

Table 7.2 Analysis Results of Water Monitoring Investigation (2)

Sample No.	Sample Type	Temp.	pH	ORP	E.C.	Hg	Cd	As	Pb	Cu	Zn	SO ₄	Cl
		(C.)		mV	S/m	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
MW-1	Groundwater	34.6	7.07	-148	5.44	0.0014	0.045	0.007	0.27	0.50	0.30	1144	22167
MW-2	Groundwater	33.8	7.06	-189	5.74	0.0025	0.041	0.007	0.21	0.35	0.09	1455	22955
MW-3	Groundwater	36.1	7.22	-119	5.20	0.0005	0.038	0.005	0.27	0.32	0.08	968	20788
MW-4	Groundwater	33.6	6.63	180	5.94	0.0022	0.048	0.006	0.26	0.30	0.11	1485	23940
MW-5	Groundwater	32.7	7.43	1	0.70	0.0006	<0.001	0.004	0.08	1.30	1.49	404	2177
MW-6	Groundwater	33.5	6.75	66	0.56	0.0007	<0.001	0.004	0.05	1.22	26.77	263	1645
MW-7	Groundwater	33.6	7.68	62	0.10	0.0021	<0.001	0.005	0.20	0.14	0.88	126	102
MW-8	Groundwater	34.3	6.81	-60	2.02	0.0015	<0.001	0.007	0.18	2.02	55.83	1036	7468
MW-9	Groundwater	33.6	6.80	-116	1.18	0.0018	0.001	0.006	0.21	1.18	9.51	807	3744
MW-11	Groundwater	35.5	6.88	-186	4.13	0.0021	0.044	0.008	0.39	0.87	12.38	1190	17241
MW-12	Groundwater	34.3	6.63	-98	1.94	0.0015	0.038	0.006	0.42	2.41	44.71	1661	15862
MW-13	Groundwater	33.4	6.34	94	1.51	0.0015	0.002	0.005	0.22	0.49	33.23	846	4610
MW-14	Groundwater	32.8	7.42	70	0.73	0.0024	<0.001	0.009	0.09	3.13	43.11	600	2463
Plantsite-1	Groundwater	32.4	7.56	185	0.15	0.0003	<0.001	0.006	0.01	0.15	0.01	229	199
Trench-1	Surface water	34.0	7.15	1	5.61	0.0042	0.048	0.012	0.42	0.19	0.06	1388	23448
Trench-2	Groundwater	36.1	6.34	22	5.32	0.0009	0.047	0.008	0.41	0.19	0.05	1335	21280
A-4	Groundwater	32.4	7.58	78	0.19	0.0009	<0.001	0.010	<0.01	0.08	0.02	237	335
A-5	Groundwater	31.9	7.36	-20	0.77	0.0003	<0.001	0.005	<0.01	0.25	0.03	1656	1635
A-7	Groundwater	33.7	7.34	93	0.38	0.0009	<0.001	0.005	<0.01	1.52	0.09	285	1013
B-1	Groundwater	35.4	7.32	-172	0.36	0.0002	<0.001	0.005	<0.01	0.13	0.01	212	958
B-1A	Groundwater	31.7	7.69	60	0.33	0.0002	<0.001	0.006	<0.01	0.04	0.01	276	812
B-2	Groundwater	33.4	7.41	45	0.35	0.0009	<0.001	0.007	<0.01	0.05	0.02	221	906
KM-14	Groundwater	32.0	7.28	114	1.70	0.0009	<0.001	0.009	0.03	0.06	0.02	554	5970
KM-14JD	Groundwater	32.9	7.99	94	0.20	0.0011	<0.001	0.005	<0.01	0.01	0.01	374	298
Falaj al Qabail	Surface water	33.5	8.27	-10	0.11	0.0100	<0.001	0.004	0.02	0.01	0.01	120	169
JP-4/3	Groundwater	34.2	7.40	-208	0.87	0.0009	<0.001	0.009	0.05	0.02	0.01	1256	1734
WS-1	Groundwater	33.6	8.21	25	0.07	0.0003	<0.001	0.003	0.02	0.01	0.02	44	86
WS-2	Groundwater	-	-	-	-	-	-	-	-	-	-	-	-
WS-3	Groundwater	33.6	7.29	74	0.82	0.0019	<0.001	0.003	0.02	0.02	0.02	351	2483
WS-4	Groundwater	33.7	7.34	109	0.94	0.0022	<0.001	0.004	0.08	0.05	0.02	285	3015
WS-5	Groundwater	32.8	7.69	89	0.26	0.0004	<0.001	0.004	0.01	<0.01	<0.01	585	282
WS-6	Groundwater	31.1	7.74	96	0.13	0.0010	<0.001	0.004	0.01	<0.01	<0.01	124	134
WS-7	Groundwater	32.9	7.50	105	0.43	0.0045	<0.001	0.006	0.01	<0.01	<0.01	574	977
WS-9	Groundwater	33.4	6.85	157	1.56	0.0013	<0.001	0.009	0.22	0.04	<0.01	499	5596
WS-13	Groundwater	34.8	8.58	-9	0.40	0.0029	<0.001	0.007	0.02	0.01	0.01	545	780
SP-2	Groundwater	33.9	6.65	167	1.78	0.0001	<0.001	0.008	0.22	0.04	0.02	616	6364
A-8	Groundwater	29.5	7.48	92	0.27	0.0012	<0.001	0.004	<0.01	0.02	0.02	474	382
AEX-48	Groundwater	-	-	-	-	-	-	-	-	-	-	-	-
Wadi al Jizi	Surface water	30.7	8.12	100	0.10	0.0020	<0.001	0.007	0.02	<0.01	<0.01	74	112
L-1	Groundwater	31.2	7.55	95	0.15	0.0010	<0.001	0.003	<0.01	0.01	0.01	378	134
L-2	Groundwater	32.0	7.63	102	0.12	0.0010	<0.001	0.003	<0.01	<0.01	<0.01	186	78
L-3	Groundwater	32.5	7.46	87	0.09	0.0004	<0.001	0.003	<0.01	0.01	0.01	123	57
L-3B	Groundwater	31.3	7.52	88	0.08	0.0023	<0.001	0.004	<0.01	<0.01	<0.01	86	64
Falaj al Amhi	Surface water	32.1	8.33	20	0.06	0.0015	<0.001	0.004	0.01	<0.01	<0.01	60	72
T/D Piezo DH-2	Groundwater	-	-	-	-	0.0045	0.057	0.004	0.52	1.53	0.51	1362	33497
Minimum		29.5	6.34	-208	0.06	0.0001	<0.001	0.003	<0.01	<0.01	<0.01	44	57
Maximum		36.1	8.58	185	5.94	0.0100	0.057	0.012	0.52	3.13	55.83	1661	33497
Average		33.2	7.37	29	1.40	0.0017	0.010	0.006	0.12	0.44	5.34	616	6001

Red color : Exceeding Omani standard of discharge