

Appendix 3A-1: Summary of Water Year 2008 Water Quality Monitoring Results

Florida Department of Environmental Protection

Table 1. Summary of Water Year 2008 water quality monitoring results for variables listed in Section 62-302.530, Florida Administrative Code. Only water quality variables analyzed during the water year for a given region and site class are included. The "Number of Excluded Results" column provides the number of results excluded due to quality assurance/quality control screening protocols.

Parameter	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Number of Excluded Results	Percent BDL (%)
Alkalinity	mg CaCO ₃ /L	ENP	INFLOW	148.5	39.5	112.0	143.0	194.0	93.0	218.0	39	0	0
Alkalinity	mg CaCO ₃ /L	ENP	INTERIOR	142.9	34.8	130.0	145.0	163.0	1.0	207.0	55	0	2
Alkalinity	mg CaCO ₃ /L	LNWR	INFLOW	195.3	50.3	149.3	197.0	231.5	107.0	313.0	152	0	0
Alkalinity	mg CaCO ₃ /L	LNWR	INTERIOR	52.5	46.3	25.0	41.0	64.5	6.0	229.5	192	0	0
Alkalinity	mg CaCO ₃ /L	LNWR	OUTFLOW	106.1	32.5	86.0	107.0	125.0	49.0	200.0	43	0	0
Alkalinity	mg CaCO ₃ /L	LNWR	RIM	156.6	32.2	136.8	151.5	166.8	108.0	237.0	20	0	0
Alkalinity	mg CaCO ₃ /L	WCA2	INFLOW	212.5	91.7	123.8	226.0	274.3	52.0	414.0	94	0	0
Alkalinity	mg CaCO ₃ /L	WCA2	INTERIOR	229.3	61.6	190.0	219.0	262.0	108.0	477.0	208	0	0
Alkalinity	mg CaCO ₃ /L	WCA2	OUTFLOW	211.5	33.8	184.5	213.0	238.0	150.0	282.0	45	0	0
Alkalinity	mg CaCO ₃ /L	WCA3	INFLOW	216.4	46.3	184.0	220.0	246.0	97.0	315.0	109	0	0
Alkalinity	mg CaCO ₃ /L	WCA3	INTERIOR	181.9	43.0	145.0	184.0	209.0	105.0	303.0	125	0	0
Alkalinity	mg CaCO ₃ /L	WCA3	OUTFLOW	152.2	48.9	112.0	143.0	172.0	93.0	261.0	39	0	0
Dissolved Oxygen	mg/L	ENP	INFLOW	5.3	2.0	3.9	5.0	6.2	0.9	15.3	238	8	0
Dissolved Oxygen	mg/L	ENP	INTERIOR	4.6	2.1	3.0	4.2	6.1	0.9	10.1	63	17	0
Dissolved Oxygen	mg/L	LNWR	INFLOW	4.5	2.5	2.5	4.5	6.3	0.3	13.0	280	0	0
Dissolved Oxygen	mg/L	LNWR	INTERIOR	4.1	2.0	2.6	4.0	5.5	0.1	9.4	214	16	0
Dissolved Oxygen	mg/L	LNWR	OUTFLOW	6.2	1.4	5.0	6.4	7.3	2.9	8.6	52	0	0
Dissolved Oxygen	mg/L	LNWR	RIM	4.8	1.5	3.5	4.9	5.6	2.1	7.9	19	0	0
Dissolved Oxygen	mg/L	WCA2	INFLOW	4.5	1.8	3.2	4.5	5.6	0.9	8.4	149	3	0
Dissolved Oxygen	mg/L	WCA2	INTERIOR	3.9	2.0	2.2	3.7	5.4	0.2	9.8	255	0	0

Table 1. Continued.

