

Annex F8

Groundwater Monitoring Results

Table F8.1 Groundwater Monitoring Results

Parameters	Units	MWX-1	MWX-2	MWX-3	MWX-4	MWX-5	MWX-6	MWX-7	MWX-8	MWX-9	MWX-10	MWX-11	MWX-12	MWX-13	MWX-14
Water Level	mPD	2.27	2.41	2.3	2.36	2.34	2.43	2.12	2.21	2.36	2.43	2.66	6.19	35.2	40.94
Bicarbonate Alkalinity as CaCO ₃	mg/L	136	333	138	<1	<1	<1	61	<1	85	187	81	59	15	11
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	81	87	128	12	67	2	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	136	333	138	155	163	217	72	104	87	187	81	59	15	11
pH Value	pH Unit	8	7.8	8.1	11.2	11.2	11.3	8.7	10.5	8.4	7.6	8.1	6.8	5.5	5.3
Electrical Conductivity	µS/cm	939	920	945	1160	1330	1310	2900	2720	1460	1700	395	306	95	99
Ammonia as N	mg/L	0.17	0.02	1.45	5.91	3.8	3.95	6.18	11.8	3.29	0.02	0.06	<0.01	0.11	<0.01
Chloride	mg/L	172	34	212	220	211	192	828	697	296	312	33	23	15	18
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.55	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.02	0.01	0.04	<0.01	<0.01
Sulphate as SO ₄ - Turbidimetric	mg/L	65	120	81	52	119	80	41	73	178	216	56	53	3	4
Sulphide as S ₂	mg/L	<0.1	<0.1	<0.1	6.6	4.6	9.9	0.6	6.1	0.8	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.3	0.1	1.7	6.8	4.4	5	6.4	12.3	3.8	0.2	0.2	<0.1	0.2	<0.1
Nitrate as N	mg/L	<0.01	0.88	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.01	<0.01	0.1	0.08
Total Nitrogen as N	mg/L	0.3	1	1.7	6.8	4.4	5	6.4	12.9	3.8	0.2	0.2	<0.1	0.2	0.2
Boron	µg/L	140	220	200	170	180	180	690	470	320	160	70	20	20	20
Calcium	mg/L	48.2	43.8	61.1	51.8	44.5	31.9	31.3	42.1	63.8	124	38	22.4	0.7	0.91
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	8.33	41.9	3.8	<0.05	<0.05	<0.05	14.3	0.05	6.43	11.6	2.23	3.78	0.84	0.9
Sodium	mg/L	119	35	116	140	159	167	513	378	206	192	31.1	23	12.9	14.5
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.07	<0.04	<0.04	0.29	0.11	<0.04
Potassium	mg/L	21.3	9	26.9	36.3	56.6	58.3	50.5	47	36.5	14.5	8.72	2.41	3.32	3.7
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	804	355	777	1	<1	<1	10	<1	35	1850	207	764	122	8
Nickel	µg/L	<1	<1	<1	1	1	2	<1	1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	192	<10	<10	<10	<10	<10	<10	<10	<10	168	<10	18	<10
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	<2	<2	5	<2	<2	<2	2	<2	<2
Chemical Oxygen Demand	mg/L	4	<2	17	38	28	46	11	29	17	9	8	5	5	3
Total Organic Carbon	mg/L	4	4	11	11	9	12	4	11	9	7	4	3	3	3