

Appendix 3A-1: Summary of Water Year 2006 Water Quality Monitoring Results

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Table 1. Summary of Water Year 2006 (WY2006) water quality monitoring results for variables listed in Section 62-302.530, Florida Administrative Code (F.A.C.). Includes only water quality variables analyzed during the water year for a given region and site class. The "Number of Excluded Results" column shows the number of results excluded due to quality assurance/quality control screening protocols.

Variable	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Percent BDL (%)	Number of Excluded Results
Alkalinity	mg CaCO ₃ /L	Refuge	Inflow	80	250	55	197	247	305	163	349	0	1
Alkalinity	mg CaCO ₃ /L	Refuge	Rim	48	235	45	210	248	266	90	315	0	0
Alkalinity	mg CaCO ₃ /L	Refuge	Interior	260	75	95	33	50	90	5.0	268	0	20
Alkalinity	mg CaCO ₃ /L	Refuge	Outflow	49	182	66	140	182	228	74	276	0	0
Alkalinity	mg CaCO ₃ /L	WCA-2	Inflow	90	269	44	220	270	324	74	391	0	1
Alkalinity	mg CaCO ₃ /L	WCA-2	Interior	260	244	40	198	233	285	126	404	0	8
Alkalinity	mg CaCO ₃ /L	WCA-2	Outflow	96	216	37	185	218	258	120	312	0	0
Alkalinity	mg CaCO ₃ /L	WCA-3	Inflow	204	213	41	179	217	247	117	315	0	2
Alkalinity	mg CaCO ₃ /L	WCA-3	Interior	311	165	256	135	162	189	74	286	0	0
Alkalinity	mg CaCO ₃ /L	WCA-3	Outflow	135	154	85	121	149	183	85	246	0	0
Alkalinity	mg CaCO ₃ /L	Park	Inflow	128	159	151	135	166	188	87	246	0	3
Alkalinity	mg CaCO ₃ /L	Park	Interior	73	159	115	128	154	192	71	277	0	1
Dissolved Oxygen	mg/L	Refuge	Inflow	131	3.10	2.03	1.27	3.12	4.54	0.11	9.72	0	6
Dissolved Oxygen	mg/L	Refuge	Rim	39	4.55	2.42	3.01	4.53	6.22	0.80	12.00	0	1
Dissolved Oxygen	mg/L	Refuge	Interior	310	3.98	2.25	2.22	3.85	5.56	0.28	11.20	0	30
Dissolved Oxygen	mg/L	Refuge	Outflow	45	4.78	2.05	3.19	4.29	6.61	1.24	9.70	0	4
Dissolved Oxygen	mg/L	WCA-2	Inflow	146	4.28	1.85	2.92	3.95	5.79	0.22	9.00	0	1
Dissolved Oxygen	mg/L	WCA-2	Interior	295	2.63	1.86	1.02	2.39	3.82	0.08	8.00	0	0
Dissolved Oxygen	mg/L	WCA-2	Outflow	96	4.03	1.76	2.78	3.57	5.58	0.61	8.36	0	0
Dissolved Oxygen	mg/L	WCA-3	Inflow	354	3.89	1.94	2.54	3.59	5.00	0.28	11.60	0	3
Dissolved Oxygen	mg/L	WCA-3	Interior	348	2.92	1.77	1.46	2.61	4.16	0.03	8.41	0	0
Dissolved Oxygen	mg/L	WCA-3	Outflow	190	3.52	1.52	2.40	3.13	4.61	0.51	7.44	0	9
Dissolved Oxygen	mg/L	Park	Inflow	252	3.51	1.94	2.18	3.24	4.55	0.18	9.15	0	7
Dissolved Oxygen	mg/L	Park	Interior	80	4.83	2.28	3.04	4.25	6.70	0.77	9.55	0	0

