

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	3.38	3.32	3.59	3.63	3.70	2.36	2.27	2.37	2.46	4.72	4.77	5.96	35.15	40.87
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	95	147	163	<1	34	<1	70	<1	52	202	138	56	15	12
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	86	<1	98	6	73	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	95	147	163	123	69	209	76	110	52	202	138	56	15	12
pH Value	pH Unit	8.0	7.9	7.8	11.0	9.6	11.4	8.5	10.7	7.8	7.5	7.7	6.7	5.7	5.6
Electrical Conductivity	µS/cm	459	12600	1070	907	941	1510	3060	1850	2840	1580	566	339	101	106
Ammonia as N	mg/L	0.06	3.46	0.91	2.59	0.70	3.82	5.83	7.41	0.59	0.01	<0.01	0.01	0.03	0.06
Chloride	mg/L	50	4140	144	126	125	185	740	342	486	250	45	22	15	17
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	0.33	<0.01	<0.01	<0.01	1.36	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	0.03	0.02	0.08	<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 <sub>4</sub> - Turbidimetric	mg/L	36	433	102	65	127	89	41	170	558	168	54	58	3	5
Sulphide as S <sub>2</sub>	mg/L	<0.1	<0.1	<0.1	4.4	0.9	8.2	1.4	3.9	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.2	3.5	1.0	2.7	1.0	5.4	6.7	8.7	<10.0	0.1	0.1	0.1	0.1	<0.1
Nitrate as N	mg/L	0.07	0.01	0.77	0.01	0.38	<0.01	<0.01	<0.01	21.6	0.02	0.36	<0.01	0.09	0.05
Total Nitrogen as N	mg/L	0.2	3.6	1.8	2.7	1.7	5.4	6.7	8.7	26.4	0.2	0.5	0.1	0.2	0.1
Boron	µg/L	70	1460	240	200	200	170	710	180	340	310	100	30	20	20
Calcium	mg/L	25.4	144	80	36.6	20.9	54.5	30.5	29.9	200	102	58.6	27	0.77	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	3.25	178.00	4.29	0.11	0.36	<0.05	14.8	<0.05	3.39	8.13	3.46	4.25	0.93	0.84
Sodium	mg/L	46.0	2110.0	100.0	103.0	117.0	161.0	457.0	266.0	316.0	174.0	35.3	24.7	13.4	14.2
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.50	<0.04	<0.04
Potassium	mg/L	12.70	79.90	24.50	27.70	47.60	57.40	46.40	68.70	58.40	17.20	7.90	2.84	3.79	3.64
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	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	334	609	731	2	2	<1	11	<1	66	405	8	771	18	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	28	12	<10	<10	20	56	14
Biochemical Oxygen Demand	mg/L	<2	<2	<2	6	<2	3	<2	<2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	5	<20	12	24	15	44	10	35	32	17	4	<2	<2	<2
Total Organic Carbon	mg/L	4	<10	7	8	8	14	6	13	15	6	6	2	3	3