

JAPAN INTERNATIONAL COOPERATION AGENCY
MINISTRY OF WATER AND IRRIGATION
THE HASHEMITE KINGDOM OF JORDAN

**THE STUDY ON
WATER RESOURCES MANAGEMENT
IN
THE HASHEMITE KINGDOM OF JORDAN**

FINAL REPORT VOLUME V

**SUPPORTING REPORT
FOR**

**PART-A WATER RESOURCES MANAGEMENT
MASTER PLAN**

CHAPTER 4 WATER QUALITY CONSERVATION

DECEMBER 2001

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The Study on Water Resources Management in the Hashemite Kingdom of Jordan

**FINAL REPORT VOLUME V
SUPPORTING REPORT
FOR
PART-A “WATER RESOURCES MANAGEMENT MASTER PLAN”
Chapter 4 Water Quality Conservation**

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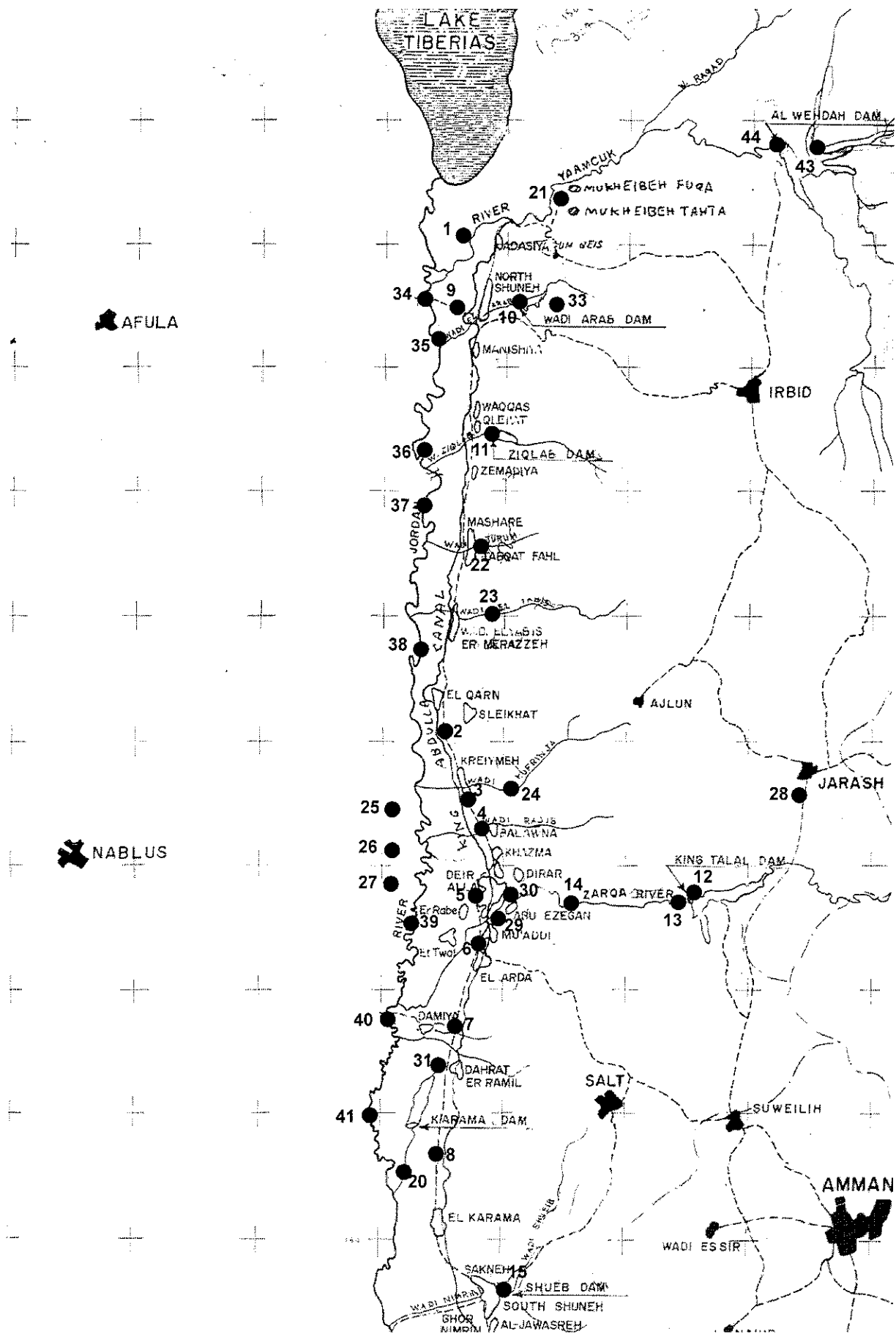


Fig. A-I-1 Location Map of JVA Surface Water Monitoring Stations (1/2)

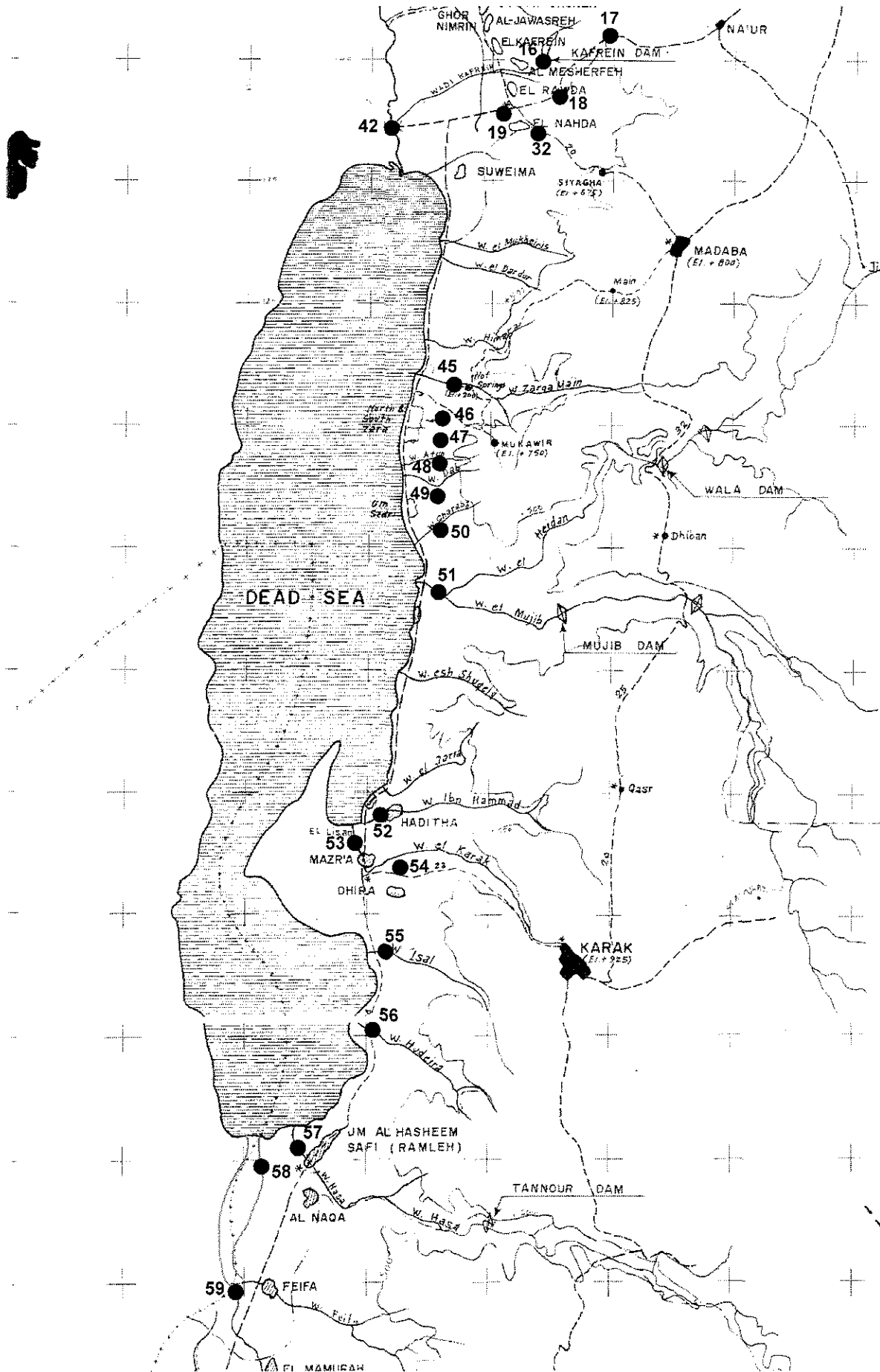


Fig. A-I-1 Location Map of JVA Surface Water Monitoring Stations (2/2)

