

Refuge's Enhanced Water Quality Program Monthly Sampling

April 2010 – June 2010 Data Update

Posted August 30, 2010

by:

Matt Harwell

**A.R.M. Loxahatchee National
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A.R.M. Loxahatchee National Wildlife Refuge
Enhanced Water Quality Monitoring Network

Apr-10

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth ¹ meter	Total Depth ² meter	DCS ³ meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl (TKN) mg/l	Ortho-phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved (TDS) mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU
A101	4/13/2010	P	0.07	0.14	0.18	-	-	-	-	58	412	-	-	-	3.9	6.9	0.009	-	-	4.0	2.0	23.8	-
A102	4/13/2010	N	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A103	4/13/2010	N	-	-	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A104	4/14/2010	F	-	-	>1M	130	44.4	26	26	80	581	0.035	1.70	0.016	4.5	7.5	0.056	6	360	9.5	25.0	23.9	7.7
A105	4/14/2010	P	0.28	0.17	0.28	-	-	-	-	33	250	-	-	-	5.3	7.1	0.008	-	-	U	2.9	23.1	-
A106	4/14/2010	P	0.2	0.13	0.2	-	-	-	-	24	192	-	-	-	3.8	7.0	0.005	-	-	U	1.5	23.5	-
A107	4/14/2010	N	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	4/13/2010	P	0.09	0.18	0.24	-	-	-	-	19	103	-	-	-	6.4	6.9	U	-	-	4.0	0.5	24.9	-
A109	4/14/2010	F	0.36	0.28	0.36	28	9.43	18	18	20	131	U	0.97	U	4.8	6.8	0.004	1	100	U	0.8	22.6	0.8
A110	4/14/2010	P	0.28	0.17	0.28	-	-	-	-	15	94	-	-	-	6.5	7.2	0.007	-	-	U	0.6	23.1	-
A111	4/14/2010	F	0.37	0.24	0.37	15	5.44	13	13	11	76	U	0.67	U	4.5	7.3	0.003	1	60	U	0.6	22.0	0.8
A112	4/14/2010	F	0.43	0.26	0.43	24.9	7.54	14	14	13	100	U	0.69	U	2.6	6.7	U	2	74	3.0	0.7	22.7	0.9
A113	4/14/2010	F	0.4	0.24	0.4	27.9	4.73	14	14	11	65	U	0.88	U	3.4	6.9	U	2	60	2.0	0.6	22.7	0.7
A114	4/14/2010	F	0.14	0.27	0.41	12	4.59	14	15	11	72	U	0.92	U	4.9	6.9	U	2	58	U	0.6	22.3	1.0
A115	4/15/2010	F	0.5	-	>1M	94	31.9	23	24	56	416	0.023	1.50	0.012	4.4	7.2	0.037	4	270	4.5	16.0	23.4	2.4
A117	4/15/2010	F	0.13	0.26	0.31	43	13.5	17	17	22	170	U	0.88	0.002	1.5	6.7	0.005	2	120	U	1.6	21.4	0.5
A118	4/15/2010	F	0.17	0.35	0.42	32	10.1	16	16	16	123	U	0.85	U	2.0	6.8	0.002	3	99	U	0.8	21.2	0.4
