



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	3.62	3.64	3.6	3.55	4	4.08	3.78	3.84	4.76	N/A ^(a)	N/A ^(b)	6.89	38.4	46.77
Bicarbonate Alkalinity as CaCO ₃	mg/L	166	266	246	67	92	<1	184	10	164	N/A	N/A	56	16	11
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	9	140	<1	74	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	166	266	246	67	102	180	184	84	164	N/A	N/A	56	16	11
pH Value	pH Unit	7.8	7.8	7.7	8	8.8	11	8	10.3	8	N/A	N/A	6.9	5.6	5.3
Electrical Conductivity	µS/cm	687	1330	1090	1280	598	974	529	1600	18400	N/A	N/A	334	92	137
Ammonia	mg/L	0.05	0.05	0.98	0.19	0.29	2.49	0.16	3.88	0.44	N/A	N/A	<0.01	<0.01	<0.01
Chloride	mg/L	90	124	155	231	62	118	39	333	6460	N/A	N/A	20	14	27
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	N/A	N/A	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.02	0.02	0.02	0.01	<0.01	0.02	<0.01	0.06	N/A	N/A	0.04	0.01	<0.01
Sulphate	mg/L	46	248	98	198	79	67	31	185	918	N/A	N/A	62	3	7
Sulphide	mg/L	<0.1	<0.1	<0.1	<0.1	0.7	4.3	1.2	3.3	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	0.3	1.3	0.5	0.6	3.1	0.3	4.4	0.5	N/A	N/A	<0.1	0.1	<0.1
Nitrate	mg/L	0.11	2.34	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	N/A	N/A	<0.01	0.13	0.24
Total Nitrogen	mg/L	0.3	2.7	1.4	0.5	0.6	3.1	0.3	4.4	0.5	N/A	N/A	<0.1	0.2	0.3
Boron	µg/L	140	360	220	410	260	280	170	240	2940	N/A	N/A	60	20	20
Calcium	mg/L	47.4	98.1	102	67.1	15.2	12.2	67.5	33.5	155	N/A	N/A	27.4	0.83	1.46
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	8.95	52	7.72	2.63	0.51	<0.05	4.69	0.37	337	N/A	N/A	4.66	0.99	1.58

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	75.2	95.8	97.7	170	84.3	136	31.9	243	3050	N/A	N/A	24.5	13.6	19.4
Iron	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.09	<0.04	<0.04	N/A	N/A	0.19	<0.04	<0.04
Potassium	mg/L	19.2	22.3	25.1	31.8	38.7	53.2	13.3	63.6	161	N/A	N/A	3.16	3.99	5.06
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	2	4	<1	1	1	6	<1	<1	N/A	N/A	2	2	3
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	282	54	806	23	8	<1	412	24	339	N/A	N/A	711	25	14
Nickel	µg/L	<1	<1	<1	<1	<1	1	<1	2	<1	N/A	N/A	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	22	<10	<10	N/A	N/A	19	15	16
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	<2	3	2	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	6	3	16	16	14	34	12	33	<20	N/A	N/A	3	3	4
Total Organic Carbon	mg/L	3	<1	7	5	5	8	3	11	<5	N/A	N/A	2	<1	2

Note:

- (a) Monitoring well MWX-10 is under maintenance.
- (b) Monitoring well MWX-11 is not accessible due to the landscape reparation work.