



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	3.01	2.74	2.87	3.22	4.11	2.44	2.66	2.84	3.23	3.27	6.69	36.12	43.71
Bicarbonate Alkalinity as CaCO ₃	mg/L	168	268	146	<1	<1	<1	37	<1	164	202	162	56	17	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	60	102	133	37	84	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	168	268	146	61	145	178	74	125	164	202	162	56	17	13
pH Value	pH Unit	7.9	8	8	10.1	11.1	11.2	9.3	10.9	8	7.9	8	6.8	5.7	5.6
Electrical Conductivity	µS/cm	1220	1010	1100	823	1170	1170	2180	3660	15800	788	410	300	93	101
Ammonia	mg/L	0.03	0.01	1.48	3.58	2.31	3.86	5.74	15	0.46	0.03	0.06	<0.01	<0.01	<0.01
Chloride	mg/L	252	40	212	165	201	204	621	1250	5090	96	26	20	15	19
Nitrite	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	0.02	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.05	0.02	<0.01	0.04	0.01	<0.01
Sulphate	mg/L	76	231	81	78	104	87	48	53	878	67	14	58	3	3
Sulphide	mg/L	<0.1	<0.1	<0.1	4.5	8.2	14.5	2	16	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.1	<1.0	1.8	3.9	3	5	6.1	15.3	0.7	<0.1	0.2	<0.1	<0.1	<0.1
Nitrate	mg/L	0.01	5.39	0.01	<0.01	<0.01	0.01	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.1	0.13
Total Nitrogen	mg/L	180	220	200	200	180	170	590	420	2530	170	70	30	20	20
Boron	µg/L	78.6	87.6	85.4	29.1	41.3	35.9	26	125	155	82.1	53.2	27.2	0.95	1.27
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	<0.20	<0.20	<0.20
Mercury	µg/L	12.6	61.5	5.73	0.16	<0.05	<0.05	4.35	<0.05	266	7.29	3.2	4.3	1.04	0.94
Magnesium	mg/L	143	57.6	124	120	157	162	393	614	2450	80.2	26.4	23.8	12.9	13.6
Sodium	mg/L	0.06	<0.04	0.08	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.45	<0.04	<0.04

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
Iron	mg/L	24.2	16.5	30.6	29	62.4	61.8	57.2	77.2	119	11.2	7.33	3.08	4.15	3.91
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	<0.2	<0.2	<0.2
Cadmium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Chromium	µg/L	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2	2
Copper	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Lead	µg/L	411	172	908	2	<1	<1	<1	<1	236	1360	446	699	12	7
Manganese	µg/L	<1	<1	<1	<1	1	2	<1	1	<1	<1	<1	<1	<1	<1
Nickel	µg/L	<10	<10	<10	<10	<10	<10	15	<10	<10	<10	<10	23	43	18
Zinc	µg/L	180	220	200	200	180	170	590	420	2530	170	70	30	20	20
Biochemical Oxygen Demand	mg/L	<2	<2	<2	2	5	10	<2	7	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	8	4	18	23	28	49	15	50	<20	4	3	<2	<2	<2
Total Organic Carbon	mg/L	5	2	8	6	5	7	2	9	<1	1	2	1	1	<1