

Refuge's Enhanced Water Quality Program Monthly Sampling

April 2009 – June 2009 Data Update

Posted Dec. 1, 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**

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

Apr-09

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzed (R)	Depth(1)	Total Depth(2)	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	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A102	-	N	-	0.00	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A103	-	N	-	0.00	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A104	4/14/2009	F	-	-	>1M	130	46	23	25	66	523	0.190	1.6	0.007	6.6	7.9	0.030	6.1	310	5	23	25.1	6.5	
A105	-	N	-	0.00	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A106	-	N	-	0.00	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A107	-	N	-	0.00	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A108	-	N	-	0.00	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A109	-	N	-	0.00	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A110	-	N	-	0.00	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A111	-	N	-	0.00	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A112	-	N	-	0.00	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A113	-	N	-	0.01	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A114	-	N	-	0.00	0.15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A115	4/15/2009	F	0.50	-	>1M	110	36	20	20	47	401	0.050	1.4	U	6.8	7.9	0.019	5.5	250	4	15	25.8	5.1	
A116	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A117	-	N	-	0.00	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A118	-	N	-	0.03	0.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A119	-	N	-	0.05	0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A120	4/15/2009	P	0.07	0.15	0.23	-	-	-	-	54	262	-	-	-	7.2	7.6	0.009	-	-	5	U	27.9	-	
A121	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A122	-	N	-	0.00	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A123	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A124	-	N	-	0.05	0.24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A126	-	N	-	0.01	0.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A127	-	N	-	0.01	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A128	-	N	-	0.00	0.10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A129	4/13/2009	F	-	-	>1M	150	57	23	24	65	549	U	1.5	U	5.1	7.5	0.044	0.9	320	11	21	24.9	6.2	
A130	-	N	-	0.01	0.08	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A131	-	N	-	0.00	0.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A132	4/13/2009	F	-	-	>1M	150	54	24	27	78	583	U	1.5	U	6.3	7.8	0.037	0.4	350	10	20	24.8	7.8	
A133	-	N	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A134	-	N	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A135	4/13/2009	F	-	-	>1M	150	52	26	29	91	626	0.055	1.8	U	6.5	7.9	0.033	0.7	370	8	21	24.9	7.1	
A136	-	N	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A137	-	N	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A138	-	N	-	0.00	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A139	-	N	-	0.00	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A140	-	N	-	0.00	0.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
A141	-	N	-	0.04	0.29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total			40																					
Full			5																					
Partial			1																					
None			34																					

(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

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/dbhydrol/>
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-09

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzed (R) Units	Depth(1) meter	Total Depth(2) meter	DCS 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	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A102	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A103	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A104	5/19/2009	F	-	-	>1M	130	41	20	21	63	515	0.078	1.6	-	6.67	7.97	0.030	4.8	310	9.3	21	28.1	11.0
A105	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A106	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A107	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A108	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A109	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A110	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A111	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A112	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A113	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A114	-	N	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A115	5/19/2009	F	-	-	>1M	120	38	19	18	54	440	0.12	1.4	-	6.19	7.94	0.011	5.2	260	5.5	17	27.2	8.7
A116	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A117	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A118	-	N	-	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A119	-	N	-	-	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A120	-	N	-	-	0.21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A121	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A122	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A123	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A124	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A126	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A127	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A128	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A129	5/20/2009	F	0.5	-	>1M	180	67	18	18	75	647	0.019	1.5	U	3.53	7.83	0.034	6.6	400	12.0	30	26.9	7.9
A130	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A131	-	N	-	-	0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A132	5/20/2009	F	0.5	-	>1M	180	62	24	25	85	656	0.038	2	U	5.05	7.98	0.058	5.9	400	61.0	23	26.5	22.4
A133	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A134	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A135	5/20/2009	F	0.5	-	>1M	150	53	23	23	92	649	0.044	2	0.006	5.77	8.05	0.045	3.8	400	17.0	28	26.5	15.0
A136	-	N	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A137	-	N	-	-	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A138	-	N	-	-	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A139	-	N	-	-	0.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A140	-	N	-	-	0.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A141	-	N	-	-	0.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total			40																				
Full			5																				
Partial			0																				
None			35																				

