemore A	28-Aug-09	1242	8.92	9.4																																								
Templemore A	23-Dec-09	1110	10.1	10.58	7.2	1473	24	<0.01	0.002				<0.001		0.007	<0.05	<0.001	0.013	0.001		0.025	<0.0001	7.54	1400	72	41	125	1	12.4	246	79	<1	<1	241	241	13.6	4.61		0.07	3.25	3.32				
Templemore A	25-Feb-10	1055	9.16	9.64																																								
TEMPLEMORE																																												
Templemore B	18-Jul-07		9.89	9.89																																								
Templemore B	7-Aug-07	1145	8.14	8.14																																								
Templemore B	22-Aug-07	1525	8.31	8.31																																								
Templemore B	5-Sep-07	1211	8.17	8.17																																								
Templemore B	24-Sep-07	1425	8.05	8.05																																								
Templemore B	11-Oct-07	1220	8.09	8.09																																								
Templemore B	26-Nov-07	1535	7.9	7.9																																								
Templemore B	29-Jan-08	1545	8.13	8.13																																								
Templemore B	4-Mar-08	1425	8.44	8.44																																								
Templemore B	4-Apr-08	1150	8.42	8.42																																								
Templemore B	21-Aug-08	1329	10.55	10.55																																								
Templemore B	29-Jan-09	1145	15.5	15.5																																								
Templemore B	17-Jun-09		9.49	9.63	7.3	1810	19.5		0.002	0.145	<0.001	<0.0001	<0.001	<0.001	0.055	<0.05	<0.001	0.008	<0.001	0.01	0.052	<0.0001		1700	118	52	175	2	17.9	240	106	<1	<1	419	419	17.4	1.46	<0.01				1080			
Templemore B	28-Aug-09	1250	12.69	12.83																																								
Templemore B	23-Dec-09	1040	15.84	15.98	6.75	1491	24.4	<0.01	0.003				<0.001		0.022	<0.05	<0.001	0.003	0.002		0.068	<0.0001	7.44	1420	31	31	221	2	13.8	196	134	<1	<1	291	291	14.1	1.29		<0.01	0.74	0.74				
Templemore B	25-Feb-10	1112	9.36	9.5																																								