A119	4/15/2010	F	0.15	0.3	0.4	25	8.42	19	19	17	115	U	1.10	0.0044	4.4	7.2	0.004	4	94	2.0	0.6	20.6	0.6
A120	4/15/2010	F	0.21	0.42	0.56	28	5.53	18	18	18	100	U	1.10	0.0044	6.1	7.2	0.003	2	92	U	U	21.6	0.6
A122	4/15/2010	F	0.12	0.25	0.33	53	17.6	18.1	18	23	186	U	0.89	U	1.3	7.1	0.006	4	130	U	1.7	21.0	0.6
A124	4/12/2010	F	0.11	0.23	0.41	16	9.61	19	19	20	122	U	0.98	U	3.0	6.8	0.009	1	94	U	0.6	23.0	0.5
A126	4/12/2010	F	0.14	0.28	0.4	30	10.7	16	16	20	146	U	1.10	U	6.6	6.7	0.003	0	100	U	0.7	23.1	0.7
A127	4/12/2010	P	0.1	0.19	0.35	-	-	-	-	18	125	-	-	-	7.2	6.9	U	-	-	4.0	U	24.3	-
A128	4/15/2010	F	0.11	0.22	0.38	9	4.93	18	19	15	86	U	1.10	0.0048	7.2	7.0	0.002	2	79	U	U	23.0	0.6
A129	4/12/2010	F	0.5	-	>1M	110	42.8	21	21	75	522	U	1.70	0.017	3.6	7.2	0.070	4	320	6.5	13.0	23.8	2.7
A130	4/12/2010	F	0.13	0.27	0.32	46	15.2	16	16	29	207	U	0.89	U	4.8	6.8	0.003	2	131	U	1.4	24.3	0.6
A131	4/12/2010	F	0.11	0.23	0.32	22	8.57	20	20	16	112	U	1.20	U	6.9	6.9	U	2	100	U	0.6	25.0	0.6
A132	4/12/2010	F	0.5	-	>1M	120	45	21	22	82	564	0.009	1.80	0.017	3.9	7.2	0.071	4	340	5.0	15.0	24.3	2.4
A133	4/12/2010	P	0.05	0.11	0.22	-	-	-	-	30	205	-	-	-	3.1	6.7	0.014	-	-	U	1.9	23.6	-
A134	4/12/2010	F	0.13	0.26	0.33	43	14.8	18	18	27	198	U	1.10	U	7.6	7.3	0.005	2	130	2.5	1.6	24.8	0.6
A135	4/13/2010	F	0.5	-	>1M	180	66.8	25	26	130	855	0.098	1.90	U	5.3	7.6	0.072	3	510	9.0	43.0	24.1	4.5
A136	4/13/2010	F	0.18	0.36	0.48	64	20.8	21	22	41	276	U	1.10	U	2.4	6.8	0.007	3	180	2.0	2.6	22.8	0.6
A137	4/13/2010	F	0.13	0.26	0.34	43	14.3	21	22	24	172	U	1.30	U	4.1	6.7	0.006	2	130	2.5	1.1	23.1	0.7
A138	4/13/2010	P	0.09	0.18	0.28	-	-	-	-	16	110	-	-	-	5.5	6.7	U	-	-	U	0.8	22.7	-
A139	4/13/2010	P	0.09	0.18	0.32	-	-	-	-	14	83	-	-	-	5.0	7.1	0.004	-	-	4.0	0.6	22.7	-
A140	4/13/2010	P	0.06	0.11	0.23	-	-	-	-	20	157	-	-	-	4.8	7.3	0.010	-	-	U	0.9	23.4	-
A141	4/15/2010	F	0.21	0.43	0.75	35	11.3	17	17	21	150	U	1.20	U	3.7	7.1	0.010	5	120	U	1.3	21.4	0.7
Total			37																				
Full			24																				
Partial			10																				
None			3																				

