

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	2.85	2.97	2.94	2.94	2.96	2.88	2.52	2.68	2.86	2.85	3.1	6.69	35.9	41.66
Bicarbonate Alkalinity as CaCO ₃	mg/L	88	253	142	3	8	<1	23	<1	105	213	214	54	17	12
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	54	63	144	41	103	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	88	253	142	57	72	172	64	120	105	213	214	54	17	12
pH Value	pH Unit	8.2	8.2	8.1	10.3	10.4	11.3	9.8	11.1	8.2	8	8.1	7.2	5.7	5.8
Electrical Conductivity	µS/cm	1280	930	1120	960	980	1200	2340	1680	1540	1310	687	310	93	97
Ammonia as N	mg/L	1.24	0.01	1.49	3.5	1.66	3.54	5.98	6.19	0.46	<0.01	0.07	<0.01	<0.01	<0.01
Chloride	mg/L	294	39	192	166	153	187	728	318	268	157	55	21	15	19
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<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	0.01	<0.01	0.01	0.02	0.03	0.08	<0.01	<0.01
Sulphate as SO ₄ - Turbidimetric	mg/L	64	177	93	79	115	92	42	180	220	176	66	59	3	4
Sulphide as S ₂	mg/L	0.1	<0.1	<0.1	4.1	1.6	15	2.2	6.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	1.3	0.2	1.8	4	2.1	4.7	6.9	8.4	1	0.2	0.3	0.1	<0.1	<0.1
Nitrate as N	mg/L	<0.01	0.57	<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.38	<0.01	<0.01	<0.01	0.09	0.1
Total Nitrogen as N	mg/L	1.3	0.8	1.8	4	2.1	4.7	6.9	8.4	1.4	0.2	0.3	0.1	0.2	0.1
Boron	µg/L	120	180	200	200	220	180	630	190	290	400	90	20	20	10
Calcium	mg/L	54.3	57.2	72.9	30.4	12.8	34.2	23.1	46.7	89	87.3	78.3	24	0.8	0.89
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	8.2	55.6	5.02	0.62	<0.05	<0.05	1.28	<0.05	5.74	7.14	5.12	4.13	0.88	0.74
Sodium	mg/L	150	47.9	116	118	136	153	369	230	172	146	43.6	23.9	13.2	13.2
Iron	mg/L	0.07	<0.04	0.09	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.34	<0.04	<0.04
Potassium	mg/L	18.7	11.6	26.7	28	51.3	58.2	52.7	68	32.8	17.5	9.52	3.12	3.99	3.65
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	644	149	923	1	<1	<1	<1	<1	52	135	604	654	21	8
Nickel	µg/L	<1	<1	<1	<1	1	2	<1	4	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Biochemical Oxygen Demand	mg/L	<2	<2	4	4	<2	7	<2	4	4	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	6	<2	18	20	27	37	14	35	20	18	12	5	8	8
Total Organic Carbon	mg/L	2	<1	10	14	16	20	8	22	7	10	8	3	5	5