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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

Jun-09

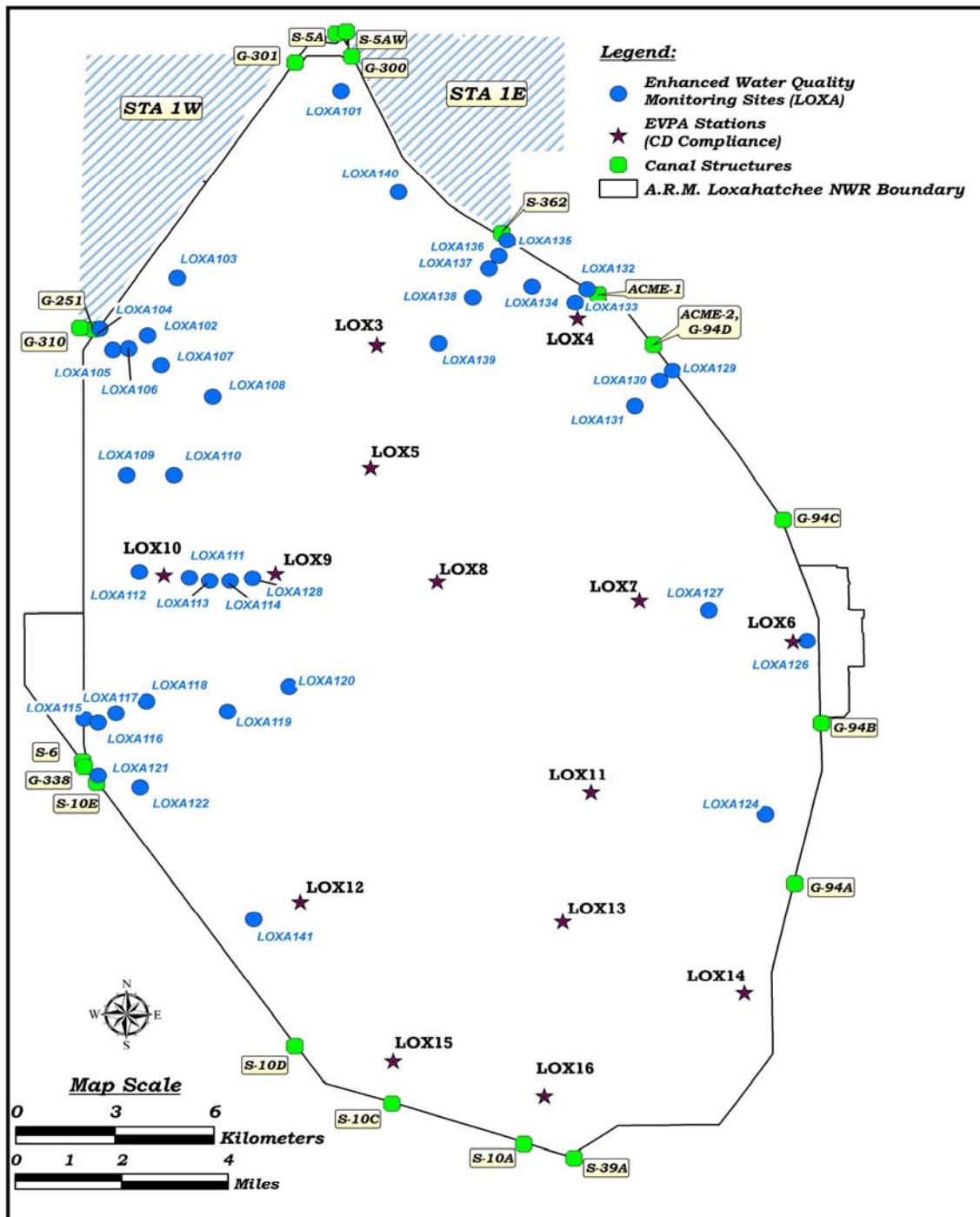
Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzed (R)	Depth	Total Depth	DCS	Alkalinity	Calcium Dissolved	Carbon, Dissolved Organic	Carbon, Total Organic	Chloride	Conductivity (Field)	Nitrate + Nitrite as Nitrogen	Nitrogen, Total Kjeldahl (TKN)	Ortho-phosphate as Phosphorus	Oxygen, Dissolved (Field)	pH (Field)	Phosphorus, Total	Silica	Solids, Total Dissolved (TDS)	Solids, Total Suspended (TSS)	Sulfate	Temperature (Field)	Turbidity
A101	6/9/2009	F	0.14	0.28	0.31	180	67	37	41	120	845	-	2	U	1.14	6.93	0.032	14	530	3.0	45.00	25.74	0.79
A102	6/9/2009	P	0.09	0.19	0.22	-	-	-	-	23	187	-	-	-	4.08	6.48	0.009	-	-	2.0	12.00	25.69	-
A103	6/9/2009	F	0.13	0.27	0.31	25	9	26	25	15	110	-	1.3	U	1.96	6.31	0.010	1.4	97	2.7	1.90	24.57	0.60
A104	6/11/2009	F	0.5	-	>1M	210	69	-	-	120	914	U	2.2	-	7.94	7.94	0.060	23	580	3.5	62.00	30.70	1.90
A105	6/11/2009	F	0.11	0.23	0.37	200	67	-	-	110	866	U	2	-	2.15	7.09	0.028	24	560	U	56.00	28.10	0.56
A106	6/11/2009	F	0.1	0.21	0.29	130	43	-	-	88	620	U	1.8	-	2.8	6.87	0.021	19	400	U	29.00	27.31	0.40
A107	6/11/2009	P	0.07	0.15	0.19	-	-	-	-	19	142	-	-	-	2.16	6.37	0.013	-	-	U	4.10	27.51	-
A108	6/9/2009	P	0.08	0.17	0.2	-	-	-	-	19	102	-	-	-	4.75	6.19	0.005	-	-	3.0	-0.03	28.64	-
A109	6/11/2009	F	0.18	0.37	0.41	75	26	-	-	66	440	U	1.5	-	2.26	6.54	0.012	8.2	280	U	28.00	28.80	0.51
A110	6/11/2009	F	0.11	0.23	0.28	15	7	-	-	17	101	U	1.8	-	4.12	6.41	0.003	1	110	U	0.60	30.57	0.52
