



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	2.71	2.91	2.94	2.67	N/A ^(a)	2.61	2.64	N/A ^(a)	N/A ^(a)	N/A ^(b)	3.37	5.99	38.02	41.41
Bicarbonate Alkalinity as CaCO ₃	mg/L	149	287	210	128	<1	<1	87	74	208	N/A	149	60	15	12
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	109	138	<1	20	<1	N/A	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	149	287	210	128	122	159	87	94	208	N/A	149	60	15	12
pH Value	pH Unit	7.6	7.9	7.8	8.1	10.9	11.7	8.1	8.8	7.9	N/A	7.9	7.2	5.8	5.7
Electrical Conductivity	µS/cm	1620	1020	859	814	1120	1010	1120	2770	1200	N/A	1560	286	94	102
Ammonia	mg/L	0.27	0.04	0.76	1.69	3.16	3.68	0.22	12	0.12	N/A	0.08	<0.01	0.03	0.01
Chloride	mg/L	388	68	116	116	217	178	168	849	126	N/A	376	20	14	18
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.27	<0.01	<0.01	N/A	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.02	0.02	0.01	0.01	<0.01	<0.01	0.01	0.01	N/A	0.02	0.03	0.01	<0.01
Sulphate	mg/L	71	155	58	96	81	70	190	64	301	N/A	68	49	3	5
Sulphide	mg/L	<0.1	<0.1	<0.1	1.5	9.8	16	<0.1	11.3	<0.1	N/A	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.4	0.2	1.1	1.7	3.5	4.4	<1.0	12	0.5	N/A	0.1	0.1	<0.1	<0.1
Nitrate	mg/L	<0.01	0.79	<0.01	<0.01	<0.01	<0.01	1.86	<0.01	<0.01	N/A	<0.01	<0.01	0.03	0.07
Total Nitrogen	mg/L	0.4	1	1.1	1.7	3.5	4.4	3	12	0.5	N/A	0.1	0.1	0.1	0.1
Boron	µg/L	250	400	160	160	200	170	230	440	560	N/A	120	30	10	10
Calcium	mg/L	65.7	68.4	72.6	57.2	26.5	27.4	71.4	62.8	117	N/A	84.7	21.5	0.84	0.96
Mercury	µg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	N/A	<0.20	<0.20	<0.20	<0.20
Magnesium	mg/L	15.5	47.8	5.2	3.29	<0.05	<0.05	5.76	1.18	7.35	N/A	8.75	3.6	0.98	0.82

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	184	61.4	59.7	67.8	139	121	104	366	117	N/A	182	21.5	12	13.5
Iron	mg/L	<0.04	<0.04	0.12	<0.04	<0.04	<0.04	<0.04	<0.04	0.14	N/A	<0.04	0.25	<0.04	<0.04
Potassium	mg/L	18.8	14.7	17.6	19.2	43.9	41.5	35.6	48.4	26.4	N/A	8.24	2.39	3.31	3.16
Cadmium	µg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	N/A	<0.2	<0.2	<0.2	<0.2
Chromium	µg/L	<1	<1	<1	<1	<1	<1	1	<1	<1	N/A	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	3	<1	1	N/A	<1	<1	1	5
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	<1	<1	<1	<1
Manganese	µg/L	1110	349	447	23	<1	<1	3	9	173	N/A	741	547	40	9
Nickel	µg/L	<1	<1	<1	<1	1	1	<1	<1	<1	N/A	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	N/A	<10	12	<10	29
Biochemical Oxygen Demand	mg/L	<2	<2	<2	4	4	10	<2	9	<2	N/A	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	5	4	18	20	34	44	19	45	24	N/A	4	<2	3	2
Total Organic Carbon	mg/L	<1	2	2	7	8	11	7	14	12	N/A	<1	<1	1	1

Note:

- (a) The water level of Monitoring well MWX-5, MWX-8 and MWX-9 could not be measured due to thick grass layer.
- (b) Monitoring well MWX-10 is under maintenance.