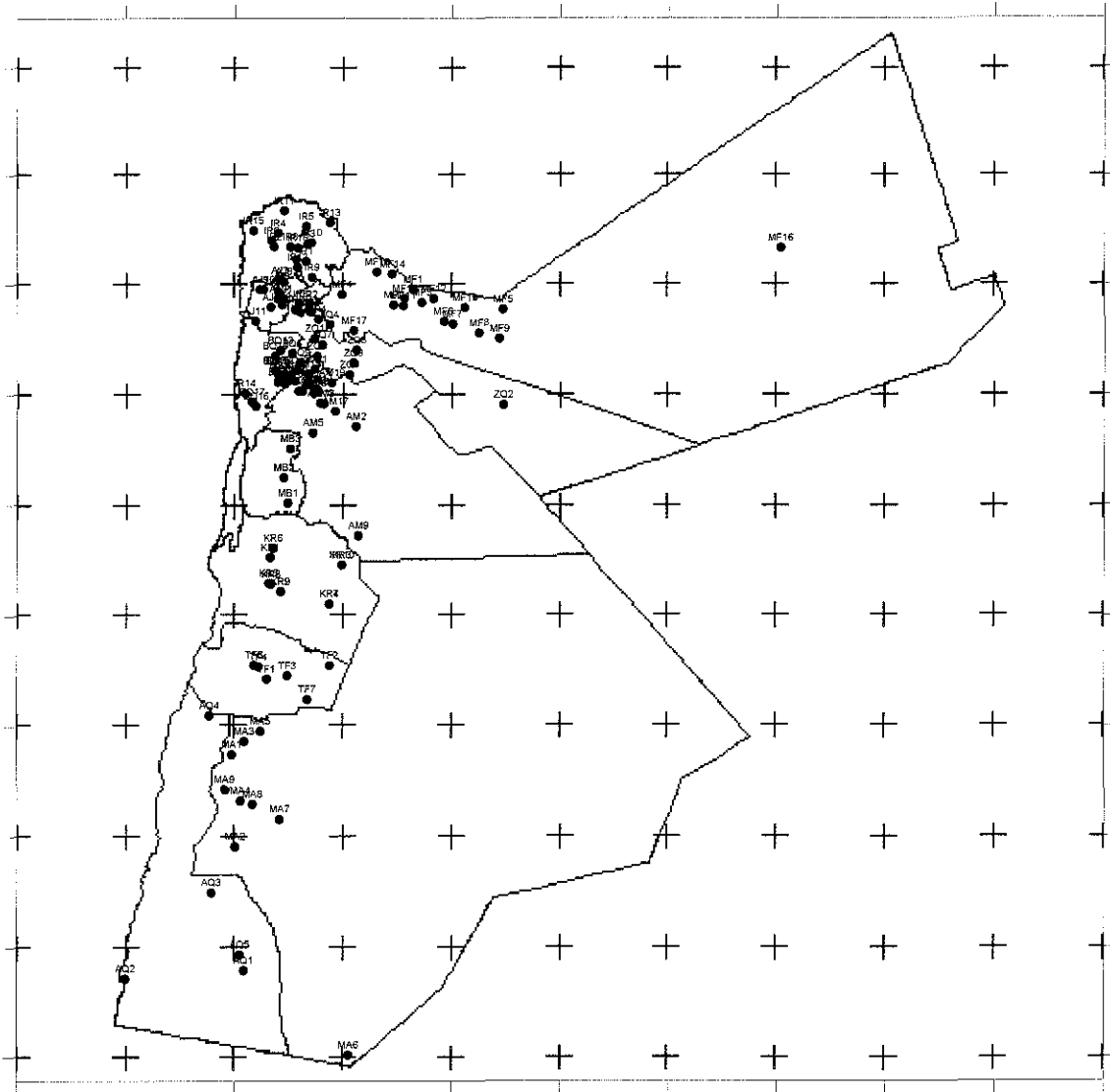


Fig. A-I-2 Location Map of WAJ Drinking Water Quality Monitoring Stations

Table A-I-1 Surface Water Quality Monitoring Results of JVA Lab (1995-2000)

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	μS/cm	mg/L										
1	101	Tunnel/KAC Al-Nafaq	Ave.	906	8.34	84.71	10.83	61.36	32.10	110.32	54.38	292.50	10.73	0.21	2.19
			Max.	1030	8.51	122.59	40.66	76.15	43.76	163.42	92.71	317.20	19.80	0.40	3.14
			Min.	650	7.98	57.50	5.87	39.28	23.09	78.34	9.61	195.20	0.75	0.08	1.70
2	102	Abu Sido	Ave.	952	8.36	89.80	7.52	61.01	30.36	146.92	52.52	251.18	10.75	0.17	2.37
			Max.	1130	8.51	105.80	10.17	78.16	36.47	173.35	73.97	329.40	19.40	0.34	3.06
			Min.	670	7.92	63.25	5.08	42.08	19.45	92.17	4.80	195.20	4.70	0.01	1.92
3	103	Kureima	Ave.	937	8.40	86.11	7.70	63.35	28.30	143.40	53.75	246.81	7.93	0.23	2.26
			Max.	1100	8.59	103.50	10.56	78.16	35.25	188.95	125.85	329.40	11.70	0.70	2.67
			Min.	670	8.00	63.25	5.08	41.88	17.02	92.17	4.80	170.80	4.12	0.01	2.00
4	104	Dirar	Ave.	925	8.37	84.43	7.74	63.97	27.80	138.43	46.35	255.22	7.81	0.16	2.22
			Max.	1120	8.55	101.20	10.56	78.16	46.19	188.95	88.38	329.40	15.86	0.32	2.61
			Min.	660	7.94	60.26	5.08	44.49	14.59	90.40	2.40	183.00	4.08	0.05	1.85
5	105	Sawalha	Ave.	901	8.42	84.18	7.43	59.86	27.66	134.99	46.21	248.70	9.12	0.18	2.21
			Max.	1040	8.93	105.80	10.56	80.16	34.03	197.46	84.54	329.40	13.64	0.26	2.66
			Min.	600	7.94	51.75	4.69	36.07	21.88	75.51	2.40	164.70	5.23	0.07	1.40
6	107	Mudi	Ave.	1717	8.15	177.81	25.57	116.41	47.77	311.00	110.91	401.44	41.07	0.52	3.48
			Max.	2520	8.56	279.45	40.27	166.73	91.77	485.67	190.22	473.36	66.94	0.84	5.09
			Min.	920	7.63	100.97	11.34	62.73	35.49	167.68	78.78	273.28	20.73	0.32	2.37
7	108	Thahret Al-Ramel	Ave.	1673	8.10	167.00	23.69	111.38	39.46	288.00	88.29	403.58	38.59	0.50	3.38
			Max.	2450	8.77	285.20	41.06	156.31	58.34	476.45	169.08	585.60	66.94	0.84	5.24
			Min.	640	7.39	54.51	5.08	48.10	24.31	84.02	33.62	183.00	9.61	0.26	1.60
8	109	Karamah/Pump 25	Ave.	1967	8.26	194.76	26.94	133.99	43.76	342.62	108.99	421.14	36.10	0.59	3.64
			Max.	3440	8.94	411.93	56.30	208.42	63.21	723.18	187.34	573.40	63.35	0.98	6.63
			Min.	1050	7.82	72.91	11.34	67.33	27.96	148.18	33.62	329.40	1.64	0.28	1.78
9	110	Taberas Lake inflow-KAC	Ave.	1081	8.35	108.41	14.03	63.79	27.44	229.64	66.02	149.25	2.16	0.16	2.88
			Max.	1180	8.58	127.65	50.05	104.21	35.25	255.95	110.00	164.70	3.68	0.22	3.46
			Min.	980	8.00	96.83	8.21	44.29	20.66	207.74	31.22	122.00	0.31	0.10	2.27

SA4-4

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	µS/cm	mg/L										
10	201	Wadi Al Arab RES	Ave.	1011	8.40	88.99	7.18	67.57	31.83	128.75	90.83	248.27	4.89	0.19	2.27
			Max.	1400	8.82	105.57	10.95	128.26	41.33	153.14	196.94	317.20	9.39	0.27	2.56
			Min.	750	7.64	69.00	3.75	38.08	21.88	88.63	9.61	148.84	0.00	0.06	1.88
11	202	Sharahabil Res.	Ave.	656	7.91	26.91	4.01	61.28	29.65	42.01	33.48	281.76	12.24	0.13	0.71
			Max.	790	8.28	39.33	4.69	78.16	47.40	56.72	67.73	321.47	18.25	0.28	0.93
			Min.	560	7.50	18.40	3.52	48.10	21.88	24.82	4.80	231.80	7.35	0.01	0.45
12	203a	King Talal Res-300	Ave.	1928	7.96	189.49	27.61	103.58	60.11	313.33	110.12	476.33	41.89	0.58	3.63
			Max.	2550	8.48	284.05	41.06	132.26	82.65	475.74	196.94	536.80	69.33	0.86	5.13
			Min.	1370	7.48	117.30	17.99	62.12	35.01	205.61	19.21	420.90	8.33	0.28	2.51
13	203b	King Talal Res-600	Ave.	2054	7.84	186.97	53.68	126.55	55.58	322.31	110.48	491.17	24.39	0.58	3.70
			Max.	2540	8.17	287.50	301.07	194.79	78.40	471.49	176.29	660.63	47.89	0.85	5.24
			Min.	1620	7.53	111.32	17.60	52.71	42.79	212.70	33.62	366.00	4.03	0.44	2.57
14	203c	Tal- Aldahab/KTR	Ave.	2015	8.32	205.54	29.85	120.61	52.85	322.06	159.56	449.27	45.95	0.68	3.91
			Max.	2550	8.55	284.05	41.06	131.26	61.38	475.74	221.92	519.72	68.58	0.86	5.13
			Min.	1630	8.25	147.20	21.90	110.22	47.40	239.29	51.88	390.40	22.15	0.45	2.95
15	204	Wadi Shuaeeb RES	Ave.	803	8.55	53.27	8.72	64.95	27.47	92.28	54.76	252.60	24.80	0.21	1.39
			Max.	1180	9.00	83.26	12.12	88.18	38.90	159.53	90.31	323.30	32.21	0.35	1.94
			Min.	530	8.04	30.36	6.26	45.09	15.80	35.45	19.21	156.77	14.13	0.00	0.86
16	205	Kafrein RES/Outflow	Ave.	891	8.21	61.33	8.38	70.07	33.75	127.50	77.60	218.18	22.92	0.23	1.50
			Max.	1140	8.66	75.90	11.73	92.18	46.19	192.14	156.11	274.50	30.92	0.39	1.80
			Min.	610	7.82	39.79	5.08	41.48	14.59	70.90	26.90	170.80	13.82	0.07	1.07
17	207	Old Hisban Div.	Ave.	1115	8.11	80.11	9.34	92.46	37.80	145.98	112.26	263.64	5.35	0.24	1.77
			Max.	1240	8.40	101.20	11.73	108.22	51.29	229.36	216.16	341.60	17.23	0.43	2.16
			Min.	920	7.54	52.44	7.43	64.53	23.09	77.99	49.96	183.00	2.57	0.12	1.24
18	208	New Hisban Div.	Ave.	769	8.21	40.53	18.03	72.54	29.09	60.69	75.56	252.78	20.25	0.24	0.99
			Max.	1000	8.56	61.87	122.38	88.18	38.90	113.44	211.35	305.00	36.28	0.66	1.25
			Min.	590	7.65	25.53	3.52	44.09	18.96	5.67	24.02	183.00	5.89	0.09	0.61
19	209	Hisban Stream below Div.	Ave.	877	8.24	54.79	6.41	73.51	30.24	93.73	74.45	255.22	21.78	0.20	1.33
			Max.	1120	8.52	74.75	9.38	96.19	38.90	136.48	176.77	329.40	49.84	0.39	1.63
			Min.	640	7.66	28.29	3.52	47.70	18.96	39.00	6.24	213.50	4.34	0.04	0.86