A111	6/11/2009	F	0.1	0.2	0.41	26	8	-	-	17	111	U	1.4	-	4.85	6.5	0.004	1.3	90	U	0.42	29.20	0.43
A112	6/11/2009	F	0.18	0.36	0.42	40	17	-	-	38	257	U	1.6	-	2.38	6.55	0.012	4	190	U	17.00	29.74	0.56
A113	6/11/2009	F	0.11	0.21	0.24	23	8	-	-	17	108	U	1.2	-	4.03	6.43	0.005	1.5	91	U	0.28	24.43	0.51
A114	6/11/2009	P	0.1	0.19	0.21	-	-	-	-	15	95	-	-	-	3.5	6.23	0.005	-	-	U	0.24	28.36	-
A115	6/10/2009	F	-	-	>1M	200	67	-	-	114	-	0.02	2.1	U	-	-	0.026	17	570	8.0	70.00	-	2.70
A116	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A117	6/10/2009	F	-	-	0.38	120	43	-	-	91	-	U	1.9	U	-	-	0.031	9.8	420	1.5	43.00	-	0.50
A118	6/10/2009	F	-	-	0.42	40	13	-	-	37	-	U	1.3	U	-	-	0.007	3	170	1.5	6.40	-	0.37
A119	6/10/2009	F	-	-	0.55	25	10	-	-	27	-	U	1.6	U	-	-	0.008	4.7	140	1.5	0.72	-	0.44
A120	6/10/2009	F	-	-	0.42	16	6	-	-	21	-	U	1.2	U	-	-	-0.003	2.4	98	1.5	0.16	-	0.55
A121	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A122	6/10/2009	F	0.17	0.34	0.36	140	51	-	-	105	702	U	1.9	U	2.48	7.14	0.022	11	450	1.5	37.00	31.53	0.60
A123	-	N	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
A124	6/8/2009	F	0.11	0.23	0.39	32	16	28	28	47	224	U	1.5	U	2.46	6.51	0.037	4.8	190	2.0	4.20	28.84	0.94
A126	6/8/2009	F	0.16	0.33	0.33	66	35	32	32	84	488	U	1.7	U	3.55	6.79	0.015	6.5	330	U	37.00	29.95	0.66
A127	6/8/2009	F	0.11	0.22	0.26	22	9	24	24	10	139	U	1.7	U	5.77	6.71	0.010	5.9	130	3.0	0.21	31.69	0.77
A128	6/10/2009	P	-	-	0.28	-	-	-	-	17	-	-	-	-	-	-	-0.003	-	-	1.5	0.14	-	-
A129	6/8/2009	F	-	-	>1M	230	83	34	37	127	1001	0.38	2.3	0.064	2.15	7.41	0.130	19	630	4.5	75.00	28.11	2.40
