

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	3.5	3.63	3.7	3.73	3.76	3.76	3.37	3.62	4.59	4.74	4.73	7.17	38.35	46.08
Bicarbonate Alkalinity as CaCO ₃	mg/L	107	276	163	<1	36	<1	<1	<1	171	173	122	56	16	11
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	61	22	103	91	82	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	107	276	163	68	58	170	141	116	171	173	122	56	16	11
pH Value	pH Unit	8	7.9	7.8	10.3	9.4	11.3	11.1	10.7	8.1	7.6	7.6	6.9	5.7	5.3
Electrical Conductivity	µS/cm	702	2060	1080	681	883	1300	1300	3140	14600	1380	433	319	92	120
Ammonia as N	mg/L	0.26	0.21	1.12	2	0.55	3.25	4.85	14	0.63	<0.01	0.02	0.01	<0.01	<0.01
Chloride	mg/L	101	338	154	108	127	169	195	1020	4130	228	36	18	14	22
Nitrite as N	mg/L	<0.01	0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Reactive Phosphorus as P	mg/L	<0.01	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	0.05	0.02	<0.01	0.03	<0.01	<0.01
Sulphate as SO ₄ - Turbidimetric	mg/L	70	209	132	81	135	132	138	42	795	154	45	68	3	4
Sulphide as S ₂	mg/L	0.1	<0.1	<0.1	3.4	<0.1	3.6	5.1	13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.4	0.4	1.3	2	0.9	3.7	5.1	14.2	0.9	0.1	0.1	<0.1	<0.1	<0.1
Nitrate as N	mg/L	<0.01	0.78	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	0.17	<0.01	0.13	0.18
Total Nitrogen as N	mg/L	0.4	1.2	1.4	2	0.9	3.7	5.1	14.2	1	0.1	0.3	<0.1	0.2	0.2
Boron	µg/L	110	290	190	220	220	200	220	540	2690	160	90	20	20	20
Calcium	mg/L	42.8	78.4	91.3	18.5	18.2	36.4	23.9	71.3	111	104	45.7	28.6	0.92	1.4
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	4.95	75.2	6.42	1.32	0.31	<0.05	<0.05	0.13	228	11.1	2.54	4.58	1	1.2
Sodium	mg/L	73	224	106	92.1	123	161	186	582	2460	156	33.2	24	13	16.2
Iron	mg/L	0.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.32	<0.04	<0.04
Potassium	mg/L	17.1	22.6	27.1	27.4	47.8	62.4	53.1	4.06	11.8	12.4	7.43	2.93	3.81	4.16
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	2	<1	<1	<1	<1	1	2	<1	<1	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	517	366	936	2	3	<1	<1	<1	229	1490	9	738	17	16
Nickel	µg/L	<1	<1	<1	<1	<1	1	2	<1	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	13	10	12
Biochemical Oxygen Demand	mg/L	<2	<2	2	<2	<2	3	<2	13	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	26	6	15	16	12	32	35	42	60	15	9	<2	<2	6
Total Organic Carbon	mg/L	6	2	9	7	8	11	14	12	6	6	5	1	1	4