Variable	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Percent BDL (%)	Number of Excluded Results
pH	Units	Refuge	Inflow	136	7.52	0.24	7.35	7.50	7.67	7.00	8.17	0	1
pH	Units	Refuge	Rim	46	7.53	0.28	7.24	7.57	7.79	6.94	8.11	0	0
pH	Units	Refuge	Interior	334	6.72	0.37	6.44	6.71	6.99	5.72	7.90	0	24
pH	Units	Refuge	Outflow	49	7.60	0.37	7.31	7.51	7.95	7.07	8.38	0	0
pH	Units	WCA-2	Inflow	147	7.58	0.25	7.44	7.59	7.70	6.72	8.22	0	0
pH	Units	WCA-2	Interior	280	7.41	0.25	7.22	7.42	7.59	6.57	8.15	0	15
pH	Units	WCA-2	Outflow	93	7.50	0.30	7.42	7.54	7.69	6.23	7.99	0	3
pH	Units	WCA-3	Inflow	352	7.44	0.31	7.26	7.47	7.62	6.41	8.70	0	5
pH	Units	WCA-3	Interior	344	7.28	0.27	7.12	7.26	7.45	4.73	7.99	0	4
pH	Units	WCA-3	Outflow	199	7.28	0.22	7.14	7.29	7.41	6.65	7.86	0	1
pH	Units	Park	Inflow	261	7.30	0.27	7.14	7.27	7.41	6.57	8.19	0	0
pH	Units	Park	Interior	80	7.63	0.27	7.41	7.54	7.88	7.23	8.23	0	0
Specific Conductance	µmho/cm	Refuge	Inflow	136	1073	244	974	1123	1254	480	1455	0	1
Specific Conductance	µmho/cm	Refuge	Rim	45	992	224	925	1048	1123	334	1354	0	1
Specific Conductance	µmho/cm	Refuge	Interior	317	297	243	136	202	352	49	1130	0	41
Specific Conductance	µmho/cm	Refuge	Outflow	49	774	247	603	798	996	255	1217	0	0
Specific Conductance	µmho/cm	WCA-2	Inflow	147	1029	259	848	1040	1223	339	1498	0	0
Specific Conductance	µmho/cm	WCA-2	Interior	295	1034	259	830	1008	1219	403	1800	0	0
Specific Conductance	µmho/cm	WCA-2	Outflow	96	828	177	678	813	976	459	1241	0	0
Specific Conductance	µmho/cm	WCA-3	Inflow	356	713	190	590	735	820	285	1241	0	1
Specific Conductance	µmho/cm	WCA-3	Interior	348	478	153	358	448	586	212	978	0	0
Specific Conductance	µmho/cm	WCA-3	Outflow	193	443	154	327	417	557	194	1098	0	7
Specific Conductance	µmho/cm	Park	Inflow	252	478	118	385	502	554	208	823	0	9
Specific Conductance	µmho/cm	Park	Interior	80	494	169	388	493	598	167	877	0	0

Variable	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Percent BDL (%)	Number of Excluded Results
Total Cadmium	µg/L	Refuge	Inflow	4	0.48	0.38	<0.30	0.43	0.85	<0.30	0.90	50.0	0
Total Cadmium	µg/L	WCA-3	Inflow	9	0.62	0.60	<0.30	0.30	1.20	<0.30	1.70	44.4	0
Total Cadmium	µg/L	WCA-3	Outflow	3	0.60	0.78	<0.30	<0.30	1.50	<0.30	1.50	67	0
Total Cadmium	µg/L	Park	Inflow	9	0.54	0.53	<0.30	0.30	1.05	<0.30	1.50	44.4	0
Total Copper	µg/L	Refuge	Inflow	4	4.3	2.7	2.5	3.3	7.1	2.4	8.2	0	0
Total Copper	µg/L	WCA-3	Inflow	9	1.8	0.7	1.3	2.0	2.5	<1.2	2.7	11	0
Total Copper	µg/L	WCA-3	Outflow	3	<1.2		<1.2	<1.2	<1.2	<1.2	<1.2	100	0
Total Copper	µg/L	Park	Inflow	9	1.0	0.6	<1.2	<1.2	1.4	<1.2	2.4	66.7	0
Total Iron	µg/L	Refuge	Inflow	8	368	170	149	255	651	98	749	0	1
Total Iron	µg/L	Refuge	Rim	24	19	10	11	17	25	7	44	0	0
Total Iron	µg/L	Refuge	Interior	132	22	26	7	11	26	<3.0	131	15.9	13
Total Iron	µg/L	Refuge	Outflow	13	107		13	20	129	10	525	0	0
Total Iron	µg/L	WCA-2	Inflow	38	42		17	20	29	2.5	525	7.9	0
Total Iron	µg/L	WCA-2	Interior	160	9.5	7.1	5.0	8.0	11	<2.0	48	20.9	0
Total Iron	µg/L	WCA-2	Outflow	8	25		20	25	26	14	44	0	0
Total Iron	µg/L	WCA-3	Inflow	31	130	8.7	29	64	208	14	657	0	0
Total Iron	µg/L	WCA-3	Interior	141	122		64	92	165	4.0	631	2.0	1
Total Iron	µg/L	WCA-3	Outflow	23	128		63	99	156	20	322	0	0
Total Iron	µg/L	Park	Inflow	30	155	86	63	114	242	17	412	0	0
Total Zinc	µg/L	Refuge	Inflow	4	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	100	0
Total Zinc	µg/L	WCA-3	Inflow	9	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	100	0
Total Zinc	µg/L	WCA-3	Outflow	3	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	100	0
Total Zinc	µg/L	Park	Inflow	9	<4.0		<4.0	<4.0	<4.0	<4.0	<4.0	100	0