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	μS/cm	mg/L										-
20	210	Karameh Res/ Outflow	Ave.	3783	8.46	376.69	46.79	209.08	106.83	809.21	298.56	292.26	32.85	1.26	5.16
			Max.	6930	8.86	724.50	101.66	376.75	182.33	1752.65	532.23	488.00	44.79	2.35	7.87
			Min.	2580	8.23	220.80	26.98	160.32	75.36	536.00	208.95	122.00	18.16	0.88	3.53
21	301	Mukheiba Wells	Ave.	732	7.90	43.78	3.95	66.38	25.90	57.74	48.14	287.24	3.24	0.17	1.16
			Max.	780	8.22	50.37	5.47	88.18	31.60	70.90	82.62	323.30	13.11	0.30	1.28
			Min.	670	7.56	32.20	1.56	46.29	18.23	46.09	14.41	246.44	0.00	0.02	0.81
22	303	W. Al - Jurum	Ave.	782	8.03	44.21	5.12	72.36	28.30	63.53	34.30	321.23	15.01	0.15	1.14
			Max.	870	8.25	67.16	6.26	92.18	41.33	74.09	49.48	378.20	17.68	0.31	1.93
			Min.	710	7.73	29.90	4.30	50.70	19.45	56.72	4.80	292.80	12.76	0.01	0.72
23	304	W. Al-Yabis	Ave.	735	8.16	48.37	6.92	57.86	28.94	78.49	41.17	262.18	16.38	0.15	1.32
			Max.	900	8.82	59.57	8.60	78.16	36.47	104.58	109.04	311.10	24.05	0.30	1.89
			Min.	490	7.70	23.00	5.47	37.07	17.02	29.07	4.80	207.40	8.90	0.01	0.70
24	305	W. Kufrenja	Ave.	808	8.56	40.94	6.35	68.61	34.66	69.39	58.90	298.44	39.59	0.17	0.99
			Max.	1080	8.83	57.50	10.17	92.18	44.97	102.45	101.83	353.80	50.06	0.34	1.29
			Min.	570	8.06	22.31	3.91	38.08	21.88	33.68	19.21	256.20	32.12	0.06	0.69
25	306	Ein - Al Saidieh	Ave.	3133	7.73	297.42	27.98	167.65	106.18	731.61	198.06	359.63	90.12	0.45	4.29
			Max.	3460	8.12	402.27	33.24	214.43	131.27	855.76	460.18	427.00	105.04	0.93	5.22
			Min.	2520	7.40	247.30	21.11	95.99	34.28	595.56	57.64	292.80	80.67	0.09	3.52
26	307	Ein Al - Buweib	Ave.	2524	8.19	236.26	28.97	131.58	89.28	468.37	212.22	405.04	83.76	0.70	3.86
			Max.	2860	8.44	317.86	41.84	184.37	126.41	638.10	350.66	488.00	102.51	0.93	5.30
			Min.	810	7.92	54.51	5.87	72.14	26.74	91.11	57.64	256.20	32.65	0.14	1.39
27	308	Ein Al- Nakheil	Ave.	3328	8.29	330.69	45.36	147.41	124.90	549.72	309.87	495.69	159.36	1.07	4.84
			Max.	4240	8.46	455.40	62.56	192.38	182.33	660.08	662.88	634.40	178.09	1.58	6.02
			Min.	2600	8.09	235.75	35.58	114.23	60.78	428.95	120.09	427.00	134.80	0.87	3.59
28	309	W. Jarash	Ave.	2365	8.08	221.67	72.38	140.01	57.67	394.32	102.26	593.33	63.15	0.69	3.99
			Max.	2710	8.68	292.10	402.73	192.38	69.28	503.39	157.07	707.60	119.88	1.09	5.52
			Min.	1870	7.65	162.84	17.99	105.81	46.19	262.68	28.82	396.50	38.23	0.36	3.18
29	310	Abu Alzighan Canal Div.	Ave.	2140	8.09	226.29	30.67	137.07	53.02	375.02	115.39	478.51	52.87	0.57	4.18
			Max.	2840	8.70	309.12	41.06	200.40	93.59	503.39	188.78	610.00	68.49	0.84	5.74
			Min.	1630	7.50	134.09	21.11	94.39	29.17	246.02	48.04	390.40	37.61	0.23	2.30

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	μS/cm	mg/L										-
30	311	Women Hot Springs	Ave.	6366	6.41	771.70	119.92	407.49	99.94	1090.94	578.63	1011.38	3.09	1.49	8.92
			Max.	7320	6.69	902.75	132.55	547.09	136.14	1410.91	984.72	1268.80	7.71	1.78	10.12
			Min.	5540	6.27	632.50	101.66	280.56	11.67	901.85	321.83	420.90	1.02	0.78	7.46
31	313	Malaha Return Flow	Ave.	25571	8.00	4001.20	336.18	708.53	444.92	6617.98	2407.51	316.35	159.64	15.04	30.65
			Max.	34000	8.24	6732.10	476.63	1523.04	741.46	10564.1	4390.40	378.20	250.16	22.99	69.03
			Min.	14090	7.35	1820.91	183.77	400.80	194.48	2648.12	1200.88	231.80	77.35	10.87	14.78
32	314	Hisban Stream	Ave.	3378	7.55	419.27	61.66	166.17	72.16	696.31	233.83	453.23	8.15	0.77	6.70
			Max.	4500	7.95	617.09	93.84	238.48	97.24	1020.96	388.12	622.20	29.90	1.16	9.67
			Min.	1480	7.19	142.60	11.73	85.37	27.96	205.61	76.86	244.00	2.66	0.23	2.98
33	315	W. Al-Arab +Hot Springs	Ave.	1128	8.10	86.50	6.10	86.63	41.17	125.10	91.03	341.23	2.02	0.20	1.92
			Max.	1250	8.32	101.20	7.82	120.24	54.70	188.95	173.89	402.60	3.81	0.34	2.27
			Min.	950	7.62	73.60	3.91	55.11	27.96	95.72	9.61	292.80	0.00	0.10	1.70
34	401	Majame Bridge/J.R.	Ave.	6029	7.82	695.34	50.60	351.86	134.03	1612.69	275.24	366.12	25.94	0.88	8.17
			Max.	7810	8.07	876.07	74.29	561.12	206.64	2137.64	489.96	439.20	36.77	1.32	9.67
			Min.	2770	7.58	367.77	23.46	113.83	34.64	744.45	38.43	317.20	19.94	0.33	6.85
35	402	Manshieh/J.R.	Ave.	5075	7.70	590.50	41.92	266.09	131.25	1247.49	283.79	409.55	28.89	0.88	7.62
			Max.	6370	7.91	766.59	55.91	501.00	194.48	1595.25	415.98	505.08	35.53	1.20	9.49
			Min.	3790	7.48	476.10	23.85	180.36	81.44	796.56	120.09	341.60	23.30	0.71	6.63
36	403	Sheikh Husein Bridge /J.R.	Ave.	4504	7.77	515.13	32.06	215.33	135.94	1072.29	249.21	442.74	28.40	0.72	6.77
			Max.	5660	8.11	722.89	46.92	260.52	204.20	1517.26	380.44	518.50	34.24	1.23	9.38
			Min.	3580	7.46	320.85	19.55	148.90	85.09	751.54	76.86	359.90	22.24	0.38	4.41
37	404	Al-Shamaileh/J.R.	Ave.	5056	7.94	605.91	36.68	239.08	143.31	1252.48	274.90	426.88	26.84	0.85	7.73
			Max.	6390	8.25	793.50	46.92	396.79	189.62	1560.15	427.51	497.76	36.81	1.30	9.70
			Min.	3770	7.70	451.95	20.72	153.11	96.02	898.66	67.25	353.80	19.58	0.36	6.51
38	405	Masadeh/J.R.	Ave.	4482	8.13	534.52	35.46	216.93	126.50	1005.89	252.47	422.55	30.90	1.60	6.89
			Max.	5940	8.34	757.39	59.04	320.64	183.54	1474.72	410.22	536.80	43.15	9.33	9.54
			Min.	2180	7.88	206.08	12.51	128.26	70.01	383.92	57.64	280.60	3.77	0.40	3.60
39	406	Al-Shhadat/J.R.	Ave.	4716	8.20	563.06	43.71	192.66	132.19	1110.72	308.72	417.97	39.73	0.89	7.63
			Max.	5720	8.41	729.33	74.29	278.56	189.62	1428.64	457.29	549.00	50.95	1.30	10.19
			Min.	2110	7.99	201.25	14.86	112.22	72.93	394.20	124.89	268.40	24.90	0.36	3.63

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	µS/cm	mg/L										-
40	407	Prince Mohammad Bridge/J.R	Ave.	4866	8.19	588.92	57.59	214.63	127.38	1158.08	351.81	416.75	37.60	2.16	7.66
			Max.	6000	8.35	757.39	106.35	372.74	194.48	1442.82	566.81	561.20	58.03	11.03	11.07
			Min.	2080	8.00	206.08	16.03	118.24	66.85	393.14	105.68	268.40	2.04	0.33	3.69
41	408	Zor Shashah	Ave.	5624	8.14	694.49	56.11	237.15	161.93	1387.76	405.85	387.96	43.02	1.37	8.57
			Max.	6800	8.35	897.00	86.02	322.64	238.24	1690.97	715.72	500.20	55.95	1.84	10.99
			Min.	4520	7.77	560.97	35.97	170.34	89.46	990.12	206.55	183.00	24.01	0.89	7.35
42	409	King Hussein Bridge	Ave.	6663	8.11	804.38	71.55	259.60	198.66	1674.62	508.98	367.83	45.17	1.78	9.42
			Max.	8410	8.32	1173.00	117.30	380.76	301.44	2217.04	826.20	475.80	64.24	2.29	12.71
			Min.	4980	7.97	588.80	44.57	132.26	109.40	1093.99	269.00	183.00	34.60	1.15	7.36
43	501	Al- Wehdah Dam Bridge	Ave.	845	8.36	92.07	6.76	52.87	23.84	96.92	59.76	250.34	27.11	0.21	2.65
			Max.	1060	8.60	124.20	10.56	76.15	34.52	120.88	95.11	281.82	53.29	0.49	3.29
			Min.	770	8.00	80.50	4.30	26.65	13.37	80.83	19.21	219.60	19.40	0.09	2.36
44	502	Al- Wehdah Dam -Al Hadier	Ave.	988	8.40	105.55	10.71	72.06	28.47	123.22	68.93	274.26	38.34	0.33	2.76
			Max.	1240	8.65	138.00	14.86	164.33	65.64	152.79	105.68	317.20	48.60	0.64	3.52
			Min.	810	7.98	68.31	4.69	36.07	13.37	85.08	14.41	231.80	19.54	0.13	1.46
45	503	Zarqa Main (after springs and WWTP)	Ave.	2897	8.20	364.02	50.75	137.92	47.09	710.24	203.72	149.08	3.00	0.55	6.94
			Max.	3240	8.37	404.80	62.95	180.36	68.07	755.09	304.54	207.40	4.43	0.68	8.49
			Min.	2640	7.78	276.00	8.21	88.18	33.06	653.34	76.86	61.00	1.95	0.39	4.44
46	504	Nrrthern Zarah -I	Ave.	2018	7.97	219.44	37.85	116.99	38.19	455.96	141.42	201.06	1.72	0.43	4.55
			Max.	2160	8.23	257.60	55.91	150.30	50.08	475.03	212.31	231.80	2.92	0.53	5.67
			Min.	1940	7.57	185.38	32.06	96.19	21.88	409.45	86.46	170.80	1.02	0.33	3.52
47	505	Middle Zarah -2	Ave.	1552	8.18	160.10	26.43	103.53	29.86	339.33	118.12	160.31	1.19	0.36	3.56
			Max.	1650	8.48	194.35	33.63	145.49	42.54	354.50	205.59	195.20	2.61	0.47	4.63
			Min.	7650	4.97	11.50	140.76	26.05	102.35	35.45	97.03	1.22	1.15	2.39	0.00
48	506	Middle Zarah -3	Ave.	2441	8.39	144.79	22.72	95.13	27.97	319.79	123.40	121.02	0.98	0.33	3.42
			Max.	11420	8.66	207.00	27.76	136.27	38.90	358.05	203.67	146.40	1.68	0.40	5.03
			Min.	1340	8.00	88.55	12.90	72.14	12.40	283.95	81.66	93.94	0.18	0.19	1.95
49	507	Southern Zarah -4	Ave.	1770	8.28	188.37	24.67	115.31	33.90	410.69	123.26	150.55	1.12	0.35	3.91
			Max.	1910	8.47	225.40	30.50	156.31	46.19	436.04	209.43	170.80	3.10	0.45	5.03
			Min.	1650	7.72	148.35	14.08	88.18	18.35	372.93	43.23	122.00	0.18	0.24	2.79