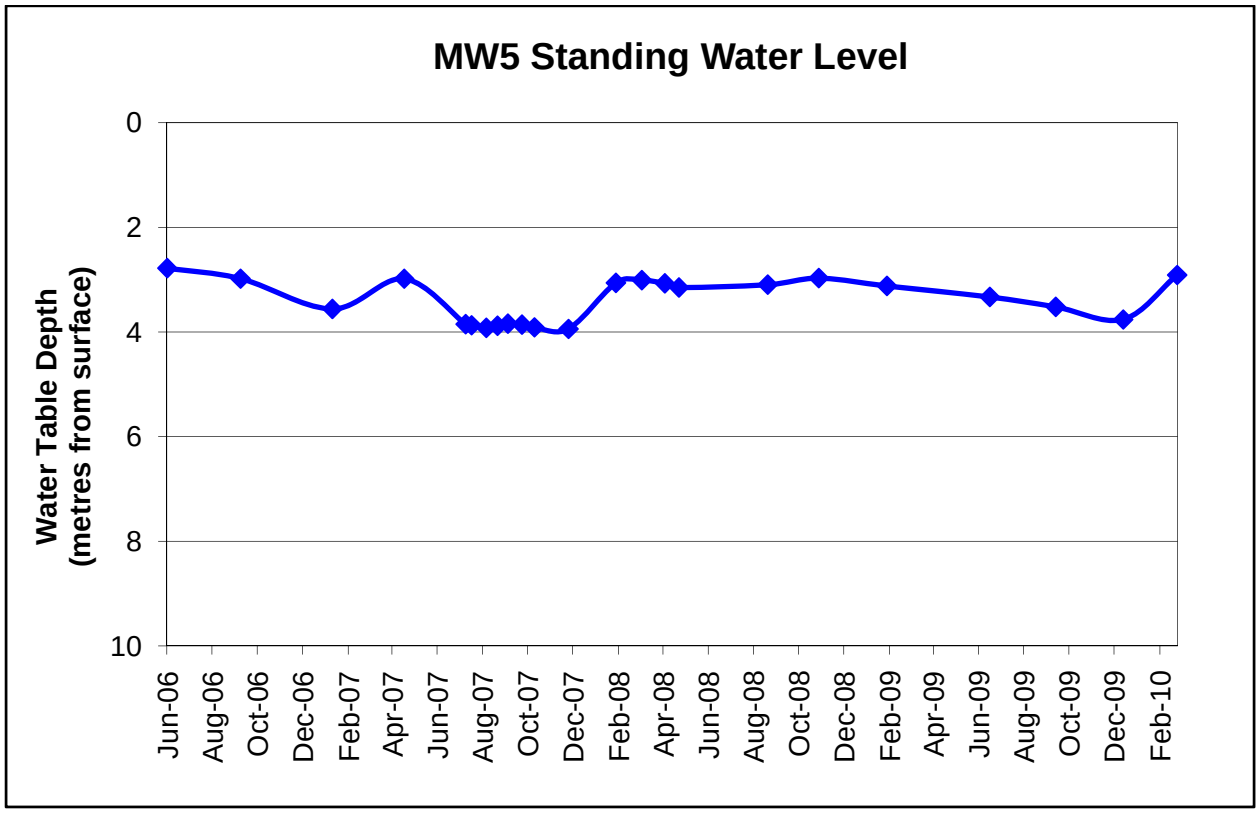
Denotes dissolved metals

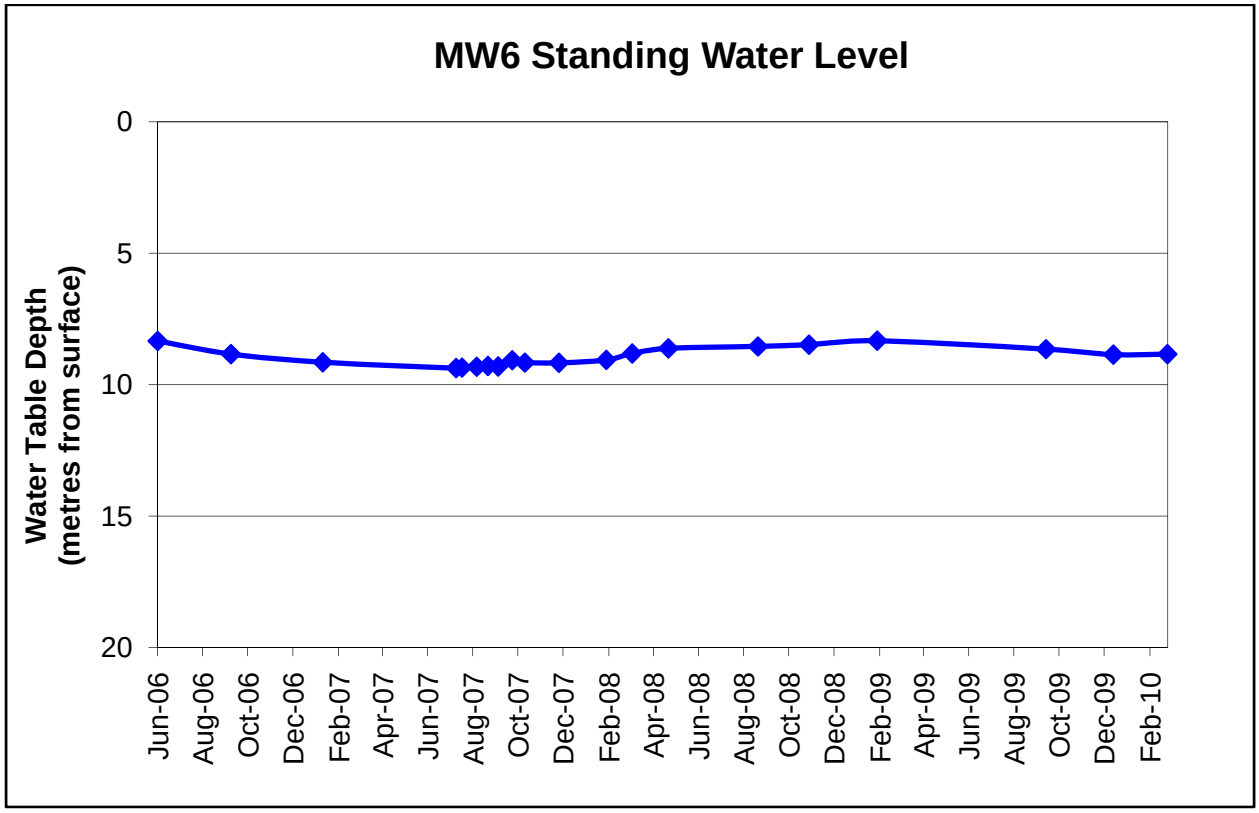

MW1 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