A130	6/8/2009	F	0.17	0.35	0.35	57	24	31	31	45	295	U	1.7	U	2.3	6.51	0.017	6.5	220	U	16.00	28.21	0.66
A131	6/8/2009	F	0.12	0.23	0.28	30	12	24	24	26	157	U	1.2	U	4.85	6.52	0.005	1.4	120	U	3.70	30.05	0.60
A132	6/8/2009	F	-	-	>1M	240	88	35	36	126	996	0.37	2.5	0.074	1.6	7.37	0.130	19	640	3.0	74.00	27.76	2.20
A133	6/8/2009	F	0.18	0.37	0.44	99	35	35	37	90	560	U	2.3	0.02	1.39	6.78	0.140	11	380	U	27.00	26.36	2.40
A134	6/8/2009	F	0.14	0.29	0.33	100	39	37	38	99	590	U	2.1	U	2.23	6.81	0.029	8.6	390	U	27.00	28.86	1.10
A135	6/9/2009	F	-	-	>1M	190	71	31	31	110	834	0.46	2.1	0.076	1.4	7.24	0.130	15	510	4.5	57.00	26.93	1.70
A136	6/9/2009	F	0.15	0.31	0.42	190	66	33	34	120	844	-	2	U	0.67	6.93	0.051	16	520	3.0	54.00	25.94	1.50
A137	6/9/2009	F	0.15	0.31	0.4	95	39	36	38	93	569	-	2	U	0.77	6.61	0.027	8.5	380	U	35.00	26.43	0.87
A138	6/9/2009	F	0.11	0.22	0.28	30	10	24	25	20	134	-	1.7	U	2.76	6.44	0.007	3.6	120	2.0	1.10	26.87	0.79
A139	6/9/2009	P	0.08	0.17	0.21	-	-	-	-	15	84	-	-	-	2.82	6.79	0.014	-	-	U	-0.03	26.06	-
A140	6/9/2009	F	0.13	0.27	0.32	43	18	38	39	48	262	-	1.8	U	2.33	6.56	0.020	3.2	190	U	4.40	26.23	0.64
A141	6/10/2009	F	0.18	0.38	0.51	120	39	-	-	71	519	U	1.5	U	2.86	7.05	0.012	9.2	330	2.0	26.00	31.00	0.48
Total			40																				
Full			31																				
Partial			6																				
None			3																				

(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

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

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