

Refuge's Enhanced Water Quality Program Monthly Sampling

January 2009 – March 2009 Data Update

Posted Jun. 2*, 2009

by:

Matt Harwell

**A.R.M. Loxahatchee National
Wildlife Refuge**

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

Jan-09

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth	Total Depth	DCS	Alkalinity	Calcium Dissolved	Carbon, Dissolved Organic	Carbon, Total Organic	Chloride	Conductivity (Field)	Nitrate + Nitrite as Nitrogen	Nitrogen, Total Kjeldahl (TKN)	Ortho-phosphate as Phosphorus	Oxygen, Dissolved (Field)	pH (Field)	Phosphorus, Total	Silica	Solids, Total Dissolved (TDS)	Solids, Total Suspended (TSS)	Sulfate	Temperature (Field)	Turbidity
A101	1/27/2009	P	0.08	0.17	0.22	-	-	-	-	130	814.8	-	-	-	3.45	7.27	0.009	-	-	U	11.0	17.6	-
A102	1/27/2009	P	0.06	0.12	0.19	-	-	-	-	33	228.8	-	-	-	8.8	6.89	0.010	-	-	5.0	1.3	17.1	-
A103	1/27/2009	P	0.07	0.14	0.21	-	-	-	-	24	162.1	-	-	-	2.63	6.6	0.011	-	-	U	1.4	14.8	-
A104	1/28/2009	F	-	-	>1M	150	50	31	31	100	663.5	U	1.6	0.017	7.97	7.8	0.022	9.0	400	1.5	24.0	19.1	1.50
A105	1/28/2009	F	0.12	0.24	0.27	110	31	24	24	60	417.4	U	1.1	0.062	6.83	7.89	0.009	3.7	240	U	7.2	18.6	0.36
A106	-	N	-	-	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A107	-	N	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	-	N	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A109	1/28/2009	F	0.16	0.36	0.36	43	6.7	24	25	26	178.8	U	1.3	0.054	3.8	6.67	0.009	3.3	120	2.0	0.8	19.5	0.71
A110	1/28/2009	P	0.09	0.18	0.25	-	-	-	-	23	135.8	-	-	-	3.39	6.27	U	-	-	2.0	U	19.4	-
A111	1/28/2009	P	0.09	0.19	0.31	-	-	-	-	22	142.4	-	-	-	7.14	6.63	0.006	-	-	U	0.3	19.5	-
A112	1/28/2009	F	0.13	0.26	0.44	40	12	24	23	23	159.8	U	1.2	0.048	3.23	6.63	0.008	5.3	120	2.5	0.6	17.8	0.51
A113	1/28/2009	P	0.09	0.19	0.31	-	-	-	-	22	139.6	-	-	-	4.6	6.44	U	-	-	3.0	U	18.4	-
A114	1/28/2009	F	0.15	0.3	0.35	16	6.7	21	23	24	126.7	U	1.1	0.050	3.38	6.53	0.005	1.7	94	2.0	U	18.1	0.56
A115	1/29/2009	F	-	-	>1M	140	49	30	30	85	629.4	0.022	1.5	0.019	7.35	7.52	0.020	12.0	410	2.5	36.0	18.3	1.00
A117	1/29/2009	P	0.09	0.18	0.37	-	-	-	-	22	158.3	-	-	-	0.96	6.6	0.008	-	-	U	2.6	15.8	-
