



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	3.03	2.97	3.22	3.74	3.3	3.44	2.97	N/A ^(a)	3.41	N/A ^(b)	N/A ^(c)	6.86	36.18	44.29
Bicarbonate Alkalinity as CaCO ₃	mg/L	156	290	140	<1	90	<1	<1	34	159	N/A	N/A	56	14	10
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	80	5	134	96	13	<1	N/A	N/A	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	156	290	140	90	96	173	118	47	159	N/A	N/A	56	14	10
pH Value	pH Unit	7.8	7.9	7.9	10.6	8.6	11.1	10.8	9.2	8	N/A	N/A	6.9	5.6	5.5
Electrical Conductivity	µS/cm	1020	1120	1140	617	791	1080	1260	1780	21300	N/A	N/A	300	92	97
Ammonia	mg/L	<0.01	0.06	1.47	2.87	0.48	3.49	4.91	4.18	0.38	N/A	N/A	<0.01	<0.01	<0.01
Chloride	mg/L	198	46	221	100	117	152	228	398	6920	N/A	N/A	19	14	18
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	0.01	0.02	0.01	<0.01	<0.01	<0.01	<0.01	0.07	N/A	N/A	0.04	<0.01	<0.01
Sulphate	mg/L	57	265	84	57	88	75	143	139	1070	N/A	N/A	59	3	3
Sulphide	mg/L	<0.1	<0.1	0.1	4	0.4	12.3	5.9	4.3	<0.1	N/A	N/A	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.1	0.3	1.7	2.9	0.8	4	6.2	5.1	0.7	N/A	N/A	<0.1	<0.1	<0.1
Nitrate	mg/L	0.09	2.92	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	N/A	N/A	<0.01	0.08	0.12
Total Nitrogen	mg/L	0.2	3.2	1.7	2.9	0.8	4	6.2	5.1	0.7	N/A	N/A	<0.1	0.1	0.2
Boron	µg/L	230	380	250	220	240	200	270	230	3350	N/A	N/A	30	20	10
Calcium	mg/L	47.8	86.9	69.2	20	14.1	19.8	14	20.4	180	N/A	N/A	23	0.75	0.83
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	11.1	55.5	4.61	0.09	0.54	<0.05	<0.05	0.06	397	N/A	N/A	3.97	0.92	0.81

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Sodium	mg/L	112	57.5	120	79.6	106	140	186	262	3470	N/A	N/A	23.6	12.2	12.8
Iron	mg/L	<0.04	<0.04	0.13	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	N/A	N/A	0.36	<0.04	<0.04
Potassium	mg/L	17.6	19	27.3	19.8	45.5	52.1	53	64	175	N/A	N/A	2.94	3.74	3.47
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	<1	1	<1	<1	<1	N/A	N/A	<1	3	2
Lead	µg/L	<1	<1	<1	<1	<1	1	<1	<1	<1	N/A	N/A	<1	<1	<1
Manganese	µg/L	232	212	769	<1	4	<1	<1	<1	374	N/A	N/A	672	20	7
Nickel	µg/L	<1	<1	<1	<1	<1	2	2	3	<1	N/A	N/A	<1	<1	<1
Zinc	µg/L	<10	<10	104	<10	<10	<10	<10	<10	<10	N/A	N/A	17	14	10
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	6	2	2	<2	N/A	N/A	<2	<2	<2
Chemical Oxygen Demand	mg/L	5	5	21	19	16	42	48	33	<20	N/A	N/A	5	3	4
Total Organic Carbon	mg/L	3	3	8	7	7	11	15	11	<5	N/A	N/A	2	2	2

Note:

- (a) The dip 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.