¹Field depth is one half of the ddepth (depth of the clear water column) and is only recorded if a sample is taken.

²Total depth is depth of the clear water column.

³DCS is the depth of the water column down to the consolidated substrate.

U indicates that the compound was analyzed for but not detected; see "LOXA_Parameter_Info" tab for table of MDLs.

"**" indicates sample improperly processed for analysis

Additional information on the Enhanced Water Quality Monitoring Network can be found at:

http://sofia.usgs.gov/lox_monitor_model/wq_network.html

Data from June 2004 to May 2006 available on DBHYDRO:

<http://www.sfwmd.gov/org/ema/dbhydro/>

Field notes are maintained by the Everglades Program Team at the A.R.M. Loxahatchee National Wildlife Refuge.

A.R.M. Loxahatchee National Wildlife Refuge
Enhanced Water Quality Monitoring Network

May-10

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth ¹ meter	Total Depth ² meter	DCS ³ meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl (TKN) mg/l	Ortho- phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved (TDS) mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	5/11/2010	N	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A102	5/11/2010	N	-	-	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A103	5/11/2010	N	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A104	5/12/2010	F	0.5	-	>1M	130	34.9	25	25	78	567	0.004	1.6	0.006	4.4	7.2	0.042	11	370	2.5	34.0	28.0	1.6	
A105	5/12/2010	N	-	-	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A106	5/12/2010	N	-	-	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A107	5/12/2010	N	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A108	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A109	5/12/2010	P	0.1	0.19	0.27	-	-	-	-	12	101	-	-	-	2.9	6.7	0.010	-	-	U	0.8	25.8	-	
A110	5/12/2010	P	0.05	0.11	0.21	-	-	-	-	15	104	-	-	-	7.4	6.7	0.010	-	-	4.0	0.5	25.9	-	
A111	5/12/2010	P	0.09	0.18	0.33	-	-	-	-	10	75	-	-	-	4.8	6.4	0.008	-	-	4.0	0.6	25.5	-	
A112	5/12/2010	P	0.08	0.17	0.33	-	-	-	-	9.7	84	-	-	-	1.7	6.4	0.006	-	-	U	0.7	25.1	-	
A113	5/12/2010	F	0.1	0.21	0.36	13	4.83	14	14	11	75	0.004	0.8	U	3.7	6.5	0.006	2.4	66	2.5	0.6	25.4	0.6	
A114	5/12/2010	F	0.1	0.21	0.34	13	4.72	15	15	12	85	U	0.9	0.003	3.4	6.6	0.007	2.4	71	3.0	0.5	24.7	0.4	
A115	5/13/2010	F	-	-	>1M	71	19.1	17	17	31	265	U	1.0	0.008	2.3	7.0	0.036	6	180	3.5	9.3	27.3	1.7	
A117	5/13/2010	P	-	0.17	0.26	-	-	-	-	19	169	-	-	-	1.5	6.6	0.010	-	-	4.0	1.3	25.5	-	
A118	5/13/2010	F	-	0.24	0.36	32	10.6	15	15	15	123	U	1.1	0.003	1.3	6.5	0.010	4.9	98	2.0	0.7	25.4	0.5	
A119	5/13/2010	F	-	0.22	0.36	27	7.89	18	18	16	114	U	1.1	0.003	3.7	6.7	0.008	4.4	100	2.0	0.6	25.9	0.8	
A120	5/13/2010	F	-	0.32	0.63	32	5.4	16	17	18	106	U	1.0	0.004	4.6	6.5	0.006	3.6	91	3.0	U	26.2	0.7	
A122	5/13/2010	F	-	0.23	0.3	130	15.4	18	18	18	178	U	0.9	U	1.5	6.7	0.015	4.8	140	2.0	1.1	25.1	0.6	
A124	5/10/2010	P	0.08	0.17	0.37	-	-	-	-	18	124	-	-	-	1.2	6.9	0.009	-	-	2.7	0.6	26.1	-	
A126	5/10/2010	F	0.11	0.23	0.32	35	12	20	21	17	140	U	1.4	U	2.6	6.5	0.012	3.8	120	2.5	0.7	26.3	0.9	
A127	5/10/2010	P	0.07	0.14	0.28	-	-	-	-	15	102	-	-	-	1.6	6.3	0.007	-	-	4.0	U	26.6	-	
A128	5/13/2010	P	-	0.14	0.26	-	-	-	-	15	92	-	-	-	5.8	6.3	0.005	-	-	5.0	U	27.1	-	
A129	5/10/2010	F	0.5	-	>1M	100	31.4	23	23	53	411	U	1.4	0.009	1.0	7.0	0.049	6.2	270	4.5	9.7	28.3	2.3	
A130	5/10/2010	F	0.1	0.21	0.3	25	16	19	19	21	190	U	0.9	0.003	2.5	6.7	0.011	3.2	130	2.0	1.1	27.6	1.0	
A131	5/10/2010	F	0.1	0.21	0.28	27	9.42	22	22	13	107	U	1.5	U	3.5	6.6	0.008	4.7	110	U	0.6	27.4	0.9	
A132	5/10/2010	F	0.5	-	>1M	120	35.7	24	24	62	466	0.007	1.4	0.008	1.9	7.2	0.051	7.1	290	5.5	13.0	28.8	2.3	
A133	5/10/2010	N	-	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A134	5/10/2010	P	0.1	0.19	0.26	-	-	-	-	17	154	-	-	-	4.4	7.0	0.009	-	-	3.3	1.0	27.6	-	
A135	5/11/2010	F	-	-	>1M	120	37.2	26	26	66	504	0.007	1.5	0.012	2.1	7.3	0.046	9.3	330	6.0	18.0	28.1	2.8	
A136	5/11/2010	P	0.08	0.15	0.48	-	-	-	-	20	200	-	-	-	2.7	6.7	0.022	-	-	4.7	1.0	27.8	-	
A137	5/11/2010	P	0.08	0.15	0.25	-	-	-	-	17	153	-	-	-	5.1	6.7	0.012	-	-	2.0	0.9	26.4	-	
A138	5/11/2010	P	0.07	0.14	0.25	-	-	-	-	16	142	-	-	-	4.7	6.7	0.007	-	-	3.3	0.6	26.1	-	
A139	5/11/2010	P	0.08	0.17	0.22	-	-	-	-	13	91	-	-	-	5.0	7.1	0.011	-	-	6.7	0.5	25.8	-	
A140	5/11/2010	P	0.05	0.1	0.2	-	-	-	-	18	145	-	-	-	2.6	6.6	0.009	-	-	2.7	0.7	26.0	-	
A141	5/13/2010	F	-	0.26	0.97	35	9.47	17	17	18	138	0.004	1.2	0.003	1.5	6.8	0.015	4.6	100	2.0	0.8	25.6	0.8	
Total																								
Full																								
Partial																								
None																								

