Appendix 2A-1: Summary of WY02 Water Quality Monitoring Results

Florida Department of Environmental Protection

Table 1. Summary of WY02 water quality monitoring results for parameters listed in Section 62-302.530, F.A.C. Only parameters analyzed during the water year for a given region and class are included

Parameter	Area	Class	N	Arithmetic Mean	Std. Deviation	Median	Min.	Max.
Alkalinity	LNWR	INFLOW	143	238.6	72.8	253.2	61.5	376.8
Alkalinity	LNWR	INTERIOR	187	97.6	77.5	76.0	6.3	296.0
Alkalinity	LNWR	OUTFLOW	66	177.3	58.6	175.0	45.9	289.9
Alkalinity	LNWR	RIM	47	242.0	54.6	233.0	113.8	364.0
Alkalinity	WCA2	INFLOW	81	253.6	69.4	245.0	124.2	384.0
Alkalinity	WCA2	INTERIOR	237	221.5	55.0	215.0	60.0	392.0
Alkalinity	WCA2	OUTFLOW	66	197.4	52.9	187.8	123.6	332.7
Alkalinity	WCA3	INFLOW	190	216.8	50.2	215.6	117.1	354.8
Alkalinity	WCA3	INTERIOR	224	164.5	37.8	161.0	79.0	305.4
Alkalinity	WCA3	OUTFLOW	164	156.0	40.2	151.3	89.1	288.1
Alkalinity	ENP	INFLOW	184	168.2	39.8	181.0	89.1	246.5
Alkalinity	ENP	INTERIOR	117	158.7	38.4	155.0	66.0	254.0
Dissolved Oxygen	LNWR	INFLOW	256	3.29	1.98	3.04	0.05	9.8
Dissolved Oxygen	LNWR	INTERIOR	235	3.13	1.56	2.89	0.27	7.2
Dissolved Oxygen	LNWR	OUTFLOW	66	4.15	2.02	3.67	0.21	10.3
Dissolved Oxygen	LNWR	RIM	45	3.72	1.48	3.56	0.55	7.2
Dissolved Oxygen	WCA2	INFLOW	82	3.92	1.75	3.83	0.21	10.3
Dissolved Oxygen	WCA2	INTERIOR	269	3.48	2.46	3.21	0.2	16.1
Dissolved Oxygen	WCA2	OUTFLOW	65	4.38	1.94	4.48	0.8	8.6
Dissolved Oxygen	WCA3	INFLOW	275	4.26	2.08	4.02	0.73	11
Dissolved Oxygen	WCA3	INTERIOR	269	3.25	1.64	2.95	0.21	8
Dissolved Oxygen	WCA3	OUTFLOW	212	3.84	1.83	3.64	0.63	12.4
Dissolved Oxygen	ENP	INFLOW	293	3.95	1.89	4.05	0.22	12.4
Dissolved Oxygen	ENP	INTERIOR	113	5.36	1.93	5.12	1.56	10.5
pH	LNWR	INFLOW	256	7.47	0.25	7.43	6.91	8.30
pH	LNWR	INTERIOR	235	6.89	0.49	7.00	5.60	7.90
pH	LNWR	OUTFLOW	65	7.48	0.30	7.51	6.67	8.00

Parameter	Area	Class	N	Arithmetic Mean	Std. Deviation	Median	Min.	Max.
pH	LNWR	RIM	46	7.50	0.31	7.54	6.35	8.10
pH	WCA2	INFLOW	82	7.58	0.21	7.59	7.02	7.98
pH	WCA2	INTERIOR	270	7.45	0.24	7.42	6.54	8.40
pH	WCA2	OUTFLOW	66	7.54	0.25	7.50	6.99	8.20
pH	WCA3	INFLOW	280	7.46	0.33	7.42	6.32	8.60
pH	WCA3	INTERIOR	269	7.34	0.21	7.33	6.63	7.80
pH	WCA3	OUTFLOW	214	7.36	0.30	7.30	6.16	9.00
pH	ENP	INFLOW	297	7.38	0.29	7.32	6.16	9.00
pH	ENP	INTERIOR	119	7.58	0.37	7.58	4.45	8.30
Conductivity	LNWR	INFLOW	256	1054	299	1151	209	1607
Conductivity	LNWR	INTERIOR	226	343	296	235	44	1270
Conductivity	LNWR	OUTFLOW	65	723	268	711	188	1265
Conductivity	LNWR	RIM	45	963	259	945	429	1490
Conductivity	WCA2	INFLOW	82	940	202	946	461	1269
Conductivity	WCA2	INTERIOR	270	943	275	909	185	2069
Conductivity	WCA2	OUTFLOW	61	795	190	766	455	1237
Conductivity	WCA3	INFLOW	269	736	189	751	9	1261
Conductivity	WCA3	INTERIOR	274	466	157	444	199	1010
Conductivity	WCA3	OUTFLOW	214	413	140	385	198	870
Conductivity	ENP	INFLOW	296	453	115	498	198	678
Conductivity	ENP	INTERIOR	118	432	123	440	202	1156
Total Antimony	WCA3	INFLOW	5	3.07	1.81	4.16	<2.2	4.7
Total Arsenic	WCA3	INFLOW	5	3.16	1	3.41	2.116	4.5
Total Beryllium	WCA3	INFLOW	5	0.578	0.415001	0.836	<0.10	0.924
Total Cadmium	LNWR	INFLOW	3	<0.3	0.00	<0.3	<0.3	<0.3
Total Cadmium	WCA2	INFLOW	1	<0.3		<0.3	<0.3	<0.3
Total Cadmium	WCA3	INFLOW	9	<0.3	0.00	<0.3	<0.3	<0.3
Total Cadmium	WCA3	OUTFLOW	8	<0.3	0.00	<0.3	<0.3	<0.3
Total Cadmium	ENP	INFLOW	16	<0.3	0.00	<0.3	<0.3	<0.3
Total Copper	LNWR	INFLOW	3	1.09	0.84	0.60	<1.2	2.06
Total Copper	WCA2	INFLOW	1	2.58		2.58	<1.2	2.58
Total Copper	WCA3	INFLOW	9	1.69	0.58	1.90	<1.2	2.56
Total Copper	WCA3	OUTFLOW	8	0.98	0.56	0.60	<1.2	1.98
Total Copper	ENP	INFLOW	16	0.92	0.47	0.60	<1.2	1.98
Total Iron	LNWR	INFLOW	23	208	203	127	12	806
Total Iron	LNWR	INTERIOR	41	66	61	55	<3	271
Total Iron	LNWR	OUTFLOW	14	47	49	22	7	172
Total Iron	LNWR	RIM	7	55	23	62	23	81
Total Iron	WCA2	INFLOW	15	43	40	23	7	143
Total Iron	WCA2	INTERIOR	16	16	14	12	4	61
Total Iron	WCA2	OUTFLOW	6	42	26	37	12	81