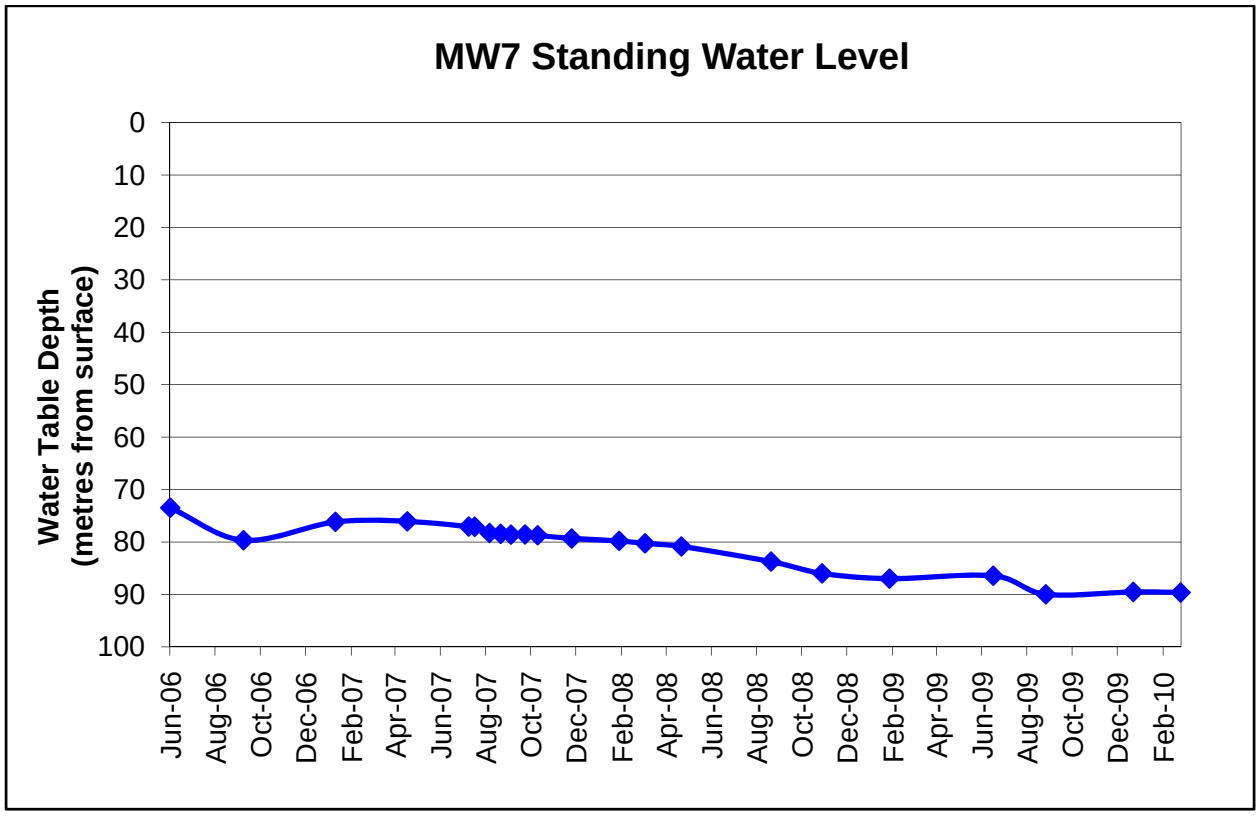

MW2 Standing Water Level
Water Table Depth (metres from surface)
0
2
4
6
8
10
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

