

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	3.07	3.1	3.15	3.27	3.23	3.09	2.91	3.07	3.46	3.34	3.46	6.8	36.3	44.87
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	88	223	188	<1	<1	<1	12	<1	102	183	170	54	16	12
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	90	64	141	51	92	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	88	223	188	108	68	184	63	125	102	183	170	54	16	12
pH Value	pH Unit	8.1	8	7.9	10.9	10.6	11.3	10	11.1	8	7.9	8.1	7	5.7	5.6
Electrical Conductivity	µS/cm	1440	2340	946	848	1170	1230	2330	1760	1520	876	583	309	92	95
Ammonia as N	mg/L	1.4	0.35	0.61	2.98	1.94	3.33	5.73	5.82	0.02	<0.01	0.02	0.02	<0.01	0.03
Chloride	mg/L	326	514	119	150	198	199	642	342	234	97	50	21	14	18
Nitrite as N	mg/L	<0.01	<0.01	0.02	0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	0.02	0.01	0.02	<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 <sub>4</sub> - Turbidimetric	mg/L	66	162	96	75	154	87	48	184	278	106	54	58	3	3
Sulphide as S <sub>2</sub>	mg/L	0.2	<0.1	<0.1	4.4	0.7	5.7	1.6	1.4	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	1.4	0.4	0.8	3.5	2.4	3.9	6.1	7	0.5	0.1	0.1	0.2	0.1	<0.1
Nitrate as N	mg/L	<0.01	0.04	0.19	<0.01	<0.01	<0.01	<0.01	0.02	1.37	<0.01	<0.01	<0.01	0.09	0.12
Total Nitrogen as N	mg/L	1.4	0.5	1	3.5	2.4	3.9	6.1	7	1.8	0.1	0.1	0.2	0.2	0.2
Boron	µg/L	130	380	180	190	240	160	560	190	270	220	110	20	20	10
Calcium	mg/L	51.2	64.4	84	39.4	25.6	35.5	25.4	53.9	117	73.2	64.4	25.7	0.81	0.85
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	11.8	56.7	5.69	0.59	<0.05	<0.05	0.72	<0.05	4.44	5.49	3.37	1.06	0.96	0.88
Sodium	mg/L	191	315	85.2	106	165	160	384	246	168	95.3	45.2	23.5	13	13.6
Iron	mg/L	0.12	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.52	<0.04	<0.04
Potassium	mg/L	22	21.4	25.8	31.4	58.8	61.7	60.2	73.5	36.7	13.2	9.17	3.09	4.13	3.94
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	2	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	1	<1	<1	<1	5	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	610	34	690	1	<1	<1	<1	<1	28	5	319	789	21	8
Nickel	µg/L	<1	<1	<1	<1	1	1	<1	3	<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	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	10	7	14	22	27	39	18	34	24	9	8	7	6	7
Total Organic Carbon	mg/L	4	2	8	6	8	8	4	11	10	7	6	2	3	2