



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	2.61	2.81	2.84	2.67	2.72	2.61	3.24	N/A ^(a)	3.04	N/A ^(b)	N/A ^(c)	6.59	N/A ^(b)	45.11
Bicarbonate Alkalinity as CaCO ₃	mg/L	169	302	165	131	<1	<1	<1	109	169	N/A	N/A	<1	N/A	<1
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	113	158	76	<1	<1	N/A	N/A	57	N/A	10
Total Alkalinity as CaCO ₃	mg/L	169	302	165	131	116	179	98	118	169	N/A	N/A	6.9	N/A	5.4
pH Value	pH Unit	7.7	7.8	7.7	7.8	10.6	11	10.8	8.5	7.9	N/A	N/A	303	N/A	104
Electrical Conductivity	µS/cm	984	1210	1180	760	772	977	1340	3040	20400	N/A	N/A	<0.01	N/A	<0.01
Ammonia	mg/L	0.08	0.16	1.29	0.9	1.14	3.33	4.67	8.45	0.54	N/A	N/A	20	N/A	21
Chloride	mg/L	181	59	230	114	104	153	229	849	6680	N/A	N/A	<0.01	N/A	<0.01
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	N/A	N/A	0.03	N/A	<0.01
Phosphorus	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	N/A	N/A	54	N/A	2
Sulphate	mg/L	41	234	57	57	60	47	145	108	968	N/A	N/A	<0.1	N/A	<0.1
Sulphide	mg/L	<0.1	<0.1	0.1	2.8	6.5	22.1	<0.1	<0.1	<0.1	N/A	N/A	<0.1	N/A	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	1.7	1.7	1.2	1.7	4.4	5.9	10.2	0.6	N/A	N/A	<0.01	N/A	0.1
Nitrate	mg/L	<0.01	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	N/A	N/A	<0.1	N/A	0.2
Total Nitrogen	mg/L	0.2	1.9	1.7	1.2	1.7	4.4	5.9	10.2	0.6	N/A	N/A	30	N/A	10
Boron	µg/L	180	410	220	200	190	190	260	320	2810	N/A	N/A	24.4	N/A	0.99
Calcium	mg/L	51	81.7	66.3	46.7	7.38	7.73	20.8	84.2	180	N/A	N/A	<0.20	N/A	<0.20
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	4.35	N/A	1.05
Magnesium	mg/L	10.1	61.7	4.86	1.13	0.09	0.07	<0.05	0.12	363	N/A	N/A	24.6	N/A	14.6

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	111	67.9	126	83.1	108	139	198	407	3160	N/A	N/A	<0.04	N/A	<0.04
Iron	mg/L	0.05	<0.04	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	3.28	N/A	3.98
Potassium	mg/L	18.4	19.8	28.6	18	44.1	51.7	51.5	73	186	N/A	N/A	<0.2	N/A	<0.2
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	<1	N/A	<1
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	N/A	N/A	<1	N/A	1
Copper	µg/L	<1	<1	<1	<1	<1	<1	2	1	<1	N/A	N/A	<1	N/A	<1
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	N/A	N/A	7	N/A	9
Manganese	µg/L	316	407	673	34	<1	<1	<1	13	424	N/A	N/A	<1	N/A	<1
Nickel	µg/L	<1	<1	<1	<1	<1	2	1	1	<1	N/A	N/A	<10	N/A	15
Zinc	µg/L	<10	<10	<10	19	<10	<10	<10	<10	<10	N/A	N/A	<2	N/A	<2
Biochemical Oxygen Demand	mg/L	<2	<2	<2	4	2	11	<2	7	<2	N/A	N/A	3	N/A	<2
Chemical Oxygen Demand	mg/L	5	5	20	16	24	56	38	37	30	N/A	N/A	<1	N/A	<1
Total Organic Carbon	mg/L	2	3	8	6	7	15	16	10	<5	N/A	N/A	57	N/A	10

Note:

- (a) The water level of Monitoring well MWX-8 could not be measured due to thick grass layer.
- (b) Monitoring well MWX-10 and MWX-13 are under maintenance.
- (c) Monitoring well MWX-11 is not accessible due to the safety considerations.