No in Map	JVA IDN	Site Name	Parameter	EC	pH	Na	K	Ca	Mg	Cl	SO ₄	HCO ₃	NO ₃	B	SAR
			Unit	μS/cm	mg/L										
50	508	Southern Zarah -5	Ave.	1955	8.22	207.18	48.88	123.41	37.12	458.01	137.28	154.94	1.23	0.34	4.23
			Max.	2310	8.42	250.70	238.51	166.33	48.62	531.75	215.20	183.00	1.77	0.42	5.20
			Min.	1780	7.60	170.66	23.46	92.18	19.93	409.80	57.64	128.10	0.31	0.19	3.27
51	509	W Al Mujib	Ave.	2329	8.27	240.30	23.38	144.51	52.87	520.30	169.47	192.39	1.57	0.37	4.38
			Max.	2620	8.55	299.00	35.97	174.35	72.93	592.02	225.76	237.90	2.35	0.44	5.61
			Min.	2100	7.72	185.38	17.20	104.21	42.54	436.04	91.27	148.84	0.75	0.20	3.28
52	510	W Ibn Hammad	Ave.	1031	7.94	94.05	10.13	65.37	31.15	161.97	87.38	216.79	1.36	0.21	2.62
			Max.	1090	8.22	117.30	12.90	90.18	35.25	180.80	137.38	256.20	2.57	0.27	4.67
			Min.	980	7.54	66.70	6.65	52.10	29.17	128.33	54.76	195.20	0.31	0.14	1.53
53	511	W Al Karak	Ave.	971	8.20	78.55	11.34	69.74	30.34	132.09	91.41	219.60	7.03	0.19	1.98
			Max.	1170	8.58	94.30	15.25	92.18	51.05	171.93	146.03	280.60	19.45	0.33	2.36
			Min.	760	7.94	59.11	6.26	50.30	20.66	106.35	43.23	183.00	0.40	0.06	1.64
54	512	W Al Dereaa	Ave.	819	8.26	66.06	8.33	63.29	23.36	113.12	70.18	189.34	0.60	0.22	1.80
			Max.	860	8.75	78.20	10.95	80.16	32.82	143.93	101.35	219.60	1.59	0.55	2.11
			Min.	760	7.85	52.90	5.08	50.30	14.59	95.72	43.23	168.36	0.09	0.08	1.45
55	513	W Issal	Ave.	953	8.41	80.04	10.83	63.63	32.27	138.93	97.32	167.38	2.54	0.29	2.04
			Max.	1090	8.78	92.00	14.86	84.17	43.76	189.66	145.07	195.20	9.08	0.69	2.35
			Min.	890	8.05	72.22	7.43	50.50	25.53	119.47	62.45	122.00	0.66	0.18	1.88
56	514	W Numierah	Ave.	1024	8.39	77.53	11.50	74.47	36.60	146.66	120.90	178.49	0.96	0.25	1.85
			Max.	1280	8.72	87.40	14.47	120.24	46.19	194.27	273.32	201.30	1.86	0.50	2.11
			Min.	920	7.96	66.24	6.65	56.71	26.74	124.78	62.45	148.84	0.27	0.13	1.66
57	515	W Al Hasa	Ave.	678	8.37	50.35	5.43	53.87	22.50	91.25	56.97	162.75	1.06	0.16	1.45
			Max.	770	8.64	60.26	7.43	60.92	31.60	145.70	80.70	195.20	3.54	0.31	1.67
			Min.	610	7.90	42.09	3.52	44.29	15.80	76.57	38.43	123.22	0.22	0.05	1.25
58	516	W Feifa	Ave.	721	8.40	46.30	4.89	79.96	28.56	78.34	59.61	207.52	0.98	0.14	1.19
			Max.	880	8.65	52.90	6.26	288.58	34.03	124.78	132.10	236.68	3.32	0.33	1.35
			Min.	650	7.99	38.41	2.74	44.09	21.88	56.72	24.02	179.34	0.04	0.01	0.79
59	517	W Khuneizira	Ave.	967	8.23	69.94	5.94	77.59	35.03	122.80	80.31	236.80	3.23	0.20	1.66
			Max.	1100	8.48	85.10	10.17	120.24	42.30	140.03	144.11	263.52	6.07	0.41	2.04
			Min.	870	7.89	59.11	3.13	60.12	25.53	81.54	52.84	200.08	1.02	0.07	1.49

Table A-I-2 RSS Water Quality Monitoring Results for King Abdullah Canal in the Period of Agu-98 to Agu-99

Item	Unit	Aug-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99
Yarmouk River														
Water Temp	°C	31	29	29	23	18	17	19	21	20	29	27	28	28
Ambient Temp	°C	39	36	34	32	22	24	25	21	29	37	32	36	47
Related Humidity	%		59	60	55	57	55	67	70	61	58	59	55	
DO	mg/L	8.1	7.8	7.5	7.5	4	8.5	6.6	6.6	6	6.3	7.2	6.8	6.2
pH	-	7.8	8.1	8.32	8.36	8.14	8.24	8.3	8.5	8.54	8.5	8.57	8.5	8.45
NO ₃	mg/L	11.6	12.1	12.8	13	2	16	15	16	16	22	24	23	20
T.Kj-N	mg/L	1	1	1.1	1	1	2	1	1	1	1	1	1	1
PO ₄ -P	mg/L	0.3	0.5	0.5	0.77	0.06	0.95	0.59	1.15	0.55	0.33	0.26	0.25	0.23
T-P	mg/L	0.1	0.2	0.2	0.36	0.1	1.97	0.28	0.74	0.37	0.25	0.19	0.11	0.43
TOC	mg/L				2	3	7	2	4	2	2	2	2	2
Mukheiba														
Water Temp	°C	33	33	31	30	24	25	28	29	21	30	32	32	32
Ambient Temp	°C	40	37	37	25	21	24	25	21	26	37	34	37	35
Related Humidity	%		58	55	61	56	55	67	69	60	58	71	60	67
DO	mg/L	8.4	7.6	7	6.4	6	7.2	6.9	5.9	5.3	6	6.2	6.7	7.3
pH	-	7.56	7.8	7.66	7.94	8	7.95	7.91	8.04	7.95	7.87	7.89	8.17	8.15
NO ₃	mg/L	0.1	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	0.1	0.115	0.1	0.1
T.Kj-N	mg/L	1	1	1	1	4	1	1	1	1	1	1	1	1
PO ₄ -P	mg/L		0.04	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.07	0.04	0.04	0.04
T-P	mg/L	0.1	0.1	0.1	0.1	0.11	0.1	0.1	0.16	0.1	0.1	0.1	0.1	0.1
TOC	mg/L				2	2	11	3	5	2	2.5	3	13	2
Dajania														
Water Temp	°C	31	30	28							26	26	29	29
Ambient Temp	°C	41	36	35							37	35	37	35
Related Humidity	%		57	60							59	67	61	68
DO	mg/L	9	8.3	7.6							6.9	6.6	7.2	7.8

SA4-10

Item	Unit	Aug-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99
pH	-	8.03	8.1	7.98							8.77	8.48	8.46	8.26
NO ₃	mg/L	0.1	0.1	0.1							0.4	0.2	0.4	0.1
T.Kj-N	mg/L	1	1	1							1	1	1	1
PO ₄ -P	mg/L		0.04	0.03							0.05	0.04	0.06	0.03
T-P	mg/L	0.1	0.1	0.1							0.1	0.1	0.1	0.1
TOC	mg/L										5	4	3	4
Waqgas Town														
Water Temp	°C				22.4	14	17	20	21	20	26	28	30	31
Ambient Temp	°C				30	19	15	17	24	27	37	35	35	35
Related Humidity	%				54	59	83	77	56	61	57	60	63	67
DO	mg/L				8	9.5	7.8	5.9	7.5	5.9	6.1	7.2	6.8	6.2
pH	-				8.46	8.41	8.36	8.39	8.56	8.46	8.43	8.19	8.38	8.18
NO ₃	mg/L				5	8	12	13	6	8	10.3	8.2	3.4	2.8
T.Kj-N	mg/L				1	1	1	1	1	1	1.25	1	1	1
PO ₄ -P	mg/L				0.2	0.13	0.74	0.64	0.32	0.17	0.19	0.09	0.08	0.04
T-P	mg/L				0.17	0.27	0.46	0.29	0.4	0.32	0.16	0.1	0.1	0.1
TOC	mg/L				3	2	6	3	4	2	2.75	5	4	3
Abu Habel														
Water Temp	°C				22.2	15	17	20	20	21	27	27	29	32
Ambient Temp	°C				27	21	13	17	24	36	36	36	36	35
Related Humidity	%				58	56	82	77	59	48	56	64	59	67
DO	mg/L				8.2	9.5	8.2	6.4	7.5	8	7	7	6.7	7.4
pH	-				8.52	8.41	8.34	8.44	8.63	8.46	8.48	8.4	8.48	8.25
NO ₃	mg/L				5	9	13	13	6	6	8.8	6.1	2.9	2.2
T.Kj-N	mg/L				1	1	1	1	1	1	1	1	1	1
PO ₄ -P	mg/L				0.18	0.17	0.27	0.78	0.23	0.11	0.24	0.1	0.09	0.05
T-P	mg/L				0.15	0.24	0.52	0.34	0.43	0.24	0.13	0.1	0.1	0.1
TOC	mg/L				3	3	6	2	4	2	2.5	2	8	3