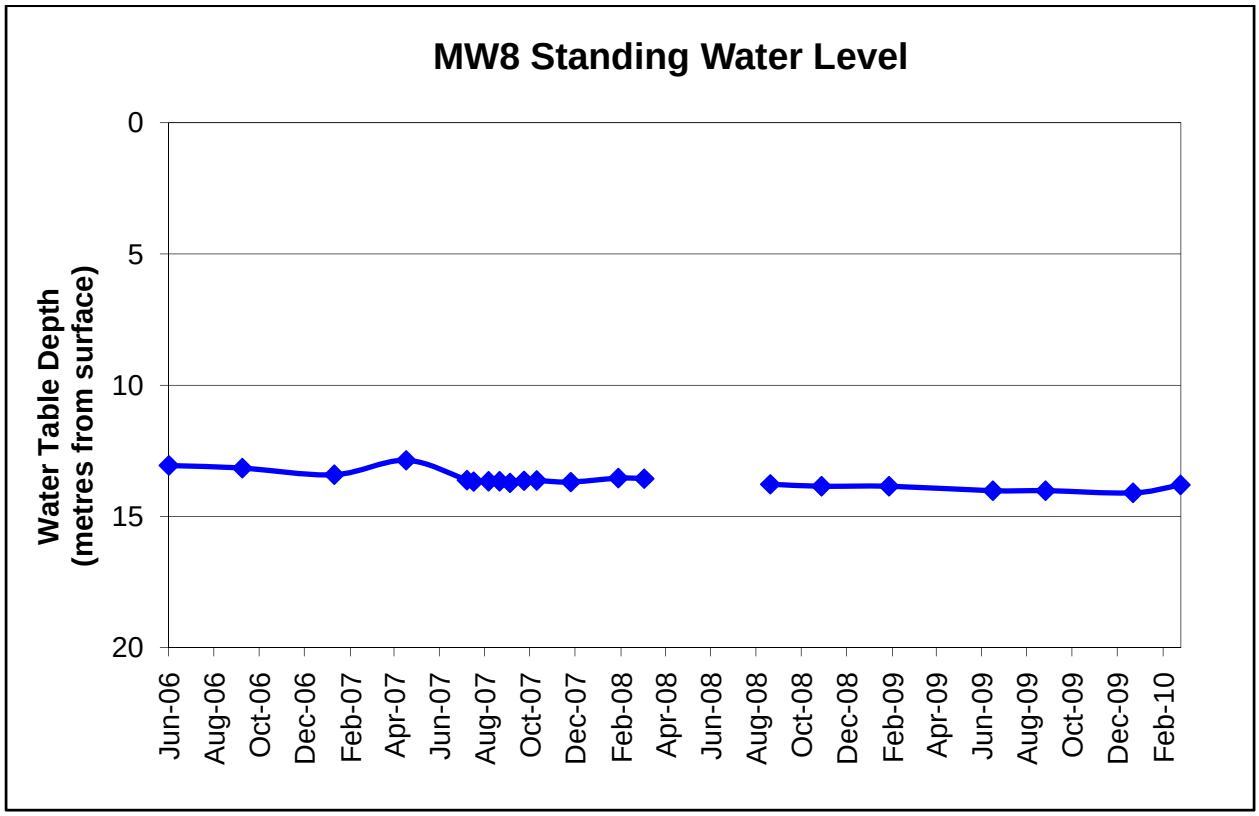

MW3 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10
Apr-10

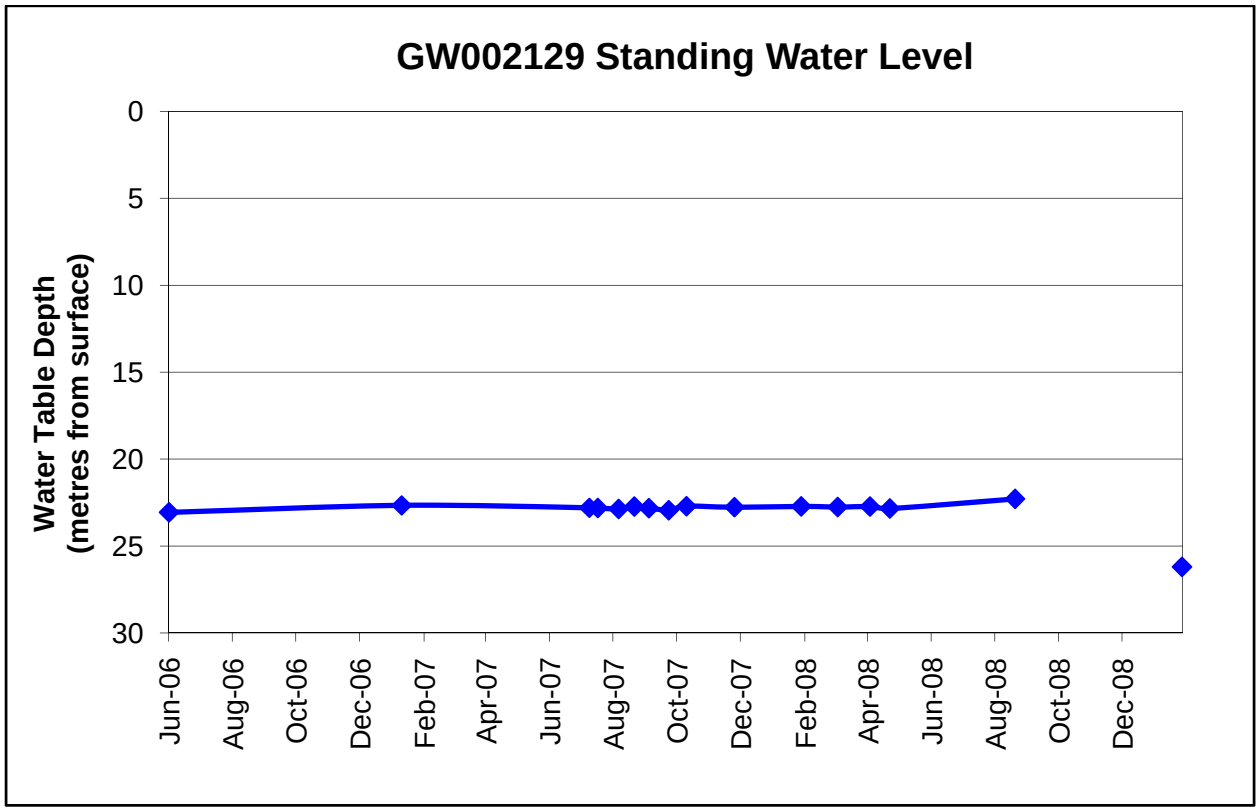

MW4 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