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A.R.M. Loxahatchee National Wildlife Refuge
Enhanced Water Quality Monitoring Network

Jun-10

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth ¹ meter	Total Depth ² meter	DCS ³ meter	Alkalinity mg/l	Calcium Dissolved mg/l	Carbon, Dissolved Organic mg/l	Carbon, Total Organic mg/l	Chloride mg/l	Conductivity (Field) µMHSO/cm	Nitrate + Nitrite as Nitrogen mg/l	Nitrogen, Total Kjeldahl (TKN) mg/l	Ortho-phosphate as Phosphorus mg/l	Oxygen, Dissolved (Field) mg/l	pH (Field) pH units	Phosphorus, Total mg/l	Silica mg/l	Solids, Total Dissolved (TDS) mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU
A101	6/8/2010	P	0.07	0.14	0.21	-	-	-	-	30	280	-	-	-	2.8	6.9	0.014	-	-	U	2	29.1	-
A102	6/8/2010	N	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A103	6/8/2010	N	-	-	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A104	6/9/2010	F	0.5	-	>1M	228	78	37	36	131	1051	0.016	2.4	0.009	3.2	7.6	0.026	27	697	7.0	101	29.6	2.0
A105	6/9/2010	P	0.09	0.18	0.24	-	-	-	-	88	571	-	-	-	3.0	6.9	0.020	-	-	U	23	29.0	-
A106	6/9/2010	P	0.05	0.11	0.18	-	-	-	-	22	196	-	-	-	2.8	6.8	0.011	-	-	U	2	29.5	-
A107	6/9/2010	N	-	-	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	6/8/2010	P	0.07	0.15	0.2	-	-	-	-	19	117	-	-	-	5.2	6.6	0.006	-	-	U	U	32.8	-
A109	6/10/2010	F	0.14	0.28	0.34	34	11	19	18	16	132	U	1.0	U	3.9	6.4	0.011	3	98	U	1	28.6	1.2
A110	6/9/2010	P	0.08	0.16	0.24	-	-	-	-	16	116	-	-	-	5.6	6.7	0.010	-	-	U	1	30.5	-
A111	6/9/2010	P	0.09	0.18	0.32	-	-	-	-	11	85	-	-	-	3.4	6.3	0.005	-	-	U	1	28.3	-
A112	6/9/2010	F	0.1	0.21	0.39	30	11	18	16	12	116	0.004	1.0	0.003	2.7	6.5	0.011	5	109	U	1	29.4	0.8
A113	6/9/2010	F	0.11	0.22	0.35	16.5	6	16	15	12	91	0.004	0.9	0.003	3.8	6.5	U	4	87	U	1	28.2	0.6
A114	6/9/2010	P	0.09	0.18	0.33	-	-	-	-	14	90	-	-	-	2.3	6.3	0.006	-	-	U	U	28.2	-
A115	6/10/2010	F	0.5	-	>1M	177	69	33	33	129	965	0.039	2.1	0.010	4.3	7.7	0.029	23	621	U	90	30.6	1.1
A117	6/10/2010	P	0.08	0.17	0.22	-	-	-	-	15	146	-	-	-	1.1	6.5	0.014	-	-	U	2	27.2	-
A118	6/10/2010	P	0.09	0.19	0.32	-	-	-	-	12	110	-	-	-	1.6	6.3	0.010	-	-	U	1	28.4	-
A119	6/10/2010	F	0.12	0.25	0.37	26	9	17	16	13	105	0.005	1.2	0.003	2.4	6.5	0.008	5	84	U	1	28.8	1.8