Parameter	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Number of Excluded Results	Percent BDL (%)
Dissolved Oxygen	mg/L	WCA2	OUTFLOW	4.9	2.0	3.3	5.1	6.3	0.9	9.2	71	2	0
Dissolved Oxygen	mg/L	WCA3	INFLOW	4.8	2.2	3.1	4.7	6.4	0.4	10.1	395	3	0
Dissolved Oxygen	mg/L	WCA3	INTERIOR	4.2	1.7	3.0	4.1	5.5	0.8	8.9	185	0	0
Dissolved Oxygen	mg/L	WCA3	OUTFLOW	4.9	1.9	3.7	4.7	5.6	1.4	15.3	217	4	0
pH	Units	ENP	INFLOW	7.5	0.3	7.2	7.4	7.6	7.0	8.3	243	5	0
pH	Units	ENP	INTERIOR	7.6	0.3	7.4	7.6	7.7	7.1	8.4	81	0	0
pH	Units	LNWR	INFLOW	7.5	0.3	7.3	7.5	7.7	6.8	8.4	280	0	0
pH	Units	LNWR	INTERIOR	6.6	0.4	6.3	6.6	6.9	5.8	7.8	224	6	0
pH	Units	LNWR	OUTFLOW	7.4	0.4	7.2	7.4	7.7	6.4	8.0	53	0	0
pH	Units	LNWR	RIM	7.6	0.2	7.5	7.6	7.8	7.0	7.9	19	0	0
pH	Units	WCA2	INFLOW	7.6	0.2	7.4	7.6	7.7	6.7	8.2	152	0	0
pH	Units	WCA2	INTERIOR	7.4	0.3	7.2	7.4	7.6	6.7	8.1	254	0	0
pH	Units	WCA2	OUTFLOW	7.7	0.3	7.5	7.7	8.0	7.2	8.4	73	0	0
pH	Units	WCA3	INFLOW	7.6	0.3	7.3	7.5	7.8	6.7	8.7	396	2	0
pH	Units	WCA3	INTERIOR	7.2	0.3	7.0	7.2	7.4	6.5	7.9	184	1	0
pH	Units	WCA3	OUTFLOW	7.4	0.2	7.2	7.4	7.5	7.0	8.3	218	5	0
Specific Conductance	µmho/cm	ENP	INFLOW	508	163	367	523	628	205	874	246	2	0
Specific Conductance	µmho/cm	ENP	INTERIOR	437	146	344	433	487	186	980	81	0	0
Specific Conductance	µmho/cm	LNWR	INFLOW	805	216	634	790	963	359	1440	280	0	0
Specific Conductance	µmho/cm	LNWR	INTERIOR	222	172	114	162	249	64	918	210	20	0
Specific Conductance	µmho/cm	LNWR	OUTFLOW	450	143	358	466	544	196	808	53	0	0
Specific Conductance	µmho/cm	LNWR	RIM	671	153	576	685	751	414	980	19	0	0
Specific Conductance	µmho/cm	WCA2	INFLOW	907	294	764	933	1082	203	1612	152	0	0
Specific Conductance	µmho/cm	WCA2	INTERIOR	955	333	731	942	1142	245	2590	252	3	0
Specific Conductance	µmho/cm	WCA2	OUTFLOW	778	180	647	744	926	411	1112	73	0	0
Specific Conductance	µmho/cm	WCA3	INFLOW	754	176	604	790	885	294	1172	398	0	0
Specific Conductance	µmho/cm	WCA3	INTERIOR	587	191	431	545	757	282	1074	185	0	0
Specific Conductance	µmho/cm	WCA3	OUTFLOW	503	182	352	450	681	205	893	223	0	0
Sulfate	mg/l	ENP	INFLOW	4.8	6.0	0.2	1.1	8.7	0.1	19.4	22	0	9
Sulfate	mg/l	ENP	INTERIOR	5.2	20.6	0.1	0.7	2.6	0.1	147.0	55	0	24
Sulfate	mg/l	LNWR	INFLOW	41.5	26.7	23.3	35.8	51.4	5.0	172.0	86	0	0

Table 1. Continued.

