



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 ^(a)
Water Level	mPD	2.97	2.97	2.92	3.13	2.42	2.69	2.58	2.82	3.61	3.26	3.5	6.8	36.9	N/A
Bicarbonate Alkalinity as CaCO ₃	mg/L	168	208	233	186	<1	<1	84	<1	157	207	232	58	14	N/A
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	<1	53	117	10	73	<1	<1	<1	<1	<1	N/A
Total Alkalinity as CaCO ₃	mg/L	168	208	233	186	79	184	94	112	157	207	232	58	14	N/A
pH Value	pH Unit	7.6	7.9	7.7	8	10.5	11.3	8.6	10.7	7.9	7.7	8	6.7	5.6	N/A
Electrical Conductivity	µS/cm	1540	4820	780	899	1740	1270	2160	3650	1120	1110	697	302	93	N/A
Ammonia	mg/L	0.29	1.05	0.05	0.09	6.59	3.92	4.66	14.5	0.02	0.01	0.03	0.04	0.03	N/A
Chloride	mg/L	346	1380	56	96	428	198	618	1070	145	150	45	20	14	N/A
Nitrite	mg/L	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	N/A
Phosphorus	mg/L	<0.01	0.01	0.02	<0.01	<0.01	<0.01	0.03	<0.01	0.02	0.02	<0.01	0.02	0.01	N/A
Sulphate	mg/L	75	262	84	129	129	89	45	40	224	117	67	60	3	N/A
Sulphide	mg/L	<0.1	<0.1	<0.1	<0.1	5.5	7.3	1.6	10.9	<0.1	<0.1	<0.1	<0.1	<0.1	N/A
Total Kjeldahl Nitrogen	mg/L	0.4	1	0.3	0.4	9.3	4.4	5.9	15.4	0.4	0.2	0.2	0.1	0.1	N/A
Nitrate	mg/L	0.01	0.17	0.32	0.04	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.24	0.04	0.12	N/A
Total Nitrogen	mg/L	220	700	160	170	220	160	690	500	260	280	100	0.2	0.2	N/A
Boron	µg/L	68.9	84.1	92.8	98.6	35.1	38.1	22.9	88	113	90.9	88.6	20	10	N/A
Calcium	mg/L	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	24.8	0.82	N/A
Mercury	µg/L	14.2	85.3	6.27	6.74	0.41	<0.05	11.3	0.14	5.64	8.9	5.6	<0.20	<0.20	N/A
Magnesium	mg/L	193	734	47.8	65.2	248	152	342	585	99.4	120	46.2	4	0.95	N/A

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 ^(a)
Sodium	mg/L	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	24.2	13	N/A
Iron	mg/L	24.2	42.8	18	17.3	63.7	56.8	40.5	61.9	20.1	15.6	8.51	<0.04	<0.04	N/A
Potassium	mg/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	3.3	3.77	N/A
Cadmium	µg/L	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<0.2	<0.2	N/A
Chromium	µg/L	<1	<1	3	2	<1	<1	<1	<1	4	2	2	<1	<1	N/A
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	4	N/A
Lead	µg/L	1660	242	52	12	<1	<1	4	<1	4	984	300	<1	<1	N/A
Manganese	µg/L	<1	<1	<1	<1	2	2	<1	<1	<1	<1	<1	620	16	N/A
Nickel	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<1	<1	N/A
Zinc	µg/L	220	700	160	170	220	160	690	500	260	280	100	16	306	N/A
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	<2	7	<2	13	<2	<2	<2	<2	<2	N/A
Chemical Oxygen Demand	mg/L	11	21	14	15	42	47	12	49	22	10	7	3	3	N/A
Total Organic Carbon	mg/L	3	3	5	6	9	8	2	8	8	3	4	1	1	N/A

Note:

(a) MWX-14 is not accessible due to safety considerations.