Item	Unit	Aug-98	Sep-98	Oct-98	Nov-98	Dec-98	Jan-99	Feb-99	Mar-99	Apr-99	May-99	Jun-99	Jul-99	Aug-99
Deir Alla														
Water Temp	°C	32.1	29	28.9	22	15	15	19	20	20	27	27	29	30
Ambient Temp	°C	42.5	34.8	36.4	24	20	14	17	24	34	38	35	34	35
Related Humidity	%		62.6	58	72	49	83	72	59	49	55	67	61	65
DO	mg/L	12.5	9.3	9.5	7.9	7.8	8.8	6.4	6.9	6.7	8.1	7.4	7.3	6.9
pH	-	8.24	8.2	8.31	8.52	8.42	8.42	8.47	8.47	8.39	8.4	8.41	8.39	8.2
NO ₃	mg/L	2.8	3.8	4.5	5	8	13	13	5	7	7.2	6.2	1.9	1.9
T.Kj-N	mg/L	1	1	1.5	1	1	1	1	1	1	1	1	1	1
PO ₄ -P	mg/L	0.3	0.3	0.3	0.2	0.16	0.25	0.53	0.74	0.12	0.13	0.14	0.16	0.04
T-P	mg/L	0.1	0.1	0.1	0.17	0.26	0.11	0.26	0.65	0.18	0.12	0.1	0.1	0.13
TOC	mg/L				2	2	8	4	4	2	2.75	3	6	4

Table RSS Water Quality Monitoring Results for King Abdullah Canal in the Period of Agu-99 to Agu-00

Item	Unit	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00
Yarmouk River														
Water Temp	°C	30	29	26	21	17	17	20	23	24	25	28	31	31
Ambient Temp	°C	38	35	31	27	18	21	22	24	27	29	37	40	36
Related Humidity	%	68	66	66	68	82	62	79	67	72	63	60	62	72
DO	mg/L	6.3	7	7.3	7.2	7.1	9.2	6.5	7.5	4.5	6.8	7.8	5.5	7.1
pH	-	8.1	8.37	8.35	8.32	8.2	8.26	8.43	8.57	8.2	8.07	8.32	8.11	8.2
NO ₃	mg/L	7.4	5.9	9.7	10.7	10.2	18.9	19	13.9	16.3	17.3	17.2	7.8	5.5
T.Kj-N	mg/L	<1	<1	<1	<1	<1	1	1	1.7	<1	<1	<1	<1	3.5
PO ₄ -P	mg/L	0.25	0.18	0.28	0.48	0.13	0.24	0.21	0.5	0.27	0.11	0.16	0.06	0.03
T-P	mg/L	0.14	0.11	0.16	0.22	0.23	0.33	0.27	0.26	0.24	0.14	0.14	0.06	0.07
TOC	mg/L	2.5	3	2		<2	<2	<2						
Mukheiba														
Water Temp	°C	32	31	31	29			30		31	31	33		
Ambient Temp	°C	33	36	28	25			23		27	29	36		
Related Humidity	%	65	61	72	64			71		76	65	56		

Item	Unit	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00
DO	mg/L	7.4	8.2	6.5	7.3			6.3		5.8	6.5	7.8		
pH	-	8.13	8.15	8.15	8.07			7.95		8	7.98	8.16		
NO ₃	mg/L	<0.1	<0.1	0.2	<0.1			<0.1		<0.1	<0.1	<0.1		
T.Kj-N	mg/L	<1	<1	<1	<1			<1		<1	<1	<1		
PO ₄ -P	mg/L	<0.03	<0.03	<0.03	<0.03			<0.03		<0.03	<0.03	<0.03		
T-P	mg/L	<0.01	0.01	0.02	0.01			<0.01		<0.01	0.02	0.02		
TOC	mg/L	2	<2	<2				<2						
Dajania														
Water Temp	°C	31	29								23	27	29	30
Ambient Temp	°C	36	35								28	37	40	35
Related Humidity	%	67	67								65	58	61	74
DO	mg/L	6.6	7.7								7.2	8.4	4.9	7.7
pH	-	8.3	8.39								8.17	8.39	8.41	8.42
NO ₃	mg/L	0.15	0.1								0.3	0.2	0.2	0.4
T.Kj-N	mg/L	<1	<1								<1	<1	<1	<1
PO ₄ -P	mg/L	<0.03	<0.03								<0.03	<0.03	<0.03	0.1
T-P	mg/L	0.06	0.14								0.08	0.04	0.05	0.02
TOC	mg/L	2.5	3											
Waqgas Town														
Water Temp	°C	30	29	27	23	18	16	19	21	26	26	29	30	32
Ambient Temp	°C	34	35	29	25	15	22	24	26	27	29	39	37	35
Related Humidity	%	66	64	68	72	88	66	71	67	80	66	53	62	75
DO	mg/L	5.8	7.1	7.8	6.4	8.7	9.5	8.2	8.9	6.6	7.1	9.2	5.6	7
pH	-	8.25	8.39	8.45	8.21	8.31	8.32	8.74	8.72	8.5	8.09	8.36	8.32	8.4
NO ₃	mg/L	3.4	2.9	5.7	4.8	5.6	19.7	15	7.3	5.8	4.6	3.2	2.9	2.1
T.Kj-N	mg/L	<1	<1	<1	<1	<1	<1	1	1.7	<1	<1	<1	<1	<1
PO ₄ -P	mg/L	0.05	0.08	0.13	0.17	0.11	0.25	0.27	0.07	<0.03	<0.03	<0.03	<0.03	<0.03
T-P	mg/L	0.07	0.11	0.15	0.11	0.08	0.32	0.2	0.08	0.06	0.14	0.05	0.05	0.06
TOC	mg/L	<2	2.2	<2			<2	<2						

Item	Unit	Aug-99	Sep-99	Oct-99	Nov-99	Dec-99	Jan-00	Feb-00	Mar-00	Apr-00	May-00	Jun-00	Jul-00	Aug-00
Abu Habel														
Water Temp	°C	31	30	26	22	18	14	17	20	26	26	30	30	30
Ambient Temp	°C	33	34	29	22	17	22	23	25	29	30	38	35	38
Related Humidity	%	69	66	68	66	82	66	71	64	61	61	53	69	66
DO	mg/L	5.6	6.9	8	7	8.9	9	8.5	8.7	5.8	7.2	9	5.2	6.9
pH	-	8.31	8.41	8.5	8.34	8.36	8.32	8.73	8.62	8.4	8.12	8.39	8.31	8.37
NO ₃	mg/L	2.5	2.6	5.1	5	5.7	20.4	18	6.4	3.5	3.7	3.9	2.7	2.1
T.Kj-N	mg/L	<1	<1	<1	<1	<1	2	1	2.6	<1	<1	<1	<1	<1
PO ₄ -P	mg/L	0.03	0.05	0.16	0.17	0.11	0.71	0.35	0.05	<0.03	<0.03	0.05	<0.03	<0.03
T-P	mg/L	0.05	0.05	0.2	0.13	0.18	0.33	0.22	0.09	0.06	0.16	0.13	0.08	0.15
TOC	mg/L	<2	<2	<2		<2	<2	<2						
Deir Alla														
Water Temp	°C	30	30	27	21	17	13	15	20	25	25	30	30	29
Ambient Temp	°C	31	34	29	24	20	16	19	24	26	29	38	35	36
Related Humidity	%	71	64	72	67	78	68	65	67	67	63	53	68	68
DO	mg/L	6	7.1	6.8	7.9	8.8	10.3	9	9.2	6.5	7.2	8.7	5.9	7.5
pH	-	8.26	8.37	8.49	8.49	8.35	8.31	8.64	8.64	8.5	8.11	8.43	8.4	8.4
NO ₃	mg/L	2.5	1.9	5.2	4.2	5.8	22.4	18.4	7.2	3.9	3.6	4.5	1.8	1.7
T.Kj-N	mg/L	<1	<1	<1	<1	<1	2	2	<1	<1	<1	<1	<1	<1
PO ₄ -P	mg/L	0.04	0.04	0.17	<0.03	0.1	0.42	0.26	0.1	<0.03	0.03	<0.03	0.17	<0.03
T-P	mg/L	0.11	0.1	0.17	0.15	0.14	0.32	0.22	0.13	0.07	0.15	0.14	0.21	0.18
TOC	mg/L	2	2.7	4		<2	<2	<2						

Table WAJ Lab Water Quality Monitoring Results for King Abdullah Canal in 1999 and 2000

A-I-3

Item	Unit	1999												2000							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Nafaq																					
EC	μS/cm	1012	1047	1044	1070	1124	1037	985	988	969	1062	1062	1040	980	996	631	1079	715	1103	1029	1014
pH	unit	8.4	8.34	8.39	8.35	8.23	8.32	8.92	8.22	8.42	8.33	8.33	8.3	8.29	8.34	8.29	8.43	8.33	8.23	8.18	8.2
NO ₃	mg/L	16.4	18.18	16.7	16.61	20.34	17.54	11.16	10.58	7.35	11.19	11.19	13.45	23.04	23.14	20.6	17.98	17.45	14.95	9.13	7.43
PO ₄	mg/L	1.1	0.95	0.66	0.65	0.42	0.24	0.34	0.39	0.26	0.28	0.513	0.45	0.46	0.49	0.63	0.37	0.19	0.16	0.1	0.08
Chl-a	μg/L									2.4	2.272	2.272	3.23	1.7	1.95	1.76	1.86	2.27	2.08	2.43	2.76
TOC	mg/l	2.56	1.75		2.37	2.09	2.68	1.83	1.83	1.68	2.31	2.32	2.34	4.14	2.2	2.19	2.06	1.8	1.7	1.05	1.43
Odor	TON		8		4	17	8	24	17	17	12	17	12	12	8	12	17	17	17	17	12
										17	17	17	17	17	17	24	35	24	24	24	24
NH ₄	mg/L	1.5	0.13	0.11	0.12	0.12	0.11	0.16	0.11	0.12	0.15	0.163	0.163	0.17	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
															0.13	0.13	0.26	0.26	0.2	0.1	0.1
Mukheiba																					
EC	μS/cm	762	750	7.52	749	760	748	756	764		758	758	732		735	483	752	481	772	1166	
pH	unit	8	7.91	7.9	7.77	7.8	7.93	7.82	7.81		7.99	7.99	7.89		7.89	7.95	7.7	7.89	7.97	8.41	
NO ₃	mg/L	2.64	3.35	2.83	2.83	1.36	0.59	5.14	3.62		6.01	6.01	0		2.36	1.49	0.62	0.1	0.22	1.62	
PO ₄	mg/L	<0.02	0.02	0.07	0.04	0.02	0.03	0.02	0.03		0.02	0.03	0.05		0.02	<0.02	<0.2	<0.02	<0.02	<0.02	<0.02
															<0.02	0.02	0.1	0.1	0.06		
Chl-a	μg/L										1.1	1.1	1.41		0.79	1.04	0.94	0.31	1.29	1.92	
TOC	mg/l	0.99	1.03		1.48	0.98	1.28	1.26	1.26		0.67	1.53	1.56		0.79	0.68	0.65	0.98	1.02	2.49	
Odor	TON				8	12	17	17	17		17	17	17		24	17	27	24	17	12	
					24	24	24	24	24								35	24	24	17	17
NH ₄	mg/L	<0.1	<0.1	0.3	0.12	0.1	0.12	0.12	0.11		0.13	0.173	0.26		0.13	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
																0.13	0.26	0.13	0.26		
Dajania																					
EC	μS/cm		1175	1145	1109	1097	1111	1029	1125	1174	1185	1185	1203			769	1174	739	1160		1186
pH	unit		7.96	8.28	8.35	8.54	8.36	8.19	8.26	8.37	8.34	8.34	7.04			8.33	8.52	8.44	8.38		8.42
NO ₃	mg/L		2.39	4.27	3.27	1.67	1.49	7.01	3.91	2.57	6.21	6.21	0.1			10.5	5.06	1.4	1.57		1.48
PO ₄	mg/L		<0.02	0.02	0.02	0.02	0.18	0.09	0.02	0.06	0.02	0.03	0.03			<0.02	<0.02	<0.02	<0.02		<0.02
																0.19	0.1	0.02	0.03		0.3

