

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	3.81	4.01	4.54	4.47	3.92	4.01	3.74	4.96	5.04	4.93	6.47	7.49	38.72	46.41
Bicarbonate Alkalinity as CaCO <sub>3</sub>	mg/L	141	264	198	22	50	12	18	8	166	230	198	54	17	13
Carbonate Alkalinity as CaCO <sub>3</sub>	mg/L	<1	<1	<1	<1	10	116	70	73	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO <sub>3</sub>	mg/L	115	215	192	48	54	152	92	108	162	260	135	57	18	16
pH Value	pH Unit	8	8	7.9	8.3	9	11	10.6	11	8	7.3	7.8	6.9	5.7	5.7
Electrical Conductivity	µS/cm	1120	5770	1340	1800	900	1090	1460	2850	14400	1190	441	318	95	145
Ammonia	mg/L	0.12	0.95	1.6	0.6	0.48	2.86	4.8	5.32	0.55	<0.01	<0.01	<0.01	<0.01	<0.01
Chloride	mg/L	196	1550	210	338	148	156	310	693	4400	124	33	20	15	24
Nitrite	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Phosphorus	mg/L	0.01	0.02	0.01	0.02	<0.01	<0.01	<0.01	<0.01	0.06	0.02	<0.01	0.03	0.01	<0.01
Sulphate	mg/L	130	447	162	321	139	117	141	216	790	147	39	65	3	10
Sulphide	mg/L	<0.1	<0.1	<0.1	0.4	0.6	5.5	3.8	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Total Kjeldahl Nitrogen	mg/L	0.4	1.9	1.8	1.1	1	4	6.4	6.3	0.6	0.2	0.1	0.1	<0.1	<0.1
Nitrate	mg/L	<0.01	1.74	0.02	<0.01	<0.01	<0.01	0.01	0.07	<0.01	<0.01	0.15	<0.01	0.13	0.21
Total Nitrogen	mg/L	0.4	3.7	1.8	1.1	1	4	6.4	6.5	0.6	0.2	0.3	0.1	0.1	0.2
Boron	µg/L	170	710	220	400	240	250	280	200	2560	430	100	30	20	20
Calcium	mg/L	58.4	101	117	76.9	24.8	17.4	23.3	116	127	103	52.1	28.8	0.82	2.6
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	6.83	106	8.51	2.05	0.61	<0.05	0.2	223	223	8.91	3.03	4.24	0.96	1.67
Sodium	mg/L	140	903	127	259	118	158	223	386	2410	134	29.3	25.1	14.1	18.5
Iron	mg/L	<0.04	<0.04	0.14	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.24	<0.04	<0.04
Potassium	mg/L	24.3	53.7	32.5	42.6	52	61.8	62.4	100	135	16.2	8.29	3.53	4.34	5.31
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	4	2	2
Lead	µg/L	<1	<1	<1	<1	<1	2	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	487	221	1180	28	6	<1	<1	<1	249	1100	18	746	10	9
Nickel	µg/L	<1	<1	<1	<1	<1	2	2	3	<1	<1	<1	<1	<1	<1
Zinc	µg/L	324	<10	68	<10	<10	<10	20	<10	12	11	<10	22	23	24
Biochemical Oxygen Demand	mg/L	<2	<2	<2	2	<2	4	3	2	<2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	15	14	18	19	20	36	40	32	<20	9	7	7	8	8
Total Organic Carbon	mg/L	7	2	6	9	6	10	11	9	<5	4	4	2	4	4