A118	1/29/2009	F	0.14	0.27	0.47	25	8.5	19	20	18	113.6	U	0.68	0.035	4.88	6.33	0.009	9.0	99	U	1.2	17.8	0.60
A119	1/29/2009	F	0.15	0.29	0.42	55	7.6	20	20	19	116.4	U	0.87	0.046	1.43	6.51	0.009	15.0	100	U	U	18.0	0.39
A120	1/29/2009	F	0.13	0.26	0.47	16	5.8	18	20	21	114.4	U	1	0.033	3.58	6.44	0.030	3.0	88	U	U	20.2	0.42
A122	1/29/2009	P	0.08	0.16	0.37	-	-	-	-	28	237.7	-	-	-	1.98	7.18	0.062	-	-	U	2.8	17.4	-
A124	1/26/2009	F	0.15	0.3	0.52	21	9	19	20	21	150.2	U	0.79	U	2	6.8	0.004	2.8	93	1.5	0.3	18.5	0.45
A126	1/26/2009	F	0.11	0.21	0.42	35	11	17	16	19	142.2	U	0.91	U	5.45	6.72	0.012	1.0	97	U	0.5	17.4	0.57
A127	-	N	-	-	0.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	1/29/2009	P	0.08	0.16	0.33	-	-	-	-	25	118.3	-	-	-	1.62	6.31	U	-	-	U	U	21.2	-
A129	1/26/2009	F	0.5	-	>1M	140	47	28	28	110	641.9	U	1.4	U	5.66	7.18	0.011	8.5	390	2.5	15.0	17.0	2.00
A130	1/26/2009	P	0.1	0.19	0.27	-	-	-	-	49	307.8	-	-	-	2.61	6.72	0.007	-	-	U	2.3	15.8	-
A131	1/26/2009	P	0.09	0.18	0.28	-	-	-	-	36	210.8	-	-	-	6	6.73	0.007	-	-	U	0.4	16.8	-
A132	1/26/2009	F	0.5	-	>1M	150	49	30	32	110	683	U	1.4	U	6.26	7.33	0.012	9.0	400	2.5	15.0	17.0	1.60
A133	-	N	-	-	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A134	1/26/2009	P	0.09	0.18	0.32	-	-	-	-	74	464.6	-	-	-	4.71	7.07	0.011	-	-	U	5.3	17.8	-
A135	1/27/2009	F	0.5	-	>1M	150	51	31	32	110	682.1	U	1.6	-	6.65	7.44	0.014	9.9	400	3.5	14.0	17.1	1.50
A136	1/27/2009	F	0.1	0.21	0.36	140	42	29	30	89	560.3	U	1.5	0.004	1.74	7.12	0.009	8.3	350	U	9.0	16.3	0.65
A137	1/27/2009	P	0.07	0.14	0.29	-	-	-	-	63	392.6	-	-	-	2.07	6.99	0.016	-	-	U	3.7	16.5	-
A138	1/27/2009	P	0.06	0.12	0.2	-	-	-	-	44	281.7	-	-	-	4.67	7.41	0.017	-	-	U	0.5	16.3	-
A139	-	N	-	-	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A140	1/27/2009	P	0.05	0.1	0.23	-	-	-	-	35	219.6	-	-	0.003	3.69	6.74	0.009	-	-	2.0	1.2	17.2	-
A141	1/29/2009	F	0.17	0.35	0.64	49	15	18	19	21	170.9	U	0.85	0.022	4.2	7.57	0.008	5.8	110	U	0.9	19.2	0.55
Total			40																				
Full			16																				
Partial			15																				
None			9																				