SA4-15

Item	Unit	1999												2000							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Chl-a	µg/L								4.62	3.734	3.734	1.22			5.28	7.65	3.87	3.35			2.65
TOC	mg/l		3.06		3.43	3.08	3.66	2.85	2.85	3.4	2.98	3.52	3.33			3.22	3.69	3.52	2.92		3.19
Odor	TON		8		6 17	12 24	17	17	17	12	12 17	12 17	12			17 24	12 24	17 24	12 17		17 24
NH ₄	mg/L		0.13	0.11	0.1	0.1	0.11	0.12	<0.1	0.11	0.11	0.13	0.26			<0.1 0.13	<0.1 0.13	<0.1 0.14	<0.1 0.17		<0.1
Abu Seedo																					
EC	µS/cm	962	963	1062	1044	1065	1044	983	1047	1053	1066	1066	1032	932	875	658	1081	701	1118	1127	1127
pH	unit	8.56	8.34	8.41	8.35	8.23	8.3	8.28	8.27	8.35	8.25	8.25	8.22	8.1	8.23	8.48	8.45	8.38	8.35	8.36	8.36
NO ₃	mg/L	12.78	14.2	8.99	8.72	8.84	7.97	6.59	6.39	4.63	8.46	8.46	10.64	21.43	20.05	12.7	9.89	7.19	5.55	4.2	3.65
PO ₄	mg/L	0.92	0.8	0.26	0.23	0.13	0.08	0.07	0.09	0.072	0.125	0.143	0.325	0.57	0.56	0.32	0.17	0.09	0.09	<0.02 0.15	0.06
Chl-a	µg/L									12	4.611	4.611	3.67	2.4	3.32	3.86	5.56	5.51	6.08	5.83	6.95
TOC	mg/l	2.4	1.45		2.66	2.03	3.34	2.46	2.46	2.68	2.29	3.06	2.39	4.29	2.56	2.63	2.76	2.78	2.89	2.09	2.57
Odor	TON	6			8 17	8 17	17	17 24	17 24	12 17	12 17	8 17	8 12	8 24	17 24	12 24	17 35	12 24	17 24	17 24	17 24
NH ₄	mg/L	0.18	<0.1	0.38	0.12	0.11	0.11	0.12	0.11	0.12	0.13	0.173	0.163	0.2	<0.1 0.13	<0.1 0.13	<0.1 0.26	<0.1 0.13	<0.1 0.37	<0.1	<0.1
Wadi Rayan																					
EC	µS/cm			1020	1476	1057	1041	1144	1036	1012	1054	1054	1099	930	899	660	1083	710	1115	1127	1128
pH	unit			8.36	8.26	8.17	8.23	8.32	8.18	8.34	8.31	8.31	8.19	8.24	8.32	8.44	8.48	8.44	8.37	8.37	8.38
NO ₃	mg/L			9.33	8.07	10.58	8.12	5.28	6.36	5.28	9.02	9.02	9.07	22.5	19.58	15.4	9.46	6.33	5.51	4.16	4.28
PO ₄	mg/L			0.193	0.26	0.13	0.02	0.03	0.06	0.11	0.164	0.245	0.275	0.43	0.57	0.3	0.14	0.09	<0.02 0.25	<0.02 0.13	<0.02
Chl-a	µg/L									10.2	4.052	4.052	3.42	2.6	1.71	3.67	5.35	5.33	4.83	4.22	4.19
TOC	mg/l				2.71	2.61	3.24	2.85	2.76	4.11	1.76	3.23	2.91	6.22	2.43	2.75	2.63	2.98	2.97	2.12	2.68
Odor	TON				8 12	8 17	17 24	17 24	17	17	12 17	8 17	8 12	12 17	12 24	12 24	12 17	17 24	12 24	12 24	17 24
NH ₄	mg/L			0.13	0.11	0.11	0.1	0.11	0.11	0.12	0.12	0.163	0.163	0.21	<0.1 0.13	<0.1 0.13	<0.1 0.32	<0.1 0.13	<0.1 0.37	<0.1	<0.1

Item	Unit	1999												2000							
		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
Deir Alla																					
EC	μS/cm	963	964	1038	1040	1058	1032	1028	1024	1043	1058	1058	1065	953	872	655	655	740	1105	1141	1129
pH	unit	8.44	8.35	8.37	8.27	8.11	8.17	7.94	8.13	8.31	8.29	8.29	8.04	8.12	8.32	8.45	8.52	8.38	8.35	8.34	8.37
NO ₃	mg/L	13.09	13.92	8.75	8.17	8.98	8.02	7.86	6.55	4.4	9.13	9.13	9.42	23.38	19.97	15.6	9.46	5.97	5.83	4.46	4.03
PO ₄	mg/L	0.87	0.77	0.19	0.19	0.12	0.11	0.08	0.08	0.074	0.09	0.175	0.185	0.66	0.52	0.31	0.21	0.15	0.13	0.1	0.1
Chl-a	μg/L									12	5.588	5.588	3.39	3	2	4.94	11.38	8.69	7.39	10.16	7.21
TOC	mg/l	2.2	1.41		3.14	2.53	3.43	2.76	2.85	2.66	2.3	3.36	2.69	5.77	2.44	2.66	3.26	2.79	2.68	2.2	2.78
Odor	TON	6	8		4 12	8 17	17	17	17	12 17	12 17	12 17	8 12	8 24	12 24	12 24	17 35	12 24	12 17	12 17	17 24
NH ₄	mg/L	<0.1	0.13	0.12	0.12	0.11	0.1	0.12	0.12	0.12	0.17	0.163	0.32	0.18	<0.1 0.13	<0.1 0.13	<0.1 0.28	<0.1 0.26	<0.1 0.44	<0.1	<0.1

Table A-I-4 RSS Water Quality Monitoring Data for KTD and KAC (1995.2-1996.1)

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	12	0	0	12	12
1	pH		Ave.	7.95		7.93	7.93	7.74	8.1			8.25	8.03
			Max.	8.28		8.21	8.2	8.03	8.36			8.56	8.9
			Min.	7.65		7.44	7.36	7.34	7.72			7.7	7.65
2	DO	mg/L	Ave.										
			Max.										
			Min.										
3	Temp.	°C	Ave.										
			Max.										
			Min.										
4	EC	µS/cm	Ave.	2117		1624	1648	1574	1838			803	1999
			Max.	2450		1840	1900	1840	4200			945	2900
			Min.	1450		1150	1200	1380	1400			470	500
5	TDS	mg/L	Ave.	1231		1031	1042	979	1175			539	1305
			Max.	1358		1222	1213	1288	2576			606	1946
			Min.	964		802	800	766	309			449	424
6	TSS	mg/L	Ave.	72		11	10	13	89			258	175
			Max.	111		20	18	36	537			1028	804
			Min.	34		4	6	2	18			20	30
7	BOD5	mg/L	Ave.	45		17		9	12			3	9
			Max.	62		54		29	22			12	20
			Min.	19		3		2	5			2	2
8	COD	mg/L	Ave.	122		33		35	30			17	30
			Max.	175		40		95	49			32	82
			Min.	83		26		18	22			6	14
9	TP	mg/L	Ave.	9.74		4.01	4.41	4.03	3.53			0.51	2.2
			Max.	14.2		5.54	6.56	6.37	5.74			1.75	5.1
			Min.	3.35		1.86	2.13	1.16	1.02			0.07	0.83

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	12	0	0	12	12
10	TP(f)	mg/L	Ave.	7.76		3.53	4.15	3.57	3.09			0.09	1.85
			Max.	11.38		5.04	5.65	5.94	5.64			0.25	3.93
			Min.	2.61		0.9	2.05	0.45	0.74			0.02	0.05
11	PO4-P	mg/L	Ave.	7.54		3.69	4.04	3.73	3.35			0.19	1.92
			Max.	10.71		5.07	5.38	5.99	5.7			0.47	4.36
			Min.	1.88		0.87	2.05	0.7	0.71			0.02	0.02
12	NH4-N	mg/L	Ave.	39.14		15.07	14.07	17.58	10.97			0.54	5.52
			Max.	54		20	19	26	19			1	11.8
			Min.	24.6		10	9	3	4.8			0.5	1
13	NO3-N	mg/L	Ave.	6.39		3.57	3.49	1.35	6.6			1.98	3.88
			Max.	22.3		9.3	8.5	7.9	16.8			2.9	7
			Min.	0.48		0.32	0.18	0.1	2.3			0.9	2
14	NO2-N	mg/L	Ave.	4.1		0.78	0.93	0.174	1.1			0.023	1.1
			Max.	8.3		1.7	2	1.3	1.6			0.04	2.1
			Min.	0.35		0.3	0.2	0.003	0.58			0.01	0.02
15	Org.-N	mg/L	Ave.	7.91		2	2.17	3.51	2.32			0.52	2.44
			Max.	18.7		4	5	5.67	4.93			0.7	6
			Min.	4		0.7	0.14	2	0.28			0.5	0.7
16	T.Kj-N	mg/L	Ave.	47.05		17.07	16.24	21.09	13.29			1.06	7.96
			Max.	58		23	21.84	28	21			1.7	13
			Min.	38.64		12.1	12.6	8	6.3			1	1.7
17	TN	mg/L	Ave.	57.54		21.42	20.66	22.61	20.98			2.81	12.42
			Max.	76.3		26.5	27.02	36.11	35.9			3.84	19.02
			Min.	45.15		14.62	14.54	9.73	11.05			1.92	3.72
18	HCO3	mg/L	Ave.	597		445	472	464	419			242	392
			Max.	698		536	540	560	566			288	492
			Min.	471		349	393	355	287			178	185
19	MBAS	mg/L	Ave.	2.12		0.44		0.52	0.33			<0.1	0.26
			Max.	8.3		0.55		0.69	0.47				0.68
			Min.	0.63		0.37		0.27	0.21				0.06

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	12	0	0	12	12
20	Cl	mg/L	Ave.	364		287	291	263	330			116	368
			Max.	411		354	363	364	812			151	580
			Min.	260		191	197	204	215			48	55
21	B	mg/L	Ave.	0.5		0.39		0.37	0.44			0.103	0.43
			Max.	0.58		0.51		0.57	0.85			0.11	0.66
			Min.	0.38		0.28		0.29	0.3			0.055	0.06
22	Br	mg/L	Ave.	1.53		1.45		1.68	1.17			0.8	1.55
			Max.	4.7		4.9		6	3.5			2.27	3.5
			Min.	0.7		0.49		0.37	0.32			0.19	0.2
23	Na	mg/L	Ave.	201		162		148	183			72	202
			Max.	238		200		205	430			89	298
			Min.	148		119		117	127			32	36
24	Mg	mg/L	Ave.	43		47		37	43			30	43
			Max.	50		91		57	61			33	54
			Min.	32		29		25	30			22	24
25	Ca	mg/L	Ave.	122		100		114	134			59	139
			Max.	150		132		155	253			71	189
			Min.	97		30		95	101			47	47
26	SAR	mg/L	Ave.	3.94		3.3		3.04	3.4			1.88	3.7
			Max.	4.55		3.91		3.93	6.23			2.32	5.04
			Min.	3.24		2		2.59	2.53			0.94	1.05
27	K	mg/L	Ave.	34		28		25	28			9	28
			Max.	45		36		37	46			11	43
			Min.	25		19		19	19			5	6
28	SO4	mg/L	Ave.	106		111		110	180			71	214
			Max.	121		137		211	492			83	350
			Min.	96		91		81	111			42	47
29	F	mg/L	Ave.										
			Max.										
			Min.										