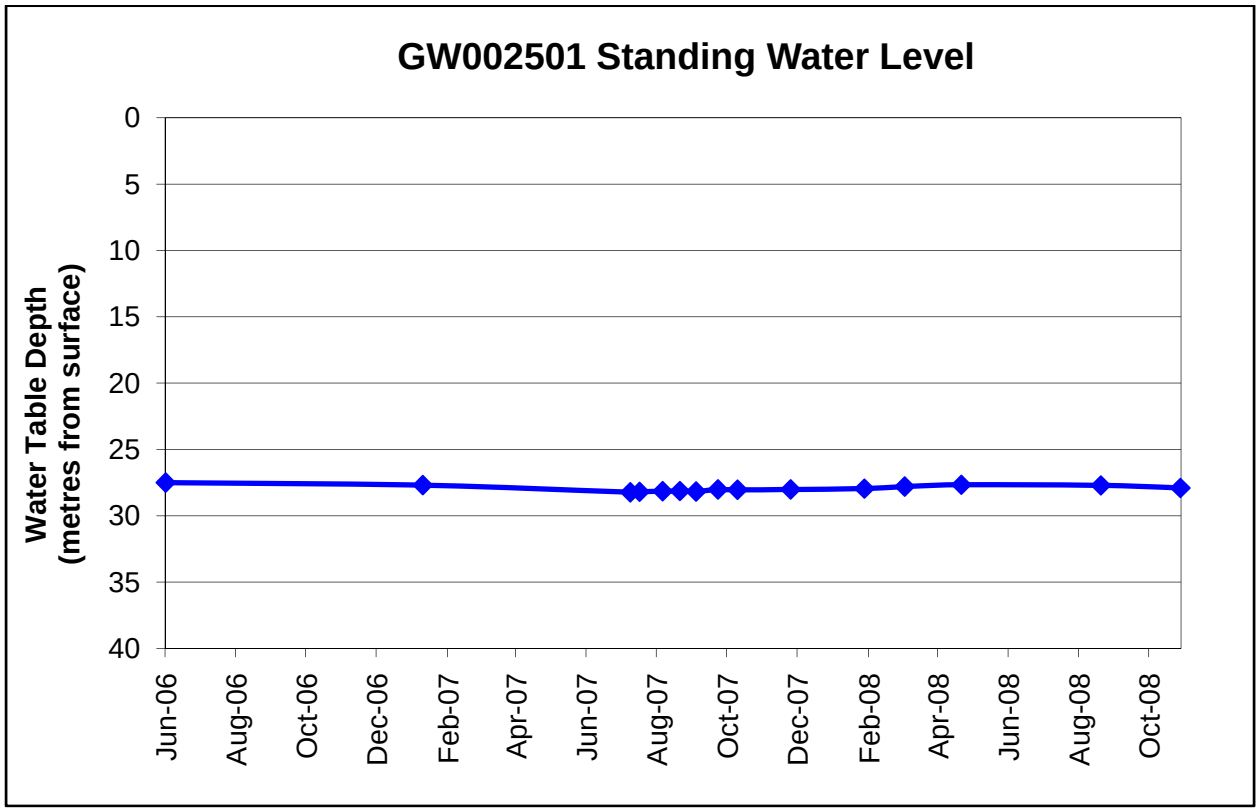

MW5 Standing Water Level
Water Table Depth (metres from surface)
0
2
4
6
8
10
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

