

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	3.58	3.69	3.79	3.87	3.95	3.83	3.31	3.61	4.36	4.38	5.46	7.28	38.57	45.07
Bicarbonate Alkalinity as CaCO ₃	mg/L	95	210	178	<1	49	<1	<1	<1	60	182	143	59	18	12
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	76	22	134	111	82	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	95	210	178	100	71	200	152	109	60	182	143	59	18	12
pH Value	pH Unit	8.2	8	7.9	10.8	9.4	11.4	11	10.7	8.2	7.7	7.9	7	6.1	5.8
Electrical Conductivity	µS/cm	536	6390	1120	834	828	1360	1380	2480	2400	1280	408	325	96	122
Ammonia as N	mg/L	0.2	1.38	1.29	1.91	0.55	2.79	5.63	9.22	0.97	0.01	0.01	<0.01	0.03	<0.01
Chloride	mg/L	81	1950	176	133	117	197	274	636	520	221	28	21	15	24
Nitrite as N	mg/L	<0.01	0.34	0.01	0.01	<0.01	<0.01	<0.01	0.32	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	<0.01	<0.01	0.04	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01
Sulphate as SO ₄ - Turbidimetric	mg/L	42	310	123	91	135	112	97	116	388	151	30	65	3	5
Sulphide as S ₂	mg/L	0.1	<0.1	<0.1	5.6	0.4	11.3	14.2	9.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.4	1.5	1.6	2.3	1	3.6	6.5	10.2	1.6	0.2	<0.1	<0.1	<0.1	<0.1
Nitrate as N	mg/L	<0.01	0.17	<0.01	<0.01	<0.01	<0.01	0.01	0.07	2.3	<0.01	0.1	<0.01	0.13	0.17
Total Nitrogen as N	mg/L	0.4	2	1.6	2.3	1	3.6	6.6	10.6	4	0.2	0.2	<0.1	0.2	0.2
Boron	µg/L	100	970	220	210	240	180	250	410	640	230	80	30	20	20
Calcium	mg/L	28.1	90	85.3	32.1	14.1	39.7	22.2	42.1	82.6	90.8	46.9	28.5	0.84	1.19
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	4.49	106	5.64	0.28	0.19	<0.05	<0.05	0.09	25.5	9.43	2.58	4.33	0.96	1.2
Sodium	mg/L	53.9	1060	105	104	113	162	196	320	407	133	24.6	23.8	12.6	15.2
Iron	mg/L	0.05	<0.04	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.53	<0.04	<0.04
Potassium	mg/L	12.7	48.7	27.2	28.5	45.8	62.5	51.9	49.4	46.5	11.4	6.76	2.92	3.78	4.25
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	2	<1	<1	<1	2	<1	<1	<1	2	4
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	336	130	854	3	2	<1	<1	<1	50	986	13	778	35	11
Nickel	µg/L	<1	<1	<1	<1	<1	1	2	2	1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	12	<10	<10	<10	<10	<10	<10	<10	11	11	14
Biochemical Oxygen Demand	mg/L	<2	<2	2	<2	<2	6	3	<2	<2	<2	<2	2	<2	<2
Chemical Oxygen Demand	mg/L	10	17	19	21	20	30	43	29	28	8	7	6	6	5
Total Organic Carbon	mg/L	2	<1	6	6	7	9	12	11	8	1	2	1	1	<1