A120	6/10/2010	F	0.14	0.29	0.38	14	5	15	14	14	85	0.008	0.9	0.003	3.4	6.3	0.007	3	64	U	U	29.4	0.5
A122	6/10/2010	P	0.08	0.16	0.27	-	-	-	-	16	175	-	-	-	1.4	6.5	0.019	-	-	U	1	27.5	-
A124	6/7/2010	P	0.09	0.18	0.32	-	-	-	-	17	125	-	-	-	1.8	7.0	0.018	-	-	U	1	28.9	-
A126	6/7/2010	F	0.11	0.22	0.35	72	29	22	24	71	460	0.008	1.3	0.003	3.4	6.9	0.014	6	268	U	9	32.2	0.6
A127	6/7/2010	N	-	-	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	6/10/2010	P	0.07	0.15	0.27	-	-	-	-	15	95	-	-	-	5.4	6.7	U	-	-	U	U	31.1	-
A129	6/7/2010	F	0.5	-	>1M	131	40	26	27	99	652	0.037	1.7	0.010	2.4	7.2	0.059	12	403	7.0	36	31.3	2.3
A130	6/7/2010	F	0.1	0.21	0.33	47	16	18	19	18	182	0.004	0.9	0.002	3.3	7.0	0.013	4	117	U	1	32.4	0.8
A131	6/7/2010	F	0.1	0.2	0.35	26	9	18	18	10	95	U	1.1	0.003	7.6	7.2	0.008	7	87	U	1	35.5	0.7
A132	6/7/2010	F	0.5	-	>1M	132	41	27	28	112	731	0.03	1.7	0.008	3.2	7.4	0.053	14	449	5.5	44	31.2	2.0
A133	6/7/2010	P	0.06	0.13	0.21	-	-	-	-	16	135	-	-	-	4.3	7.1	0.030	-	-	U	1	32.3	-
A134	6/7/2010	P	0.09	0.18	0.35	-	-	-	-	14	127	-	-	-	8.4	7.3	0.011	-	-	U	1	33.7	-
A135	6/8/2010	F	0.5	-	>1M	134	45	28	27	115	775	0.006	1.7	0.008	3.0	7.5	0.051	15	480	U	47	30.8	2.1
A136	6/8/2010	P	0.08	0.16	0.23	-	-	-	-	14	143	-	-	-	2.1	6.6	0.018	-	-	U	1	29.3	-
A137	6/8/2010	P	0.09	0.18	0.29	-	-	-	-	12	117	-	-	-	3.5	6.5	0.009	-	-	U	1	30.3	-
A138	6/8/2010	P	0.08	0.17	0.28	-	-	-	-	12	101	-	-	-	5.1	6.6	0.010	-	-	U	1	30.1	-
A139	6/8/2010	P	0.08	0.17	0.27	-	-	-	-	11	85	-	-	-	3.5	6.5	0.006	-	-	U	U	29.8	-
A140	6/8/2010	P	0.06	0.13	0.22	-	-	-	-	15	128	-	-	-	4.5	6.8	0.011	-	-	U	1	30.7	-
A141	6/10/2010	F	0.19	0.39	0.55	36	12	17	17	20	154	0.003	1.0	0.003	1.2	6.5	0.010	6	113	U	2	28.4	0.6
Total			37																				
Full			14																				
Partial			19																				
None			4																				

¹Field depth is one half of the ddepth (depth of the clear water column) and is only recorded if a sample is taken.

²Total depth is depth of the clear water column.

³DCS is the depth of the water column down to the consolidated substrate.

U indicates that the compound was analyzed for but not detected; see "LOXA_Parameter_Info" tab for table of MDLs.