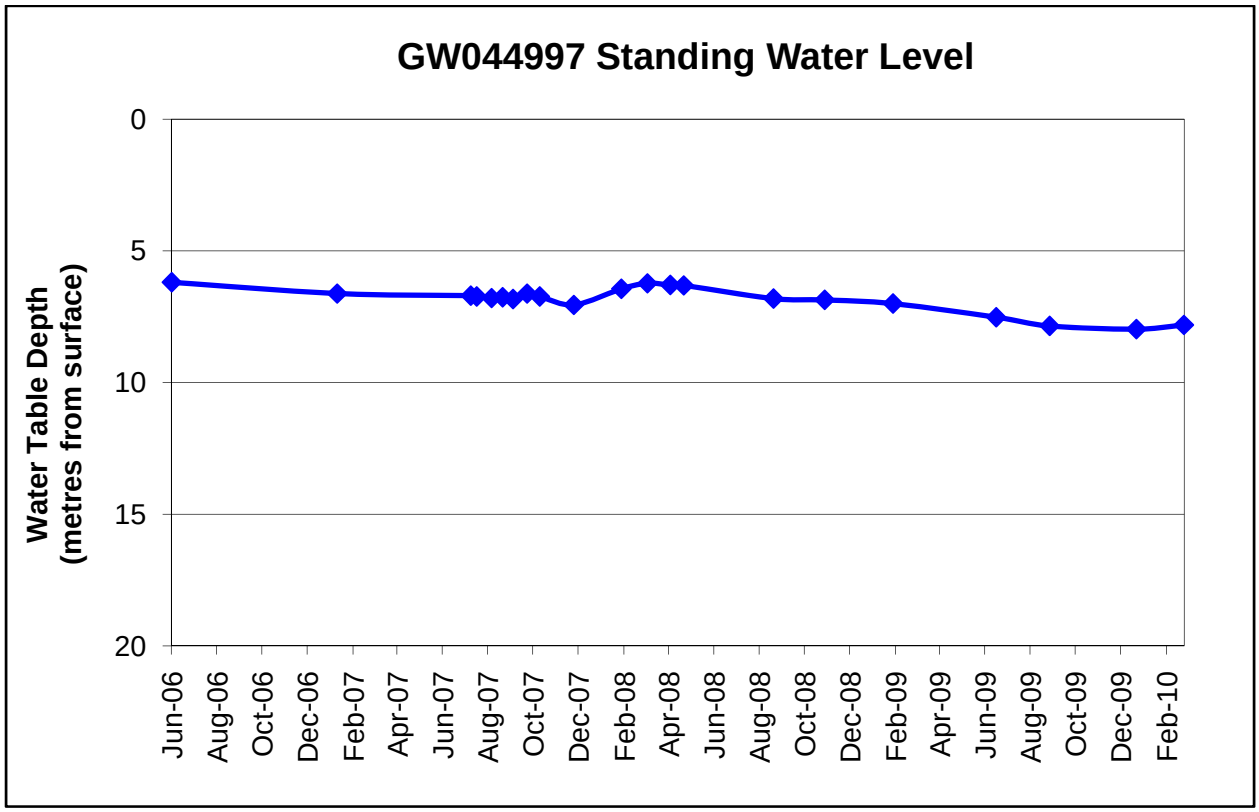

MW6 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

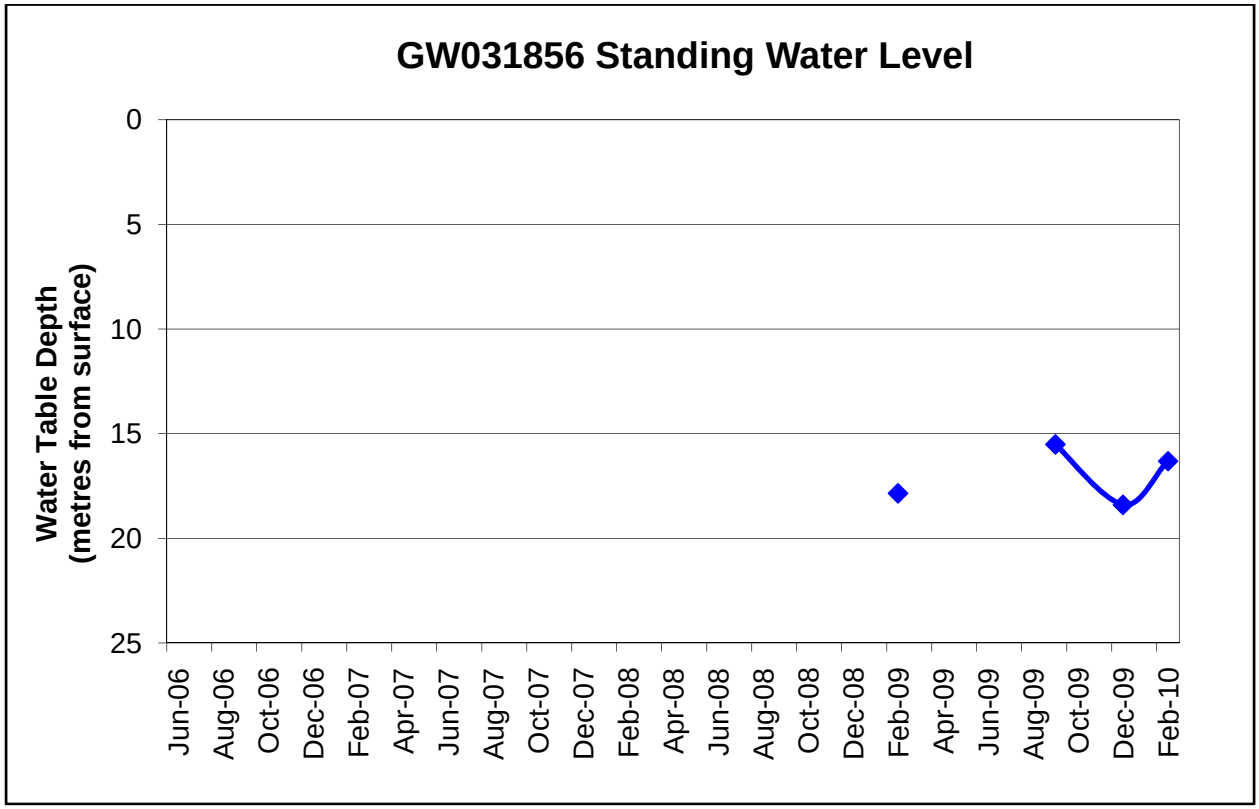

MW7 Standing Water Level
Water Table Depth (metres from surface)
0
10
20
30
40
50
60
70
80
90
100
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