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	12	0	0	12	12
30	CN	mg/L	Ave.										
			Max.										
			Min.										
31	Phenols	mg/L	Ave.										
			Max.										
			Min.										
32	THBC	CFU/mL	Ave.	2.40E+05		3.44E+03		4.93E+03	1.80E+04			4.70E+03	1.53E+04
			Max.	5.70E+05		3.20E+04		7.10E+04	3.00E+05			3.90E+04	9.50E+04
			Min.	3.90E+04		8.00E+02		5.20E+02	2.00E+03			6.70E+02	2.80E+03
33	TCC	MPN/100mL	Ave.	1.79E+05		1.51E+04		4.00E+03	2.15E+04			5.48E+03	2.74E+04
			Max.	1.60E+06		2.40E+05		5.00E+05	2.40E+05			1.30E+04	1.60E+05
			Min.	7.00E+03		3.00E+03		1.10E+02	2.40E+03			1.10E+03	1.10E+03
34	TFCC	MPN/100mL	Ave.	9.68E+03		5.02E+02		8.46E+01	4.97E+02			1.37E+03	1.96E+03
			Max.	3.00E+05		5.00E+03		3.00E+04	2.40E+03			3.00E+03	1.40E+04
			Min.	1.80E+02		2.00E+02		2.00E+00	2.00E+02			4.00E+02	1.00E+02
35	Chlor.(a)	µg/L	Ave.	54.8		22.1	26.7	12.39	10.64			12.14	10.53
			Max.	93.6		41.4	62.1	36.8	27.5			33.2	22
			Min.	0.75		4.8	0.7	1.9	3			1	2.1
36	Mematodes	Eggs/L	Ave.	0		0		0	0			0	0
			Max.										
			Min.										

Table A-I-5 RSS Water Quality Monitoring Data for KTD and KAC (1996.2-1997.1)

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	6	0	0	12	12
1	pH		Ave.	8.07		8	7.9	7.84	8.11			8.2	8
			Max.	8.4		8.4	8.2	8.25	8.26			8.45	8.22
			Min.	7.85		7.54	7.54	7.48	7.84			7.76	7.81
2	DO	mg/L	Ave.	6.85		4.16	3.45	2.74	8.26			7.6	7.55
			Max.	9.5		5.5	5.53	8.7	9.4			8.5	9.1
			Min.	3.5		2.63	2	0.6	7			6.2	5.4
3	Temp.	°C	Ave.	20.7		22.45	20.88	15	20.24			23.11	21.22
			Max.	25		26.8	26.5	18.3	23.2			29.6	27.7
			Min.	10.5		18.3	12.5	13.5	17			16	13.5
4	EC	µS/cm	Ave.	2303		1989	1998	2009	1934			852	1948
			Max.	2650		2442	2448	2425	2425			972	2650
			Min.	1950		1660	1690	1800	1710			780	1750
5	TDS	mg/L	Ave.	1289		1164	1166	1160	1222			612	1254
			Max.	1426		1328	1336	1326	1384			1268	1790
			Min.	1093		956	988	1086	1148			497	1112
6	TSS	mg/L	Ave.	92		14	13	33	36			61	70
			Max.	170		24	16	236	93			108	150
			Min.	32		6	10	9	22			29	25
7	BOD5	mg/L	Ave.	65		14		18	17			3	14
			Max.	125		28		32	29			6	26
			Min.	33		9		6	9			2	3
8	COD	mg/L	Ave.	149		39		42	33			10	30
			Max.	275		52		93	48			17	56
			Min.	92		31		30	23			3	15
9	TP	mg/L	Ave.	11.11		6.77	7.38	7.72	6.48			0.51	5.47
			Max.	15		8.7	9.5	9	9.3			0.8	10.7
			Min.	8		5.2	5.4	6.28	4.05			0.15	1.57

SA4-22

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	6	0	0	12	12
10	TP(f)	mg/L	Ave.	7.86		6.66	6.67	6.97	5.99			0.29	4.13
			Max.	12		8.3	8.3	8.6	7.8			0.7	5.9
			Min.	4		5.1	5.2	4.35	3.83			0.06	1.13
11	PO4-P	mg/L	Ave.	8.65		6.23	6.42	6.6	5.89			0.32	3.93
			Max.	14		7	7	8	7.6			0.8	5.7
			Min.	4.97		4.8	4.8	1.92	4.05			0.1	1.56
12	NH4-N	mg/L	Ave.	50		27	27	29	19.33			0.71	11
			Max.	66		35	34	37	28			2	19
			Min.	36		20	19	22	8			0.5	0.5
13	NO3-N	mg/L	Ave.	2.17		5.39	3.12	0.48	8.02			2.07	6.39
			Max.	11		22	11.5	3.5	24			5	13
			Min.	0.3		0.4	0.56	0.1	1			0.89	2
14	NO2-N	mg/L	Ave.	2.13		1.08	1.48	0.05	1.79			0.017	1.46
			Max.	5.68		2.7	3.8	0.3	3.04			0.03	2.98
			Min.	0.06		0.1	0.17	0.002	1			0.01	0.03
15	Org.-N	mg/L	Ave.	9.42		5.67	5.67	4	3.83			0.88	4.35
			Max.	17		15	12	10	7			4	15
			Min.	4		1	2	1	2			0.5	0.5
16	T.Kj-N	mg/L	Ave.	60		33	32	33	23			1.58	15.29
			Max.	77		36	38	47	32			6	31
			Min.	42		24	24	23	10			1	1
17	TN	mg/L	Ave.	64		39	37	33	33			4	23
			Max.	79		46	43	47	40			8	37
			Min.	44		33	27	27	28			2	8
18	HCO3	mg/L	Ave.	692		553	551	595	489			282	465
			Max.	817		632	631	658	567			415	566
			Min.	573		487	489	544	336			242	255
19	MBAS	mg/L	Ave.	3.56		0.6		0.89	0.51			<0.1	0.33
			Max.	14		0.7		2.2	0.6				0.58
			Min.	0.9		0.4		0.5	0.38				0.1

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	6	0	0	12	12
20	Cl	mg/L	Ave.	403		350	353	349	349			133	355
			Max.	448		408	414	409	413			163	485
			Min.	329		286	294	316	317			95	317
21	B	mg/L	Ave.	0.54		0.46		0.46	0.46			0.1	0.43
			Max.	0.62		0.51		0.5	0.52			0.12	0.58
			Min.	0.43		0.4		0.39	0.41			0.09	0.35
22	Br	mg/L	Ave.	1.36		0.93		1.04	0.97			0.81	1.26
			Max.	3.3		1.3		2	1.23			1.1	1.9
			Min.	0.73		0.6		0.78	0.8			0.35	1
23	Na	mg/L	Ave.	234		212		209	210			83	216
			Max.	274		260		264	264			92	297
			Min.	180		175		188	190			67	184
24	Mg	mg/L	Ave.	43		43		46	46			33	49
			Max.	55		54		52	56			45	57
			Min.	27		29		38	31			30	42
25	Ca	mg/L	Ave.	130		120		121	132			63	131
			Max.	152		139		155	171			72	208
			Min.	115		104		112	117			57	109
26	SAR	mg/L	Ave.	4.5		4.17		4.05	4			2.09	4.04
			Max.	5.42		4.85		4.98	5.31			2.37	4.66
			Min.	3.59		4		3.67	3.53			1.67	3.66
27	K	mg/L	Ave.	35		32		31	31			8	28
			Max.	43		36		37	37			9	38
			Min.	28		27		26	26			7	22
28	SO4	mg/L	Ave.	114		128		127	168			78	175
			Max.	152		153		156	233			123	267
			Min.	83		115		114	134			59	114
29	F	mg/L	Ave.										
			Max.										
			Min.										

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	0	6	6	12	6	0	0	12	12
30	CN	mg/L	Ave.										
			Max.										
			Min.										
31	Phenols	mg/L	Ave.										
			Max.										
			Min.										
32	THBC	CFU/mL	Ave.	1.14E+06		1.72E+04		1.09E+04	1.34E+04			2.97E+03	2.65E+04
			Max.	5.20E+06		4.50E+05		3.00E+05	3.10E+04			3.30E+05	8.00E+04
			Min.	2.30E+05		3.00E+03		1.40E+03	1.50E+03			5.00E+02	2.50E+03
33	TCC	MPN/100mL	Ave.	1.46E+05		1.64E+04		3.40E+03	3.07E+04			5.59E+03	2.76E+04
			Max.	5.00E+05		2.40E+04		1.60E+05	1.60E+05			2.30E+04	1.70E+05
			Min.	1.70E+04		5.00E+03		7.00E+01	3.00E+03			1.70E+03	5.00E+03
34	TFCC	MPN/100mL	Ave.	1.44E+04		1.12E+03		1.44E+02	4.78E+02			5.52E+02	2.23E+03
			Max.	1.70E+05		5.00E+03		1.10E+04	3.00E+03			2.30E+03	1.30E+04
			Min.	1.70E+03		2.00E+02		2.00E+00	2.00E+02			2.00E+02	4.00E+02
35	Chlor.(a)	µg/L	Ave.	179		55	54	30	19			11	22
			Max.	533		95	86	74	50			26	53
			Min.	2		11	10	13	5			1	5
36	Mematodes	Eggs/L	Ave.	0		0		0	0			0	0
			Max.										
			Min.										