(1) Field depth is one half of the tdepth (depth of the clear water column) and is only recorded if a sample is taken.
(2) Total depth is depth of the clear water column.
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
Q indicates sample held beyond accepted holding time

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

Feb-09

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth	Total Depth	DCS	Alkalinity	Calcium Dissolved	Carbon, Dissolved Organic	Carbon, Total Organic	Chloride	Conductivity (Field)	Nitrate + Nitrite as Nitrogen	Nitrogen, Total Kjeldahl (TKN)	Ortho-phosphate as Phosphorus	Oxygen, Dissolved (Field)	pH (Field)	Phosphorus, Total	Silica	Solids, Total Dissolved (TDS)	Solids, Total Suspended (TSS)	Sulfate	Temperature (Field)	Turbidity
		Units	meter	meter	meter	mg/l	mg/l	mg/l	mg/l	mg/l	µMHSO/cm	mg/l	mg/l	mg/l	mg/l	ph units	mg/l	mg/l	mg/l	mg/l	mg/l	DEG C	NTU
A101	2/16/2009	P	0.05	0.10	0.15	-	-	-	-	150	918	-	-	-	3.4	7.4	U	-	-	U	7.2	20.6	-
A102	-	N	-	-	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A103	-	N	-	-	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A104	2/17/2009	F	-	-	>1M	150	48	29	28	98	661	0.018	1.6	U	6.7	7.8	0.010	10	430	3.3	27.0	19.6	1.7
A105	2/17/2009	P	0.05	0.11	0.19	-	-	-	-	57	414	-	-	-	3.7	7.0	U	-	-	U	3.8	15.9	-
A106	-	N	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A107	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	-	N	-	-	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A109	2/17/2009	F	0.12	0.25	0.32	42	12	23	25	28	178	0.016	1.2	U	3.3	7.3	U	1	130	3.0	0.6	17.7	0.7
A110	-	N	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A111	-	N	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A112	2/17/2009	P	0.08	0.18	0.29	-	-	-	-	27	183	-	-	-	2.9	6.7	U	-	-	2.0	0.4	18.3	-
A113	-	N	-	-	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A114	2/17/2009	P	0.06	0.12	0.26	-	-	-	-	28	154	-	-	-	4.5	6.5	U	-	-	U	U	19.5	-
A115	2/18/2009	F	0.50	-	>1M	130	43	26	27	71	555	U	1.3	U	7.1	7.6	U6	10	340	U	27.0	19.7	1.4
A117	2/18/2009	P	0.08	0.16	0.33	-	-	-	-	21	163	-	-	-	1.8	6.4	U	-	-	U	1.5	16.1	-
A118	2/18/2009	F	0.10	0.21	0.36	25	9	19	18	19	126	0.027	0.8	U	5.2	6.4	U	7	100	U	0.9	18.2	0.5
A119	2/18/2009	P	0.07	0.15	0.40	-	-	-	-	21	134	-	-	-	5.4	6.7	U	-	-	U	U	18.3	-
A120	2/18/2009	F	0.16	0.33	0.42	24	8	22	23	27	146	0.017	1.2	U	7.3	6.6	U	5	120	U	U	19.7	1.4
A122	2/18/2009	P	0.08	0.16	0.29	-	-	-	-	26	228	-	-	-	2.5	6.7	U	-	-	U	1.9	17.4	-
A124	2/18/2009	P	0.10	0.19	0.38	-	-	-	-	24	138	-	-	-	1.6	6.1	U	-	-	2.0	U	17.1	-
A126	2/18/2009	P	0.07	0.15	0.32	-	-	-	-	22	164	-	-	-	2.3	6.5	U	-	-	3.0	0.3	17.6	-
A127	-	N	-	-	0.31	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	-	N	-	-	0.22	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A129	2/16/2009	F	-	-	>1M	160	52	23	24	130	767	0.017	1.5	U	6.9	7.6	0.021	5	450	6.0	22.0	22.0	2.4
A130	2/16/2009	P	0.10	0.19	0.29	-	-	-	-	51	355	-	-	-	2.1	6.7	U	-	-	U	1.1	21.7	-
A131	2/16/2009	P	0.08	0.17	0.28	-	-	-	-	39	232	-	-	-	3.5	6.7	U	-	-	3.0	0.2	21.8	-
A132	2/16/2009	F	-	-	>1M	160	50	26	26	120	708	0.031	1.5	U	6.7	7.6	0.024	6	440	5.0	16.0	21.7	3.3
A133	-	N	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A134	2/16/2009	P	0.06	0.13	0.34	-	-	-	-	73	488	-	-	-	2.3	7.0	U	-	-	U	2.8	20.8	-
A135	2/16/2009	F	-	-	>1M	150	51	25	26	110	679	-	1.7	U	6.6	7.7	0.021	7	420	4.0	14.0	21.4	3.0
A136	2/16/2009	P	0.06	0.14	0.39	-	-	-	-	90	562	0.052	-	-	1.6	7.1	U	-	-	U	3.1	20.7	-
A137	2/16/2009	P	0.06	0.11	0.24	-	-	-	-	68	429	-	-	-	3.0	6.8	U	-	-	U	1.9	21.1	-
A138	-	N	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A139	-	N	-	-	--	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A140	-	N	-	-	0.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A141	2/18/2009	F	0.18	0.37	0.51	50	15	18	18	21	173	0.028	0.9	U	3.1	6.6	U	6	140	U	0.6	18.0	0.6
Total			40																				
Full			9																				
Partial			14																				
None			17																				