"*" indicates sample improperly processed for analysis

Additional information on the Enhanced Water Quality Monitoring Network can be found at:

http://sofia.usgs.gov/lox_monitor_model/wq_network.html

Data from June 2004 to May 2006 available on DBHYDRO:

<http://www.sfwmd.gov/org/ema/dbhydro/>

Field notes are maintained by the Everglades Program Team at the A.R.M. Loxahatchee National Wildlife Refuge.

**A.R.M. Loxahatchee National Wildlife Refuge
Enhanced Water Quality Monitoring Network**

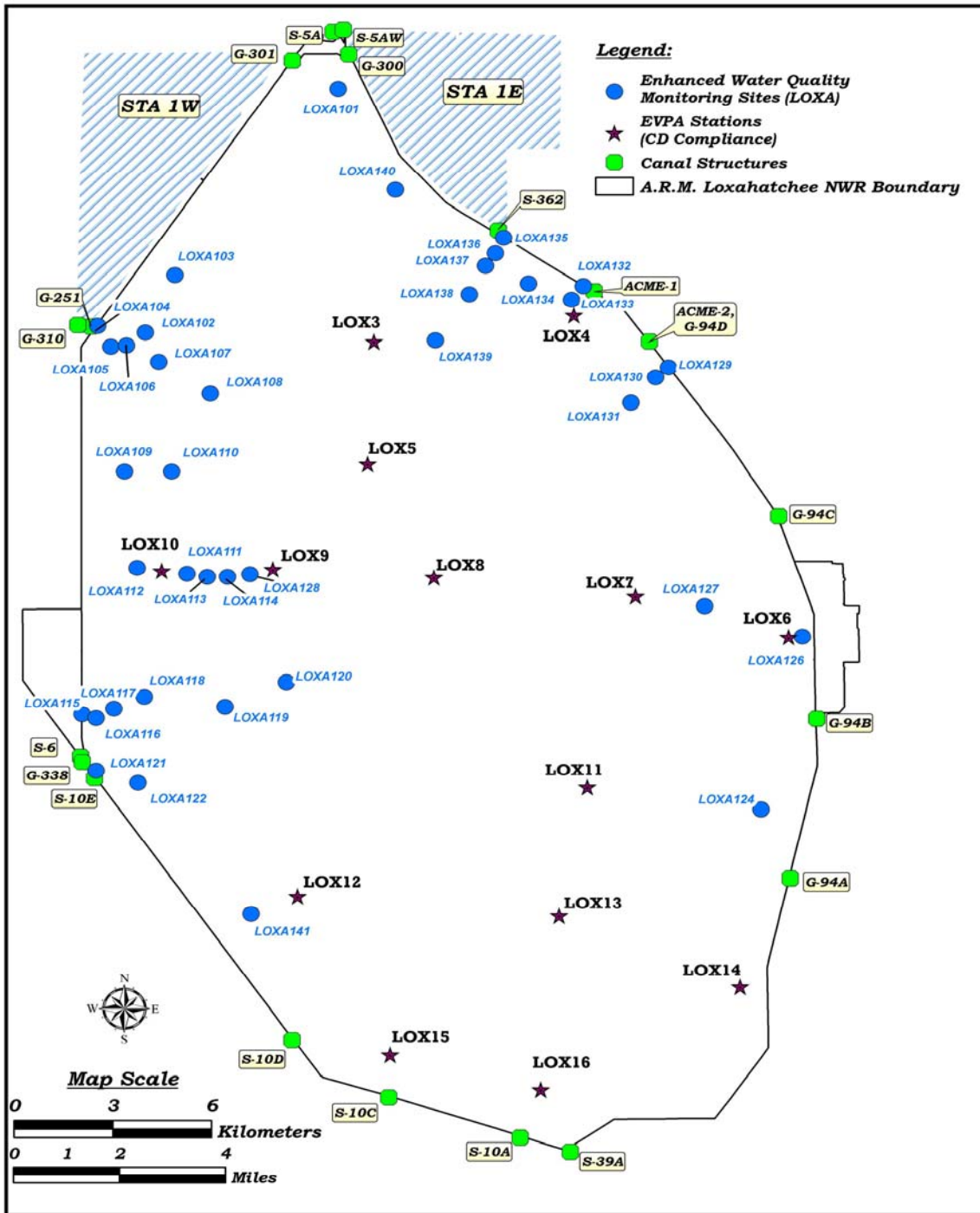
Parameter Information:

Parameter	Units	Analysis Method	MDL
Alkalinity as CaCO ₃ , Total	mg/L	310.1	1.9
Calcium Dissolved	mg/L	200.7	0.014
Carbon, Dissolved Organic	mg/L	415.1	0.5
Carbon, Total Organic	mg/L	415.1	0.5
Chloride	mg/L	300.0	0.052
Conductivity (field)	uMHOS/cm	120.1 (field)	-
Nitrate + Nitrite as Nitrogen	mg/L	300.0	0.004
Nitrogen, Total Kjeldahl (TKN)	mg/L	351.2	0.1
Ortho-phosphate as Phosphorus	mg/L	365.1	0.003
Oxygen, Dissolved (Field)	mg/L	360.1	1
pH (Field)	pH units	150.1	-
Phosphorus, Total	mg/L	365.3	0.003
Silica	mg/L	370.1	0.068
Solids, Total Dissolved (TDS)	mg/L	160.1	4.7
Solids, Total Suspended (TSS)	mg/L	160.2	1.6
Sulfate	mg/L	300.0	0.16
Temperature (Field)	DEG C	170.1	-
Turbidity	NTU	180.1	0.17

Note: Nitrate and Nitrite not analyzed after June 2006

**A.R.M. Loxahatchee National Wildlife Refuge
Enhanced Water Quality Monitoring Network**

Map of sites:



Coordinates of sites:

