

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	2.91	3.31	3.04	4.07	3.12	2.01	2.74	3.06	2.84	2.43	3.67	6.19	35.02	40.61
Bicarbonate Alkalinity as CaCO ₃	mg/L	165	259	162	35	<1	<1	29	<1	126	250	215	55	17	14
Carbonate Alkalinity as CaCO ₃	mg/L	<1	<1	<1	29	52	129	18	101	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO ₃	mg/L	165	259	162	64	98	161	48	112	126	250	215	55	17	14
pH Value	pH Unit	7.7	8.1	8	9.5	10.8	11.3	9.6	10.9	7.9	7.9	8.1	7.1	5.8	5.7
Electrical Conductivity	µS/cm	1210	1060	1100	863	1450	1170	1590	1860	1640	1010	774	294	93	100
Ammonia	mg/L	0.17	<0.01	1.05	3.02	2.58	3.44	0.48	7.28	0.24	0.03	0.17	0.02	0.04	<0.01
Chloride	mg/L	237	44	148	172	285	133	258	403	275	122	51	23	15	18
Nitrite	mg/L	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.57	0.01	0.05	<0.01	<0.01	0.01	<0.01	0.01
Phosphorus	mg/L	<0.01	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	0.01	0.04	<0.01	<0.01
Sulphate	mg/L	64	150	74	96	127	72	165	173	316	90	71	44	3	4
Sulphide	mg/L	<0.1	<0.1	<0.1	4.7	7.9	15.1	<0.1	5.8	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.2	<0.1	1.4	3.8	3.2	4.4	2.1	8.6	0.9	0.2	0.3	0.2	0.2	<0.1
Nitrate	mg/L	<0.01	0.64	<0.01	<0.01	<0.01	<0.01	3.23	<0.01	0.83	0.01	<0.01	<0.01	0.09	0.06
Total Nitrogen	mg/L	0.2	0.7	1.4	3.8	3.2	4.4	5.9	8.6	1.7	0.2	0.3	0.2	0.2	0.2
Boron	µg/L	170	210	230	240	220	190	280	200	410	220	110	30	20	20
Calcium	mg/L	76	61.3	65.8	18.4	33.6	39.6	17.8	50.1	98.4	88.6	86.2	24	0.83	1.07
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	13	55.7	5.73	2.03	<0.05	<0.05	0.93	<0.05	4.64	8.11	6.91	3.79	0.96	0.84
Sodium	mg/L	122	51.9	94.4	104	154	135	215	248	161	91.6	50	24	13.1	14
Iron	mg/L	<0.04	<0.04	0.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.05	0.48	<0.04	<0.04
Potassium	mg/L	19.9	12.1	31.2	26.2	44.5	48.3	52.8	62.9	28.6	11.4	8	2.9	3.89	3.73
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	4	<1	5	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	1400	4	961	<1	<1	<1	<1	<1	48	278	768	710	18	8
Nickel	µg/L	<1	<1	<1	<1	<1	2	2	5	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	34	<10	<10	<10	<10	<10	<10	<10	11	19	12
Biochemical Oxygen Demand	mg/L	<2	<2	<2	<2	3	3	<2	3	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	7	<2	14	18	26	44	28	36	22	3	5	2	<2	5
Total Organic Carbon	mg/L	2	<1	6	7	8	9	11	12	9	2	<1	<1	<1	1