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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

Mar-09

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R)	Depth	Total Depth	DCS	Alkalinity	Calcium Dissolved	Carbon, Dissolved Organic	Carbon, Total Organic	Chloride	Conductivity (Field)	Nitrate + Nitrite as Nitrogen	Nitrogen, Total Kjeldahl (TKN)	Ortho-phosphate as Phosphorus	Oxygen, Dissolved (Field)	pH (Field)	Phosphorus, Total	Silica	Solids, Total Dissolved (TDS)	Solids, Total Suspended (TSS)	Sulfate	Temperature (Field)	Turbidity
		Units	meter	meter	meter	mg/l	mg/l	mg/l	mg/l	mg/l	µMHSO/cm	mg/l	mg/l	mg/l	mg/l	ph units	mg/l	mg/l	mg/l	mg/l	mg/l	DEG C	NTU
A101	-	N	-	-	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A102	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A103	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A104	3/17/2009	F	-	-	>1m	130	41	24	23	59	488	0.016	1.3	0.038	6.3	7.9	0.025	8	300	2	18.0	24.2	3.8
A105	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A106	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A107	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A109	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A110	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A111	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A112	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A113	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A114	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A115	3/19/2009	F	-	-	>1m	120	39	22	21	53	435	0.036	1.3	0.017	6.2	7.7	0.015	17	270	4	16.0	22.4	4.5
A116	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A117	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A118	3/19/2009	P	0.06	0.13	0.26	-	-	-	-	29	173	-	-	-	3.7	6.5	U	-	-	7	1.0	19.4	-
A119	3/19/2009	F	0.11	0.22	0.29	33	11	26	25	31	171	0.025	1.7	0.003	5.8	6.8	0.004	12	140	3	0.4	19.4	1.5
A120	3/19/2009	F	0.12	0.23	0.32	30	10	25	24	36	180	0.023	1.5	U	5.2	7.0	0.003	6	140	3	U	20.4	1.3
A121	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A122	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A123	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A124	3/19/2009	P	0.06	0.12	0.23	-	-	-	-	28	160	-	-	-	1.6	6.3	0.013	-	-	7	0.4	19.3	-
A126	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A127	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A129	3/16/2009	F	0.50	-	>1m	160	51	30	29	100	677	0.050	1.9	0.005	5.8	7.7	0.040	2	420	12	18.0	23.6	3.3
A130	-	N	-	-	0.19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A131	-	N	-	-	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A132	3/16/2009	F	0.50	-	>1m	150	49	29	29	94	644	0.083	1.6	0.006	5.9	7.7	0.037	4	400	12	21.0	23.6	1.0
A133	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A134	-	N	-	-	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A135	3/16/2009	F	0.50	-	>1m	150	47	27	27	87	618	0.120	1.7	0.011	5.3	7.8	0.042	6	410	11	22.0	23.7	3.5
A136	-	N	-	-	0.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A137	-	N	-	-	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A138	-	N	-	-	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A139	-	N	-	-	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A140	-	N	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A141	3/19/2009	P	0.09	0.19	0.36	-	-	-	-	23	161	-	-	-	2.4	6.6	U	-	-	2	0.7	20.4	-
Total			40																				
Full			7																				
Partial			3																				
None			30																				

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

(2) Total depth is depth of the clear water column.