Parameter	Area	Class	N	Arithmetic Mean	Std. Deviation	Median	Min.	Max.
Total Iron	WCA3	INFLOW	35	178	155	133	12	634
Total Iron	WCA3	INTERIOR	32	130	108	140	<3	460
Total Iron	WCA3	OUTFLOW	26	104	38	110	27	182
Total Iron	ENP	INFLOW	42	151	95	120	17	527
Total Lead	WCA3	INFLOW	5	<0.8	0	<0.8	<0.8	<0.8
Total Nickel	WCA3	INFLOW	5	0.4264	0.242	0.25	0.25	0.7
Total Selenium	WCA3	INFLOW	5	0.63	0.3	0.5	0.5	1.2
Total Silver	WCA3	INFLOW	5	<0.02	0	<0.02	<0.02	<0.02
Total Thallium	WCA3	INFLOW	5	<0.5	0	<0.5	<0.5	<0.5
Total Zinc	LNWR	INFLOW	3	<4	0	<4	<4	<4
Total Zinc	WCA2	INFLOW	1	<4	0	<4	<4	<4
Total Zinc	WCA3	INFLOW	9	<4	0	<4	<4	<4
Total Zinc	WCA3	OUTFLOW	8	<4	0	<4	<4	<4
Total Zinc	ENP	INFLOW	16	<4	0	<4	<4	<4
Turbidity	LNWR	INFLOW	143	4.55	5.33	2.87	0.60	36.80
Turbidity	LNWR	INTERIOR	125	0.79	0.36	0.76	0.30	2.80
Turbidity	LNWR	OUTFLOW	66	2.97	5.02	1.74	0.59	36.70
Turbidity	LNWR	RIM	20	7.82	6.39	5.36	0.82	20.90
Turbidity	WCA2	INFLOW	55	3.22	5.21	2.03	0.51	36.70
Turbidity	WCA2	INTERIOR	113	1.19	1.12	0.80	0.35	7.80
Turbidity	WCA2	OUTFLOW	66	1.45	0.94	1.15	0.36	4.20
Turbidity	WCA3	INFLOW	176	2.36	2.46	1.67	0.34	21.80
Turbidity	WCA3	INTERIOR	170	0.83	0.59	0.64	0.30	5.30
Turbidity	WCA3	OUTFLOW	164	2.75	7.54	1.00	0.38	71.40
Turbidity	ENP	INFLOW	177	2.75	7.26	1.14	0.38	71.40
Turbidity	ENP	INTERIOR	77	1.41	1.35	0.94	0.26	7.40
Union Ammonia	LNWR	INFLOW	142	0.0036	0.0035	0.0025	0.00003	0.0218
Union Ammonia	LNWR	INTERIOR	138	0.0008	0.0031	0.0001	0.00000	0.0295
Union Ammonia	LNWR	OUTFLOW	65	0.0010	0.0027	0.0004	0.00002	0.0179
Union Ammonia	LNWR	RIM	32	0.0020	0.0024	0.0017	0.00003	0.0127
Union Ammonia	WCA2	INFLOW	79	0.0134	0.0242	0.0011	0.00011	0.107
Union Ammonia	WCA2	INTERIOR	161	0.0009	0.0018	0.0004	0.00003	0.0153
Union Ammonia	WCA2	OUTFLOW	66	0.0014	0.0022	0.0006	0.00007	0.0101
Union Ammonia	WCA3	INFLOW	205	0.0020	0.0027	0.0010	0.00005	0.0158
Union Ammonia	WCA3	INTERIOR	118	0.0005	0.0012	0.0002	0.00004	0.00922
Union Ammonia	WCA3	OUTFLOW	162	0.0009	0.0015	0.0004	0.00003	0.0112
Union Ammonia	ENP	INFLOW	184	0.0012	0.0013	0.0006	0.00003	0.00544
Union Ammonia	ENP	INTERIOR	115	0.0008	0.0012	0.0005	0.00000	0.00833