



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	3.71	3.81	2.94	4.57	4.82	4.41	2.84	N/A ^(a)	5.14	N/A ^(b)	N/A ^(c)	7.19	39.32	46.81
Bicarbonate Alkalinity as CaCO ₃	mg/L	162	223	227	76	70	161	15	92	172	N/A	N/A	60	27	16
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	15	19	67	7	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	162	223	227	76	84	180	82	99	172	N/A	N/A	60	27	16
pH Value	pH Unit	7.9	8	7.9	8	9	8.9	9.7	8.6	7.9	N/A	N/A	7.1	5.8	5.6
Electrical Conductivity	µS/cm	723	7690	1260	1310	600	682	1150	2310	20100	N/A	N/A	311	111	145
Ammonia	mg/L	0.12	1.7	1.39	0.17	0.32	0.27	6.84	3.75	0.44	N/A	N/A	<0.01	0.14	<0.01
Chloride	mg/L	94	2270	181	193	66	50	255	497	6690	N/A	N/A	20	14	22
Nitrite	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	N/A	0.02	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.06	N/A	N/A	0.02	0.04	<0.01
Sulphate	mg/L	52	370	117	195	83	64	81	153	866	N/A	N/A	57	4	10
Sulphide	mg/L	<0.1	<0.1	<0.1	0.5	0.5	4.9	7.8	4.4	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.3	1.8	1.6	0.5	0.7	0.8	9	4.4	0.6	N/A	N/A	0.2	0.2	<0.1
Nitrate	mg/L	<0.01	0.58	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	N/A	N/A	0.07	0.05	0.16
Total Nitrogen	mg/L	0.3	2.4	1.6	0.5	0.7	0.8	9	4.4	0.6	N/A	N/A	0.2	0.3	0.2
Boron	µg/L	150	900	220	360	210	200	260	230	2840	N/A	N/A	50	20	20
Calcium	mg/L	45.2	94.3	101	56	16.9	10.8	11.8	79.2	190	N/A	N/A	23.5	1.51	2.72
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	N/A	N/A	<0.20	<0.20	<0.20
Magnesium	mg/L	7.63	131	8.19	2.6	0.59	1.19	1.55	2.08	360	N/A	N/A	4.67	1.6	1.52

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
Sodium	mg/L	68.4	1130	113	163	73	80.5	164	306	3120	N/A	N/A	27	12.9	15.8
Iron	mg/L	<0.04	<0.04	0.06	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	<0.04	1.15	<0.04
Potassium	mg/L	19.5	62.4	27.6	29.6	34.6	63.2	38.6	59.4	184	N/A	N/A	5.29	3.69	4.26
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N/A	N/A	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	2	1	1	<1	<1	N/A	N/A	<1	<1	2
Lead	µg/L	<1	<1	<1	<1	<1	1	2	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	326	387	1180	140	12	18	8	64	534	N/A	N/A	488	339	9
Nickel	µg/L	<1	<1	<1	<1	<1	<1	2	2	<1	N/A	N/A	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	58	<10	<10	<10	N/A	N/A	19	16	24
Biochemical Oxygen Demand	mg/L	<2	<2	2	2	2	3	8	6	2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	22	19	19	16	22	54	32	<20	N/A	N/A	<2	14	<2
Total Organic Carbon	mg/L	5	4	9	7	7	8	17	10	<5	N/A	N/A	1	2	<1

Note:

- (a) The water level of Monitoring well MWX-8 could not be measured due to thick grass layer.
- (b) Monitoring well MWX-10 is under maintenance.
- (c) Monitoring well MWX-11 is not accessible due to the safety considerations.