

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	2.81	2.91	2.67	2.85	2.66	2.36	2.61	2.28	2.16	2.75	6.33	35.38	39.36
Bicarbonate Alkalinity as CaCO ₃	mg/L	155	256	113	<1	<1	<1	34	<1	131	214	235	55	17	16
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	62	52	120	26	79	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	155	256	113	96	76	202	61	129	131	214	235	55	17	16
pH Value	pH Unit	7.8	8	8	10.7	10.7	11.3	9.3	10.9	8.3	7.9	8	7	5.6	5.8
Electrical Conductivity	µS/cm	982	874	1090	1130	1430	1340	2240	2920	786	727	694	298	93	107
Ammonia	mg/L	0.26	<0.01	1.74	6.17	2.61	4.23	3.25	13.8	1.27	0.02	0.17	0.01	0.02	0.03
Chloride	mg/L	166	40	217	238	320	206	535	821	133	81	53	21	14	18
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	2.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.04	0.02	0.02	0.04	0.01	<0.01
Sulphate	mg/L	61	132	78	63	120	96	62	90	46	43	48	48	3	5
Sulphide	mg/L	<0.1	<0.1	0.2	10	8	27.8	1.2	25.2	1.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.4	<0.1	2.2	6.7	3.5	4.8	3.3	13.8	1.5	0.1	0.4	0.1	<0.1	0.1
Nitrate	mg/L	0.07	0.41	0.01	<0.01	<0.01	0.02	0.65	<0.01	<0.01	0.01	<0.01	0.01	0.1	0.07
Total Nitrogen	mg/L	0.4	0.5	2.2	6.7	3.5	4.9	6.7	13.8	1.5	0.1	0.4	0.1	0.2	0.2
Boron	µg/L	140	180	220	190	190	180	400	430	320	80	80	20	10	10
Calcium	mg/L	57.6	59.4	60.9	40.5	35.2	36.1	17.3	80.4	42.3	80.3	81.1	24.7	0.82	1.01
Mercury	µg/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
Magnesium	mg/L	8.5	49.4	3.44	<0.05	<0.05	<0.05	1.6	<0.05	6.22	7.26	6.29	3.78	0.94	0.8
Sodium	mg/L	108	45.1	123	138	185	157	286	415	90.9	43.7	49.7	23.9	13.3	13.5
Iron	mg/L	<0.04	<0.04	0.09	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.04	0.29	<0.04	<0.04
Potassium	mg/L	18.8	10.5	26	31.4	53.1	54	54.6	69	15.2	7.05	8.72	2.9	3.89	3.56
Cadmium	µg/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
Chromium	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Copper	µg/L	<1	<1	<1	<1	<1	<1	1	<1	<1	1	<1	<1	1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	1220	197	633	<1	<1	<1	<1	<1	126	1130	759	590	12	8
Nickel	µg/L	<1	<1	<1	1	<1	2	1	2	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	15	<10	<10	11	13
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	2	3	<2	<2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	11	6	19	34	30	48	30	42	10	8	8	12	5	5
Total Organic Carbon	mg/L	6	6	6	9	6	10	6	13	5	5	5	4	3	2