Table A-I-6 RSS Water Quality Monitoring Data for KTD and KAC (1997.2-1998.1)

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	6	12	12	12	12	6	12	12	12
1	pH		Ave.	7.97	8.01	7.83	7.77	7.63	8.12	8.04	8.03	8.06	8.01
			Max.	8.22	8.2	8.12	8.1	7.92	8.42	8.2	8.45	8.38	8.35
			Min.	7.65	7.89	7.6	7.44	7.43	7.93	7.87	7.73	7.52	7.82
2	DO	mg/L	Ave.	7.18	7.24	4.78	4.53	2.83	7.45	7.46	7.38	7.98	7.77
			Max.	8.6	9.7	8.6	9.5	8	10	10.35	10.2	10	10
			Min.	5.29	4.1	1.33	1.55	0.8	4.7	4.4	3.9	5.1	5.4
3	Temp.	°C	Ave.	18.3	19.5	20.1	19.9	14.3	18.1	17.4	23.2	22.2	18.8
			Max.	24	22.7	27.5	26.8	28.4	22.8	20.2	29.5	29.9	24.4
			Min.	11.5	14.5	13	12.7	11.6	13.7	13.5	17.7	12.5	14
4	EC	µS/cm	Ave.	2327	773	1841	1900	1786	1787	1758	922	927	1501
			Max.	2617	890	2125	2158	2213	2228	2177	996	1040	2230
			Min.	1911	665	1316	1546	1600	1450	1420	830	790	1124
5	TDS	mg/L	Ave.	1294	465	1034	1077	973	1052	1055	575	558	888
			Max.	1488	550	1244	1274	1238	1412	1382	624	598	1268
			Min.	1030	398	742	842	884	940	942	550	524	662
6	TSS	mg/L	Ave.	83	24	17	12	22	59	112	74	89	119
			Max.	188	45	62	26	100	200	332	274	277	288
			Min.	44	15	6	7	6	23	20	31	23	23
7	BOD5	mg/L	Ave.	58	<2	13	14	11	14	17		3	12
			Max.	135		27	27	20	24	28	4	7	23
			Min.	30		4	3	2	2	10	<2	2	3
8	COD	mg/L	Ave.	132	4	36	34	32	30	32	8	11	27
			Max.	303	8	44	44	45	39	57	14	18	60
			Min.	68	2	32	25	25	20	17	2	3	12
9	TP	mg/L	Ave.	9.89	0.44	4.61	4.52	5.17	4.54	4.27	0.52	0.4	3.26
			Max.	14.1	0.97	6.24	6.4	7.26	6.05	6.01	1.32	1.29	6.05
			Min.	6.23	0.1	3.26	2.97	3.57	2.84	2.94	0.1	0.1	1.46

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	6	12	12	12	12	6	12	12	12
10	TP(f)	mg/L	Ave.	6.84	0.21	4.24	4.14	4.77	4.08	3.88	0.38	0.24	2.69
			Max.	9.53	0.39	6.13	6.21	6.98	5.7	5.5	1.2	0.5	5.19
			Min.	4.8	0.1	2.4	2.46	3.44	2.66	2.68	0.1	0.1	1.1
11	PO4-P	mg/L	Ave.	7.29	<0.1	4.23	4.02	4.74	3.93	3.81	0.23	0.13	2.6
			Max.	10.77		5.89	5.9	6.59	5.5	5.07	0.54	0.23	4.8
			Min.	4.7		3.09	2.5	3.46	2.1	2.67	0.1	0.08	0.92
12	NH4-N	mg/L	Ave.	31	<1	17	17	21	14	13.33	<1	<1	10
			Max.	38		23	24	24	22	23			22
			Min.	20		11	11	11	1	1			1
13	NO3-N	mg/L	Ave.	9.55	7.92	4.39	4.8	1.47	5.91	6.5	3.23	2.02	4.04
			Max.	23	9	9.3	10.8	8.3	18	19	4.7	3.2	8.7
			Min.	0.86	6.8	0.1	0.1	0.1	1.9	3	2.4	0.7	2.4
14	NO2-N	mg/L	Ave.	4.92	0.02	1.63	1.83	0.64	1.07	0.86	0.012	0.02	0.75
			Max.	14	0.07	4.8	6.4	3.3	1.9	1.5	0.02	0.03	1.56
			Min.	0.09	0.01	0.01	0.01	0.01	0.02	0.03	0.01	0.01	0.03
15	Org.-N	mg/L	Ave.	8.58	<1	5	3	5	5	3.17			3.67
			Max.	17		12	5	10	11	5	4.2	4.8	9
			Min.	1		1	1	2	1	1	<1	<1	0
16	T.Kj-N	mg/L	Ave.	39	<1	22	20	26	19	16			14
			Max.	54		33	26	32	26	23	4.2	4.8	22
			Min.	29		14	15	16	4	3	<1	<1	3
17	TN	mg/L	Ave.	53.8	9.1	28.35	26.72	28.19	25.89	23.71	4.7	3.95	18.37
			Max.	63.4	10.31	43.33	33.49	38.5	32.9	28.53	6.71	5.71	26.13
			Min.	37.5	7.81	22.64	22.64	21.49	21.5	20.9	3.81	2.12	8.56
18	HCO3	mg/L	Ave.	568	298	461	466	491	440	432	276	238	378
			Max.	717	312	486	493	508	482	465	294	288	489
			Min.	477	272	426	422	432	391	392	263	190	245
19	MBAS	mg/L	Ave.	1.92	0.068	0.5	0.43	0.93	0.49	0.35	0.104	0.112	0.24
			Max.	8	0.1	1.8	0.88	2.1	2	0.47	0.24	0.38	0.45
			Min.	0.33	0.03	0.2	0.12	0.38	0.14	0.16	0.02	0.02	0.1

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	6	12	12	12	12	6	12	12	12
20	Cl	mg/L	Ave.	385	72	291	312	279	287	281	118	144	241
			Max.	449	88	367	376	375	382	372	126	168	371
			Min.	295	52	145	229	248	255	256	92	105	179
21	B	mg/L	Ave.	0.53	0.09	0.41	0.44	0.39	0.4	0.38	0.13	0.11	0.3
			Max.	0.67	0.12	0.56	0.57	0.57	0.58	0.58	0.15	0.13	0.52
			Min.	0.36	0.06	0.21	0.3	0.3	0.3	0.3	0.1	0.08	0.17
22	Br	mg/L	Ave.	1.17	0.36	0.81	0.87	0.82	0.83	0.82	0.65	0.91	0.9
			Max.	2	0.5	1.2	1.5	1.2	1.2	1.2	0.86	1.4	1.5
			Min.	0.73	0.1	0.54	0.5	0.47	0.6	0.7	0.36	0.38	0.6
23	Na	mg/L	Ave.	231	36	181	189	170	178	172	86	87	149
			Max.	275	44	237	246	234	234	230	92	102	242
			Min.	172	25	99	145	120	143	150	79	63	110
24	Mg	mg/L	Ave.	47	37	42	41	39	45	38	30	33	37
			Max.	57	43	51	50	58	60	57	36	44	42
			Min.	42	30	33	30	31	38	23	23	28	34
25	Ca	mg/L	Ave.	124	72	107	109	104	114	123	67	60	100
			Max.	155	75	117	122	114	149	143	76	77	142
			Min.	110	65	92	94	95	99	104	62	44	67
26	SAR	mg/L	Ave.	4.43	0.85	3.7	3.87	3.58	3.52	3.44	2.18	2.23	3.18
			Max.	5.06	1.05	4.69	4.8	4.42	4.39	4.07	2.28	2.73	4.59
			Min.	3.45	0.62	2.01	3.16	2.58	2.97	3.09	2.03	1.59	2.61
27	K	mg/L	Ave.	35	4	28	30	27	27	26	9	8	21
			Max.	44	5	37	38	36	36	34	11	11	30
			Min.	22	2	18	21	24	22	24	7	6	13
28	SO4	mg/L	Ave.	128	51	117	112	106	145	148	86	74	123
			Max.	223	76	132	128	139	248	226	96	80	209
			Min.	98	31	96	90	78	115	117	75	68	92
29	F	mg/L	Ave.	0.435	0.435	0.415	0.42			0.375			
			Max.	0.44	0.52	0.43	0.51			0.38			
			Min.	0.43	0.35	0.4	0.33			0.37			

No.	Parameter	Unit	Site	100	150	200	300	600	650	700	C0	C1	C2
			No of Samples	12	6	12	12	12	12	6	12	12	12
30	CN	mg/L	Ave.	<0.03	<0.03	<0.03	<0.03			<0.03			
			Max.										
			Min.										
31	Phenols	mg/L	Ave.	0.123	0.057	0.094	0.18			0.073			
			Max.	0.236	0.103	0.177	1.07			0.136			
			Min.	0.01	0.01	0.01	0.01			0.01			
32	THBC	CFU/mL	Ave.	3.22E+05	1.90E+04	1.74E+04	1.38E+04	6.86E+03	4.63E+04	1.83E+04	1.25E+04	8.46E+03	4.76E+04
			Max.	5.10E+06	4.60E+05	1.90E+04	1.90E+04	3.20E+05	8.50E+05	6.10E+04	2.00E+05	5.30E+05	2.70E+05
			Min.	2.40E+02	2.50E+03	2.20E+02	5.00E+02	8.00E+01	6.50E+03	5.50E+03	1.50E+03	1.10E+03	7.80E+03
33	TCC	MPN/100mL	Ave.	4.65E+04	1.05E+04	1.96E+04	3.11E+03	1.58E+03	1.94E+04	1.13E+04	5.39E+03	3.70E+03	2.94E+04
			Max.	5.00E+05	2.40E+04	8.00E+04	2.30E+05	9.00E+05	1.10E+05	3.00E+04	1.60E+04	1.70E+04	2.16E+06
			Min.	3.00E+03	3.00E+03	1.30E+03	8.00E+01	8.00E+00	2.70E+03	3.00E+03	1.70E+03	5.00E+02	5.00E+03
34	TFCC	MPN/100mL	Ave.	5.66E+03	8.32E+02	2.15E+03	2.06E+02	1.97E+02	2.11E+03	3.36E+03	1.91E+03	1.19E+03	6.08E+03
			Max.	2.40E+05	2.60E+03	3.00E+04	3.00E+04	1.30E+05	5.00E+03	2.40E+04	1.30E+04	8.00E+03	9.00E+04
			Min.	1.40E+03	5.00E+02	2.00E+01	1.10E+01	2.00E+00	2.00E+02	1.30E+03	2.20E+01	4.00E+02	7.00E+02
35	Chlor.(a)	µg/L	Ave.	176	1.82	61	45	29	26	38	6	28	29
			Max.	431	2.6	152	90	59	52	70	13	69	54
			Min.	3	0.6	5	8	8	8	14	2	5	9
36	Mematodes	Eggs/L	Ave.	0	0	0	0	0	0	0	0	0	0
			Max.										
			Min.										