Name	Latitude	Longitude	X_DMS*	Y_DMS*	X_DM**	Y_DM**
LOXA101	26.667392489	-80.366364752	80° 21' 58.91" W	26° 40' 2.61" N	80° 21.9818333' W	26° 40.0435' N
LOXA102	26.595988767	-80.425537688	80° 25' 31.94" W	26° 35' 45.56" N	80° 25.532333' W	26° 35.7593333333333' N
LOXA103	26.612851423	-80.416436308	80° 24' 59.17" W	26° 36' 46.27" N	80° 24.98616667' W	26° 36.7711666666667' N
LOXA104	26.597981879	-80.440045081	80° 26' 24.16" W	26° 35' 52.73" N	80° 26.4026667' W	26° 35.8788333333333' N
LOXA105	26.591899226	-80.436094071	80° 26' 9.94" W	26° 35' 30.84" N	80° 26.1656667' W	26° 35.514' N
LOXA106	26.592206216	-80.431280960	80° 25' 52.61" W	26° 35' 31.94" N	80° 25.876833' W	26° 35.5323333333333' N
LOXA107	26.587390459	-80.421444676	80° 25' 17.20" W	26° 35' 14.61" N	80° 25.286667' W	26° 35.2435' N
LOXA108	26.577960101	-80.405853442	80° 24' 21.07" W	26° 34' 40.66" N	80° 24.35116667' W	26° 34.6776666666667' N
LOXA109	26.555288645	-80.432051570	80° 24' 55.39" W	26° 33' 19.04" N	80° 25.92316667' W	26° 33.3173333333333' N
LOXA110	26.555239734	-80.417691537	80° 25' 3.69" W	26° 33' 18.86" N	80° 25.0615' W	26° 33.3143333333333' N
LOXA111	26.525335828	-80.413147047	80° 24' 47.33" W	26° 31' 31.21" N	80° 24.7888333' W	26° 31.5201666666667' N
LOXA112	26.527124725	-80.428373322	80° 25' 42.14" W	26° 31' 37.65" N	80° 25.702333' W	26° 31.6275' N
LOXA113	26.524427841	-80.406998750	80° 24' 55.20" W	26° 31' 27.94" N	80° 24.42' W	26° 31.4656666666667' N
LOXA114	26.524392580	-80.400839654	80° 24' 3.02" W	26° 31' 27.81" N	80° 24.050333' W	26° 31.4635' N
LOXA115	26.484225781	-80.445336745	80° 26' 43.21" W	26° 29' 3.21" N	80° 26.7201667' W	26° 29.0535' N
LOXA116	26.483058602	-80.441097999	80° 26' 27.95" W	26° 28' 59.01" N	80° 26.4658333' W	26° 28.9835' N
LOXA117	26.485804269	-80.435685796	80° 26' 8.47" W	26° 29' 8.90" N	80° 26.14116667' W	26° 29.1483333333333' N
LOXA118	26.489289243	-80.426390912	80° 25' 35.01" W	26° 29' 21.44" N	80° 25.5835' W	26° 29.3573333333333' N
LOXA119	26.486214619	-80.401808449	80° 24' 6.51" W	26° 29' 10.37" N	80° 24.1085' W	26° 29.1728333333333' N
LOXA120	26.493410539	-80.383079866	80° 22' 59.09" W	26° 29' 36.28" N	80° 22.9848333' W	26° 29.6046666666667' N
LOXA121	26.467676727	-80.441132313	80° 26' 28.08" W	26° 28' 3.64" N	80° 26.468' W	26° 28.0606666666667' N
LOXA122	26.464042966	-80.428433669	80° 25' 42.36" W	26° 27' 50.55" N	80° 25.706' W	26° 27.8425' N
LOXA123	26.426753074	-80.400363722	80° 24' 1.31" W	26° 25' 36.31" N	80° 24.0218333' W	26° 25.6051666666667' N
LOXA124	26.455353967	-80.238754550	80° 14' 19.52" W	26° 27' 19.27" N	80° 14.325333' W	26° 27.3211666666667' N
LOXA126	26.506011481	-80.225851709	80° 13' 33.07" W	26° 30' 21.64" N	80° 13.55116667' W	26° 30.3606666666667' N
LOXA127	26.515134740	-80.255559757	80° 15' 20.02" W	26° 30' 54.49" N	80° 15.3336667' W	26° 30.9081666666667' N
LOXA128	26.525162864	-80.394012101	80° 23' 38.44" W	26° 31' 30.59" N	80° 23.6406667' W	26° 31.5098333333333' N
LOXA129	26.585007262	-80.266082555	80° 15' 57.90" W	26° 35' 6.03" N	80° 15.965' W	26° 35.1005' N
LOXA130	26.582118809	-80.270055306	80° 16' 12.20" W	26° 34' 55.63" N	80° 16.20333' W	26° 34.9271666666667' N
LOXA131	26.574747906	-80.277646525	80° 16' 39.53" W	26° 34' 29.09" N	80° 16.6588333' W	26° 34.4848333333333' N
LOXA132	26.609005614	-80.291899387	80° 17' 30.84" W	26° 36' 32.42" N	80° 17.514' W	26° 36.5403333333333' N
LOXA133	26.605089596	-80.295574907	80° 17' 44.07" W	26° 36' 18.32" N	80° 17.7345' W	26° 36.3053333333333' N
LOXA134	26.609856637	-80.308603250	80° 18' 30.97" W	26° 36' 35.48" N	80° 18.51616667' W	26° 36.5913333333333' N
LOXA135	26.623355381	-80.316122757	80° 18' 58.04" W	26° 37' 24.08" N	80° 18.967333' W	26° 37.4013333333333' N
LOXA136	26.618793017	-80.318666883	80° 19' 7.20" W	26° 37' 7.65" N	80° 19.12' W	26° 37.1275' N
LOXA137	26.615103372	-80.321703271	80° 19' 18.13" W	26° 36' 54.37" N	80° 19.30216667' W	26° 36.9061666666667' N
LOXA138	26.606816926	-80.326665374	80° 19' 36.00" W	26° 36' 24.54" N	80° 19.6' W	26° 36.409' N
LOXA139	26.593325251	-80.337153885	80° 20' 13.75" W	26° 35' 35.97" N	80° 20.22916667' W	26° 35.5995' N
LOXA140	26.637603226	-80.349094316	80° 20' 56.74" W	26° 38' 15.37" N	80° 20.9456667' W	26° 38.2561666666667' N
LOXA141	26.42708333	80.3942	80° 23' 39.12" W	26° 38' 37.5" N	80° 23.652' W	26° 38.625' N

* DMS = Degrees Minutes Seconds

** DM = Degrees Minutes Decimal Minutes

Additional information on the coordinates for the Enhanced Water Quality Monitoring Network can be found at:

http://sofia.usgs.gov/lox_monitor_model/workplans/EnhancedWQsamplingStations_.pdf