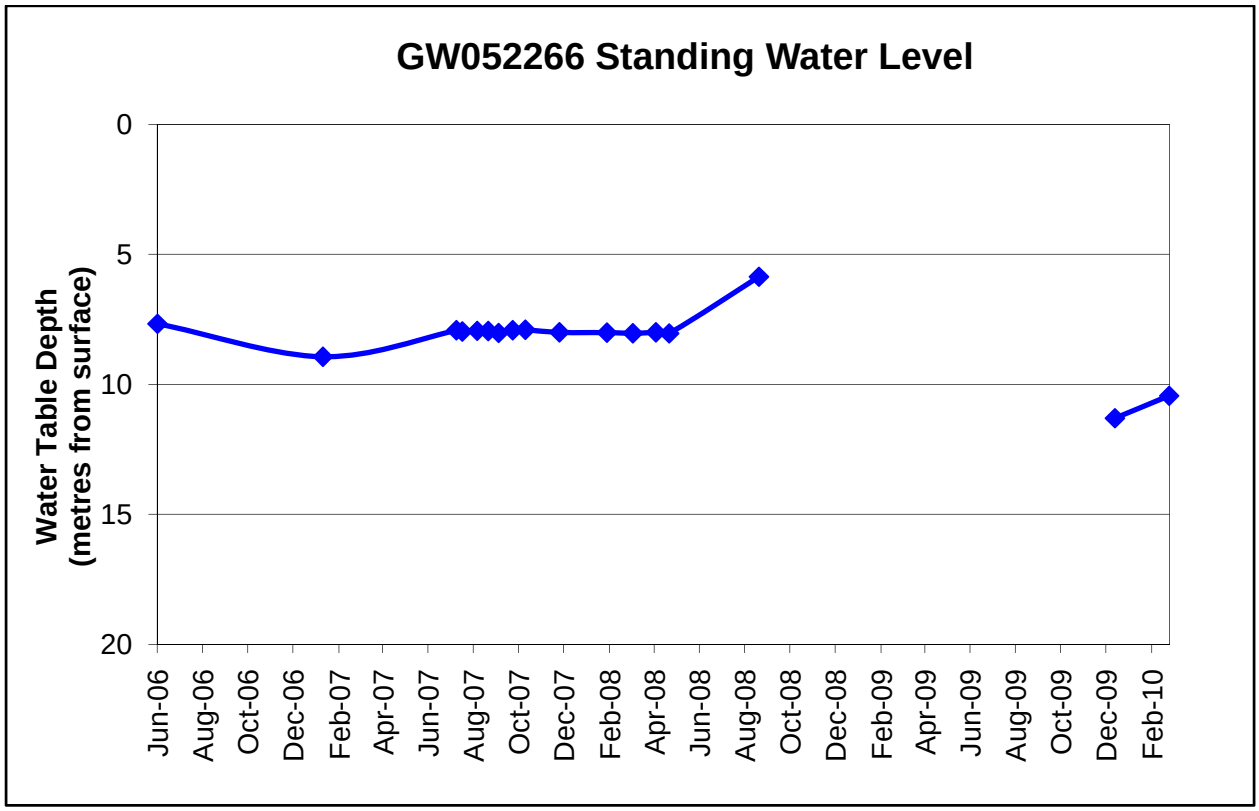

MW8 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10

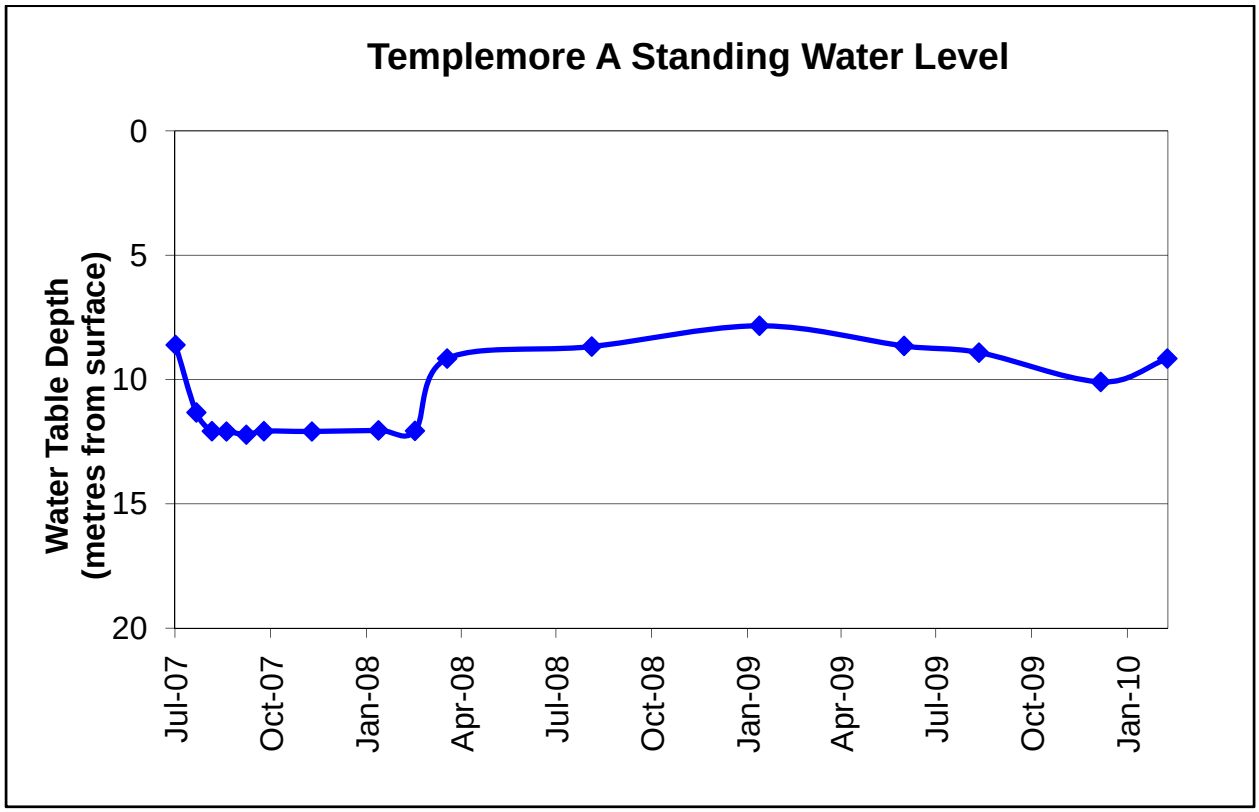

GW002129 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
25
30
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08

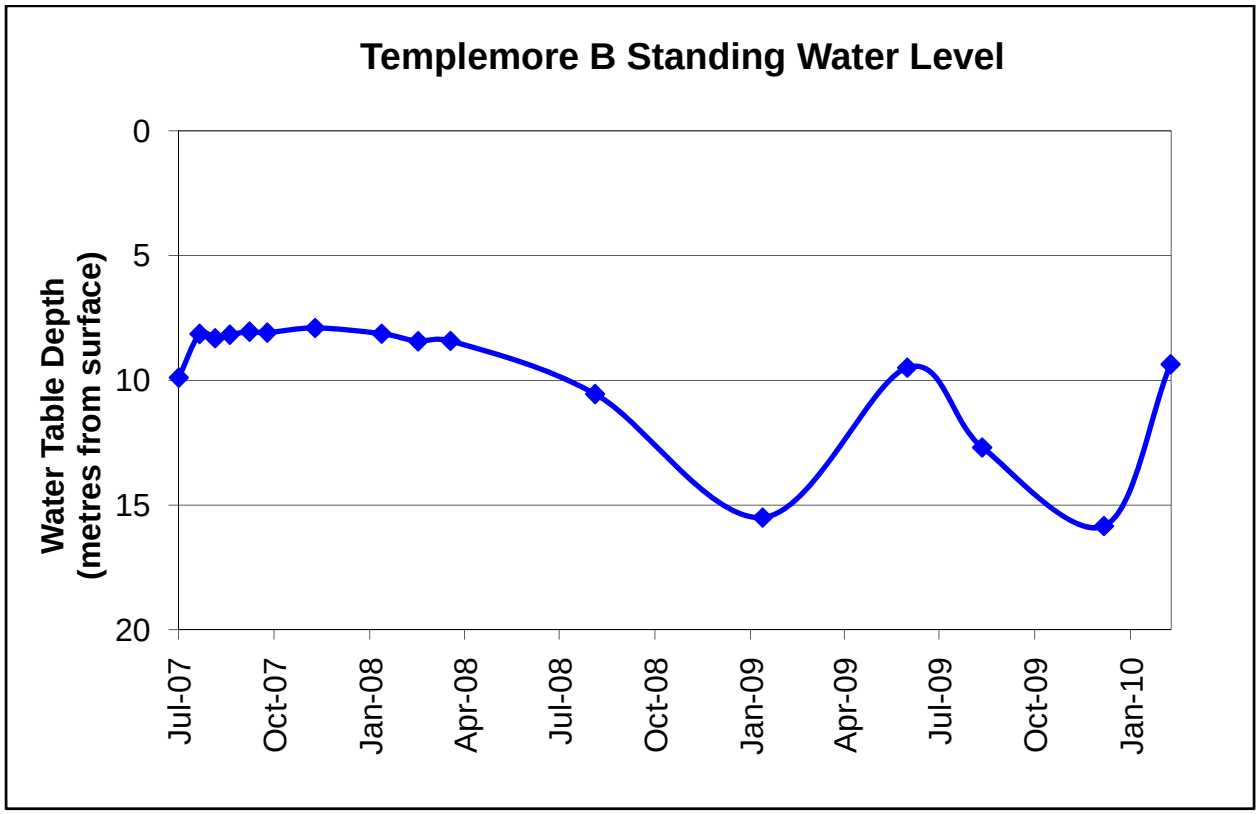

GW002501 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
25
30
35
40
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08


GW044997 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10


GW031856 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
25
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10


GW052266 Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jun-06
Aug-06
Oct-06
Dec-06
Feb-07
Apr-07
Jun-07
Aug-07
Oct-07
Dec-07
Feb-08
Apr-08
Jun-08
Aug-08
Oct-08
Dec-08
Feb-09
Apr-09
Jun-09
Aug-09
Oct-09
Dec-09
Feb-10


Templemore A Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10


Templemore B Standing Water Level
Water Table Depth (metres from surface)
0
5
10
15
20
Jul-07
Oct-07
Jan-08
Apr-08
Jul-08
Oct-08
Jan-09
Apr-09
Jul-09
Oct-09
Jan-10