Variable	Units	Area	Class	N	Arithmetic Mean	Std. Deviation	25th Percentile	Median	75th Percentile	Min.	Max.	Percent BDL (%)	Number of Excluded Results
Turbidity	NTU	Refuge	Inflow	80	4.40	2.70	2.53	3.70	5.85	1.00	16.9	0	1
Turbidity	NTU	Refuge	Rim	24	6.45	3.95	2.93	5.80	9.00	2.20	13.8	0	0
Turbidity	NTU	Refuge	Interior	155	0.78	0.44	0.60	0.70	0.90	0.30	4.20	0	20
Turbidity	NTU	Refuge	Outflow	49	4.20	4.03	1.90	3.00	4.75	0.80	18.8	0	0
Turbidity	NTU	WCA-2	Inflow	68	2.96	3.36	1.10	1.85	3.18	0.70	18.8	0	0
Turbidity	NTU	WCA-2	Interior	127	1.19	1.50	0.60	0.80	1.20	0.40	13.7	0	0
Turbidity	NTU	WCA-2	Outflow	96	2.07	1.33	1.10	1.50	2.77	0.50	7.20	0	0
Turbidity	NTU	WCA-3	Inflow	205	2.64	1.80	1.50	2.10	3.35	0.60	16.6	0	0
Turbidity	NTU	WCA-3	Interior	201	0.84	0.56	0.60	0.70	0.95	0.30	4.60	0	0
Turbidity	NTU	WCA-3	Outflow	164	1.56	1.62	0.90	1.10	1.68	0.50	17.40	0	0
Turbidity	NTU	Park	Inflow	160	1.45	1.15	0.90	1.10	1.60	0.50	8.70	0	0
Turbidity	NTU	Park	Interior	74	1.69	3.15	0.60	0.80	1.45	0.30	24.6	0	0
Un-ionized Ammonia	mg/L	Refuge	Inflow	78	0.0031	0.0037	0.0009	0.0017	0.0035	0.00009	0.021	1.3	1
Un-ionized Ammonia	mg/L	Refuge	Rim	36	0.0019	0.0026	0.0005	0.0011	0.0019	0.00007	0.012	2.6	1
Un-ionized Ammonia	mg/L	Refuge	Interior	234	0.00008	0.0001	0.00001	0.00003	0.00008	0.000002	0.0008	38.5	20
Un-ionized Ammonia	mg/L	Refuge	Outflow	49	0.0011	0.0015	0.0002	0.0007	0.0013	0.00003	0.0075	16.3	0
Un-ionized Ammonia	mg/L	WCA-2	Inflow	90	0.0046	0.0081	0.0008	0.0016	0.0037	0.00006	0.044	0	1
Un-ionized Ammonia	mg/L	WCA-2	Interior	238	0.0006	0.0008	0.0002	0.0004	0.0007	0.00003	0.0077	11.5	1
Un-ionized Ammonia	mg/L	WCA-2	Outflow	88	0.0013	0.0010	0.0005	0.0010	0.0017	0.00004	0.0044	2.2	5
Un-ionized Ammonia	mg/L	WCA-3	Inflow	188	0.0017	0.0019	0.0006	0.0011	0.0020	0.00001	0.017	6.9	7
Un-ionized Ammonia	mg/L	WCA-3	Interior	302	0.0006	0.0015	0.00007	0.0002	0.0004	0.00002	0.014	30.0	2
Un-ionized Ammonia	mg/L	WCA-3	Outflow	166	0.0008	0.0010	0.0002	0.0005	0.0010	0.00004	0.008	5.4	0
Un-ionized Ammonia	mg/L	Park	Inflow	171	0.0009	0.0009	0.0003	0.0006	0.0011	0.00004	0.006	5.8	0
Un-ionized Ammonia	mg/L	Park	Interior	74	0.0016	0.0057	0.0002	0.0005	0.00092	0.00007	0.046	29.7	0