

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	3.11	3.51	3.24	3.27	3.32	3.51	3.64	4.46	4.34	4.33	3.87	7.29	37.52	45.81
Bicarbonate Alkalinity as CaCO ₃	mg/L	119	253	154	26	10	<1	<1	<1	168	231	133	54	16	13
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	23	55	139	110	82	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	119	253	154	49	65	181	149	102	168	231	133	54	16	13
pH Value	pH Unit	8	7.9	7.9	9.3	9.9	11.1	11	11	8	7.8	7.8	7	5.8	5.6
Electrical Conductivity	µS/cm	1070	1100	1190	736	1020	1160	1240	2350	15100	1150	343	311	91	117
Ammonia	mg/L	0.3	0.03	1.68	1.81	2.06	3.79	6.53	4.76	0.54	0.02	0.02	0.05	<0.01	<0.01
Chloride	mg/L	204	40	216	142	197	188	222	570	4780	160	19	20	14	24
Nitrite	mg/L	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.01	0.04	<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	0.07	0.03	0.01	0.03	<0.01	<0.01
Sulphate	mg/L	130	330	148	109	154	35	172	256	862	153	16	69	3	4
Sulphide	mg/L	<0.1	<0.1	0.2	3.1	2.9	11.2	7.3	0.7	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.6	<0.1	1.8	1.9	2.5	4.4	7.2	4.9	0.6	<0.1	<0.1	<0.1	<0.1	<0.1
Nitrate	mg/L	<0.01	4.57	0.01	<0.01	<0.01	0.01	<0.01	0.08	0.01	<0.01	0.06	0.01	0.13	0.17
Total Nitrogen	mg/L	0.6	4.6	1.8	1.9	2.5	4.4	7.2	5	0.6	<0.1	<0.1	<0.1	0.2	0.2
Boron	µg/L	160	230	220	210	210	220	260	190	2550	280	40	20	10	10
Calcium	mg/L	49.8	79.3	80	22	15.4	26.3	26	86.6	111	92.6	45.1	27.1	0.85	1.46
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	6.04	55.1	6.09	0.82	0.12	<0.05	<0.05	<0.05	246	9.87	2.72	4.51	1.07	1.3
Sodium	mg/L	124	55.6	112	95.2	139	144	167	321	2420	118	19.3	24	13.2	16.5
Iron	mg/L	<0.04	<0.04	0.06	<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	21.8	15.9	26	20.8	47.4	53	49.8	83.8	109	11.6	6.07	3.19	3.96	4.36
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	2	3
Lead	µg/L	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	366	133	1040	6	<1	<1	<1	<1	263	1970	15	776	11	9
Nickel	µg/L	<1	<1	<1	<1	1	2	2	3	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	20	61	611
Biochemical Oxygen Demand	mg/L	<2	<2	3	2	<2	7	5	2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	10	2	15	14	22	35	38	24	28	5	<2	2	<2	3
Total Organic Carbon	mg/L	6	1	9	6	7	11	12	9	<5	2	<1	1	<1	1