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	2.41	2.53	2.49	2.52	2.51	2.48	2.24	2.37	2.45	2.36	2.72	6.16	35.09	40.74
Bicarbonate Alkalinity as CaCO3	mg/L	132	328	123	<1	<1	<1	70	<1	89	204	239	57	15	11
Carbonate Alkalinity as CaCO3	mg/L	<1	<1	<1	93	101	157	4	109	<1	<1	<1	<1	<1	<1
Total Alkalinity as CaCO3	mg/L	132	328	123	121	129	189	74	120	89	204	239	57	15	11
pH Value	pH Unit	8	8.1	8	11	11.1	11.3	8.4	10.7	8.1	7.9	8.1	7.1	5.5	5.3
Electrical Conductivity	µS/cm	905	972	1150	1010	1330	1240	3030	1700	1590	1890	977	326	98	104
Ammonia as N	mg/L	0.15	<0.01	1.45	5.2	4.71	4.14	6.32	7.74	1.89	0.02	0.16	<0.01	0.01	<0.01
Chloride	mg/L	150	35	197	190	214	173	798	331	300	292	88	21	14	17
Nitrite as N	mg/L	<0.01	<0.01	<0.01	<0.01	<0.01	<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	<0.01	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.01	0.01	0.01	0.05	0.01	<0.01
Sulphate as SO4 - Turbidimetric	mg/L	69	135	90	58	131	92	42	179	210	287	114	59	3	5
Sulphide as S2	mg/L	0.2	<0.1	<0.1	7.3	8.7	9.1	0.7	4.9	0.2	<0.1	0.1	0.1	<0.1	<0.1
Total Kjeldahl Nitrogen as N	mg/L	0.2	0.1	1.7	5.8	4.9	5	6.4	8.1	2.1	0.2	0.3	<0.1	<0.1	<0.1
Nitrate as N	mg/L	<0.01	0.68	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.09	0.07
Total Nitrogen as N	mg/L	0.2	0.8	1.7	5.8	4.9	5	6.4	8.1	2.1	0.2	0.3	<0.1	0.2	0.1
Boron	µg/L	120	220	200	170	180	180	670	170	290	210	70	20	10	10
Calcium	mg/L	47.7	69.8	73	49.9	47.2	35	31	30.5	82	144	117	28.1	0.8	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	7.07	58.6	4.13	<0.05	<0.05	<0.05	14.5	<0.05	6.12	11.3	8.17	4.16	0.86	0.8
Sodium	mg/L	102	42.7	126	125	174	173	477	260	235	244	63.6	28	13.9	13.8
Iron	mg/L	0.12	<0.04	0.18	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.45	<0.04	<0.04
Potassium	mg/L	20.1	11.6	27.3	32.7	57.8	57.5	47.5	63.8	34.7	17.3	12.1	3.34	4.24	3.7
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	2	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	2	<1
Lead	µg/L	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Manganese	µg/L	890	359	895	<1	<1	<1	9	<1	41	985	814	764	38	14
Nickel	µg/L	<1	<1	<1	1	2	2	<1	4	<1	<1	<1	<1	<1	<1
Zinc	µg/L	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	1070	68	18
Biochemical Oxygen Demand	mg/L	<2	<2	2	2	3	6	<2	2	2	<2	<2	<2	<2	<2
Chemical Oxygen Demand	mg/L	5	4	15	40	43	60	10	36	16	12	6	5	12	<2
Total Organic Carbon	mg/L	4	5	12	9	10	12	5	12	7	8	5	3	5	2