



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	3.74	3.77	4.12	3.91	3.84	N/A ^(a)	4.54	N/A ^(b)	N/A ^(c)	7.39	38.92	47.21
Bicarbonate Alkalinity as CaCO ₃	mg/L	170	280	204	93	86	193	<1	<1	164	N/A	N/A	58	27	10
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	6	9	89	90	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	170	280	204	93	92	202	110	109	164	N/A	N/A	58	27	10
pH Value	pH Unit	7.8	7.9	7.9	8	8.6	8.6	10.6	10.8	8	N/A	N/A	7	6.1	5.6
Electrical Conductivity	µS/cm	817	1680	1110	1120	593	743	1190	2040	18200	N/A	N/A	319	108	135
Ammonia	mg/L	0.2	0.11	1.63	0.12	0.27	0.44	7.43	4.15	0.44	N/A	N/A	0.06	0.03	0.01
Chloride	mg/L	133	223	164	172	74	73	250	483	6060	N/A	N/A	20	15	27
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.08	<0.01	<0.01	N/A	N/A	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.01	0.01	0.01	<0.01	<0.01	<0.01	<0.01	0.05	N/A	N/A	0.02	0.02	<0.01
Sulphate	mg/L	44	348	89	182	76	55	116	176	884	N/A	N/A	60	2	6
Sulphide	mg/L	<0.1	<0.1	0.1	1.2	0.7	6.1	12.6	6.3	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.4	<1.0	1.6	0.4	0.5	0.8	8.1	4.3	0.5	N/A	N/A	<0.1	<0.1	<0.1
Nitrate	mg/L	<0.01	1.92	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	N/A	N/A	0.01	0.03	0.18
Total Nitrogen	mg/L	0.4	2.4	1.6	0.4	0.5	0.8	8.2	4.3	0.5	N/A	N/A	<0.1	<0.1	0.3
Boron	µg/L	190	460	240	400	230	220	280	240	2590	N/A	N/A	40	20	20
Calcium	mg/L	46	106	84.4	62.7	18	15.9	16.8	49.8	176	N/A	N/A	24.7	2.08	1.22
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	8.82	58.1	6.3	2.69	0.63	1.64	0.3	0.2	323	N/A	N/A	4.33	1.2	1.44

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Sodium	mg/L	91.3	142	108	137	72.5	90.9	177	286	2870	N/A	N/A	24.1	12.3	18.5
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	<0.04	0.74	<0.04
Potassium	mg/L	19.2	26.1	25.6	28.9	33.8	72	50.2	60.8	162	N/A	N/A	3.43	3.54	4.79
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	3	<1	2	N/A	N/A	<1	<1	3
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	220	157	806	75	9	21	1	<1	476	N/A	N/A	49	242	14
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	<10	<10	<10	12	N/A	N/A	90	17	24
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	3	5	2	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	6	4	15	15	12	20	52	29	<20	N/A	N/A	4	4	7
Total Organic Carbon	mg/L	4	2	6	5	5	6	14	9	<5	N/A	N/A	2	2	4

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.