Parameter	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Number of Excluded Results	Percent BDL (%)
Sulfate	mg/l	LNWR	INTERIOR	3.3	6.5	0.1	0.8	2.8	0.1	45.0	217	0	29
Sulfate	mg/l	LNWR	OUTFLOW	14.5	7.4	7.9	15.8	19.4	2.3	27.7	20	0	0
Sulfate	mg/l	LNWR	RIM	33.4	12.1	24.3	31.5	41.5	15.0	57.9	20	0	0
Sulfate	mg/l	WCA2	INFLOW	31.8	14.1	21.4	30.5	39.9	2.5	64.8	60	1	0
Sulfate	mg/l	WCA2	INTERIOR	23.9	23.8	7.8	15.9	35.4	1.8	200.0	204	0	0
Sulfate	mg/l	WCA2	OUTFLOW	23.1	12.9	10.6	23.9	37.2	4.5	41.4	20	0	0
Sulfate	mg/l	WCA3	INFLOW	17.8	14.3	6.7	11.9	30.6	0.1	55.7	58	0	2
Sulfate	mg/l	WCA3	INTERIOR	10.8	14.9	0.4	3.2	20.5	0.1	110.0	125	0	8
Sulfate	mg/l	WCA3	OUTFLOW	4.3	5.5	0.2	1.5	7.8	0.1	19.4	34	0	12
Total Iron	µg/L	ENP	INFLOW	200.0	108.5	110.0	173.0	287.8	108.0	403.0	8	0	0
Total Iron	µg/L	LNWR	INFLOW	150.5	65.8		150.5		104.0	197.0	2	0	0
Total Iron	µg/L	LNWR	INTERIOR	27.9	29.0	8.0	17.5	35.3	1.5	155.0	114	0	1
Total Iron	µg/L	LNWR	OUTFLOW	23.6	12.1	12.5	23.0	35.5	5.0	39.0	13	0	0
Total Iron	µg/L	LNWR	RIM	12.4	8.5	6.0	9.0	16.0	5.0	34.0	20	0	0
Total Iron	µg/L	WCA2	INFLOW	24.0	9.5	19.0	23.0	30.0	5.0	43.0	35	0	0
Total Iron	µg/L	WCA2	INTERIOR	16.3	11.2	7.0	13.0	22.5	4.0	59.5	109	0	0
Total Iron	µg/L	WCA2	OUTFLOW	25.5	15.7	10.8	23.0	42.3	9.0	45.0	8	0	0
Total Iron	µg/L	WCA3	INFLOW	54.5	87.1	14.0	34.3	46.0	9.0	469.0	30	0	0
Total Iron	µg/L	WCA3	INTERIOR	149.7	127.4	26.5	127.0	248.5	5.0	494.0	33	0	0
Total Iron	µg/L	WCA3	OUTFLOW	146.3	46.2	108.8	126.5	203.0	108.0	206.0	6	0	0
Turbidity	NTU	ENP	INFLOW	1.9	1.5	1.2	1.4	2.2	0.6	11.3	59	0	0
Turbidity	NTU	ENP	INTERIOR	1.2	1.2	0.5	0.8	1.3	0.1	7.5	55	0	2
Turbidity	NTU	LNWR	INFLOW	4.0	3.5	2.0	2.9	4.0	1.1	16.9	54	0	0
Turbidity	NTU	LNWR	INTERIOR	0.7	0.2	0.6	0.7	0.8	0.3	1.4	114	0	0
Turbidity	NTU	LNWR	OUTFLOW	1.9	1.9	0.9	1.1	2.0	0.6	9.4	53	0	0
Turbidity	NTU	WCA2	INFLOW	2.0	1.7	1.0	1.5	2.5	0.6	8.5	63	0	0
Turbidity	NTU	WCA2	INTERIOR	1.1	1.0	0.6	0.8	1.1	0.4	7.7	125	0	0
Turbidity	NTU	WCA2	OUTFLOW	2.3	2.0	1.2	1.6	3.2	0.6	15.9	73	0	0
Turbidity	NTU	WCA3	INFLOW	2.6	2.1	1.3	2.1	3.4	0.6	15.9	171	0	0
Turbidity	NTU	WCA3	INTERIOR	0.9	1.0	0.6	0.7	0.9	0.4	7.7	105	0	0
Turbidity	NTU	WCA3	OUTFLOW	2.3	1.6	1.2	1.8	2.9	0.3	11.3	77	0	0

Table 1. Continued.

Parameter	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Number of Excluded Results	Percent BDL (%)
Un-ionized ammonia	µg/L	ENP	INFLOW	1.1	0.8	0.5	0.8	1.5	0.1	2.9	72	1	3
Un-ionized ammonia	µg/L	ENP	INTERIOR	1.2	0.9	0.5	0.8	1.6	0.1	4.2	52	3	4
Un-ionized ammonia	µg/L	LNWR	INFLOW	3.0	3.7	0.7	1.6	3.5	0.1	17.1	135	8	2
Un-ionized ammonia	µg/L	LNWR	INTERIOR	0.1	0.2	0.0	0.0	0.1	0.0	1.2	104	1	1
Un-ionized ammonia	µg/L	LNWR	OUTFLOW	0.4	0.4	0.1	0.3	0.7	0.0	1.6	49	0	4
Un-ionized ammonia	µg/L	WCA2	INFLOW	2.0	3.0	0.3	0.8	2.7	0.0	18.6	75	1	2
Un-ionized ammonia	µg/L	WCA2	INTERIOR	0.7	0.9	0.2	0.4	0.8	0.0	7.6	108	7	1
Un-ionized ammonia	µg/L	WCA2	OUTFLOW	1.7	2.1	0.3	0.8	2.1	0.0	7.1	44	2	11
Un-ionized ammonia	µg/L	WCA3	INFLOW	2.2	3.0	0.4	0.8	2.8	0.0	12.7	106	2	10
Un-ionized ammonia	µg/L	WCA3	INTERIOR	0.4	0.6	0.1	0.2	0.5	0.0	4.0	103	2	1
Un-ionized ammonia	µg/L	WCA3	OUTFLOW	1.3	1.2	0.5	0.9	2.2	0.1	5.3	66	1	2