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

Q indicates sample held beyond accepted holding time

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.stwmd.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**

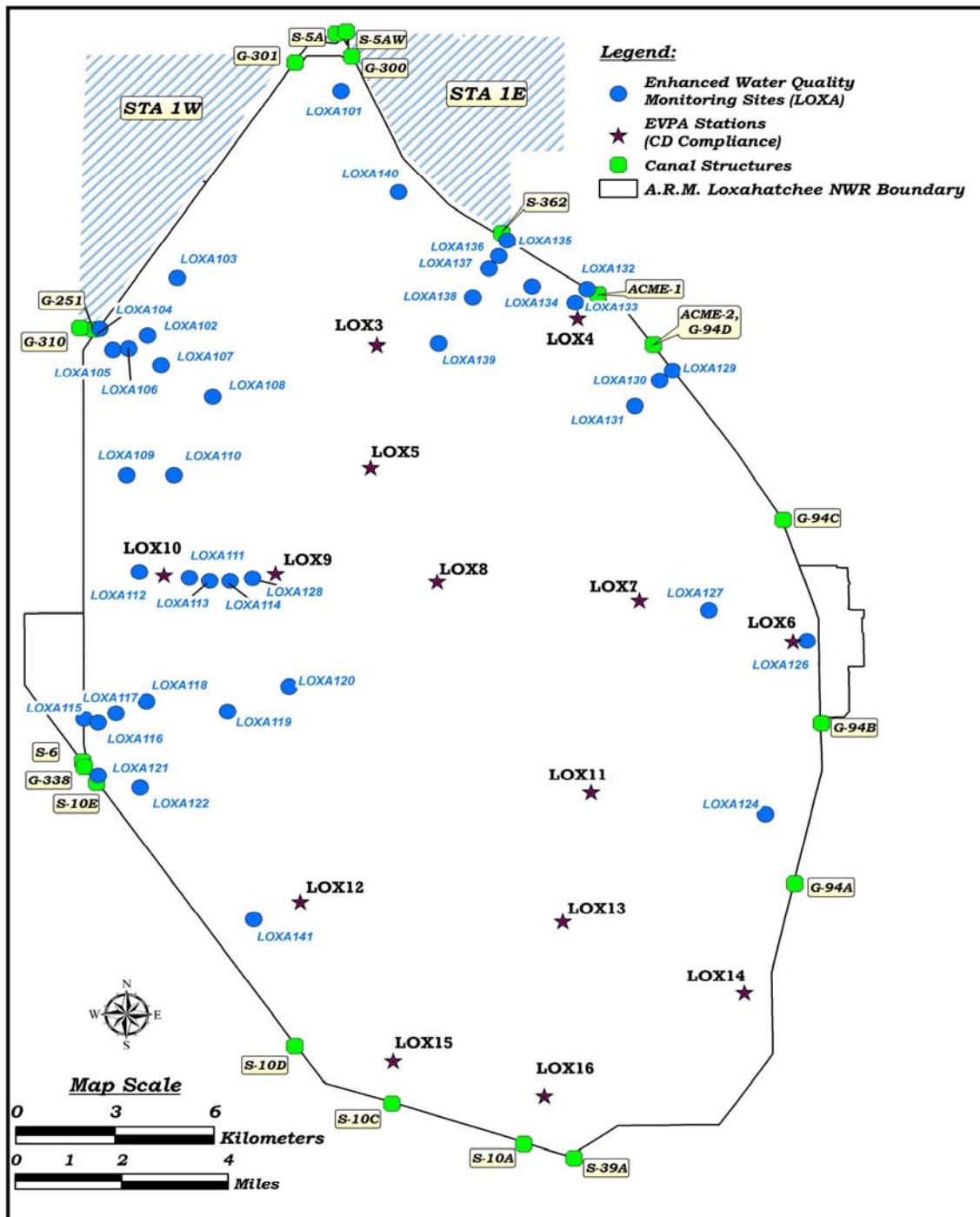
Parameter Information:

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' 55.20" 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' 25.20" 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	-80.39420	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