

Refuge's Enhanced Water Quality Program Monthly Sampling

July 2008 – September 2008 Data Update

Posted Dec., 2008

by:

Matt Harwell

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

Phone: 772-562-3909 x 255

Email: matthew_harwell@fws.gov

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

Jul-08

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	mMHSO/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	7/22/2008	P	0.08	0.17	0.19					77	576				2.85	6.92	0.0067			U	8.30	29.01	
A102	7/22/2008	P	0.06	0.13	0.16					20	183				4.24	6.49	U			2	0.33	30.05	
A103	7/22/2008	P	0.06	0.13	0.21					17	129				2.82	6.33	U			U	0.47	27.24	
A104	7/23/2008	F			>1m	200	61	34	33	100	911	0.0091	2	U	3.67	7.44	0.0320	21.0	530	4	49.00	30.92	1.80
A105	7/23/2008	F	0.12	0.23	0.34	68	21	26	26	25	248	U	1.4	U	0.84	6.42	0.0034	3.6	170	U	1.30	27.49	0.65
A106	7/23/2008	P	0.07	0.14	0.23					21	199				3.24	6.38	U			3.5	0.60	27.29	
A107		N			0.1																		
A108	7/22/2008	P	0.05	0.1	0.15					25	141				6.87	6.48	U			4	U	32.97	
A109	7/23/2008	F	0.12	0.24	0.34	32	9.7	19	19	14	118	U	1.2	U	1.79	6.29	U	4.8	99	1.5	0.37	28.93	0.66
A110		N			0.18																		
A111	7/23/2008	P	0.09	0.18	0.27					14	111	U			2.19	6.05	U			1.5	0.27	27.62	
A112	7/23/2008	F	0.11	0.23	0.33	34	11	16	16	14	127	U	1	U	2.17	6.36	U	4.1	100	5	0.41	27.49	0.41
A113	7/23/2008	F	0.11	0.23	0.43	24	7.2			13	98	U	1.1	U	2.13	6.16	U	3.2	76	1.5	0.23	28.58	0.41
A114	7/23/2008	F	0.1	0.21	0.39	18	6.6	16	16	15	114	0.0091	1.1	U	1.03	6.40	U	3.0	69	1.5	0.23	27.64	0.63
A115	7/24/2008	F			>1m	110	35	23	24	60	475	0.0160	1.5	U	2.29	7.37	0.0310	13.0	320	1.5	25.00	25.52	1.70
A116		N																					
A117	7/24/2008	P	0.09	0.19	0.32					13	142				2.13	6.10	0.0110			U	1.00	25.26	
A118	7/24/2008	F	0.14	0.28	0.47	24	7.7	15	15	11	104	0.0120	1	U	3.49	6.01	0.0036	5.6	89	U	0.67	26.38	0.46
A119	7/24/2008	F	0.14	0.28	0.37	25	7.7	19	18	11	104	U	1.2	U	3.55	6.07	0.0044	8.0	88	U	0.29	26.99	0.40
A120	7/24/2008	F	0.17	0.35	0.46	14	5.2	14	14	15	972	0.0032	1.2	U	2.89	6.05	0.0043	4.6	78	U		26.98	0.47
A121		N																					
A122	7/24/2008	F	0.12	0.25	0.32	37	11	16	15	11	117	U	1	U	1.58	6.21	U	4.8	94	U	1.20	26.22	0.60
A123		N																					
A124	7/24/2008	F	0.12	0.23	0.44	31	13	20	20	21	146	U	1.1	U	0.70	5.98	U	5.1	110	U	0.28	25.71	0.50
A126	7/21/2008	P	0.09	0.18	0.38					40	255				10.05	9.70	0.0068			U	1.00	35.67	
A127	7/21/2008	P	0.09	0.19	0.38					22	119				11.27	8.09	0.0046			2	U	37.72	
A128	7/24/2008	P	0.08	0.17	0.31					17	103				3.86	6.21	0.0051			U	U	26.45	
A129	7/21/2008	F			>1m	120	45	19	20	63	481	0.0190	1.2	U	2.77	7.19	0.0230	11.0	300	4	17.00	31.30	2.60
A130	7/21/2008	P	0.08	0.16	0.23					12	109				5.43	7.14	0.0090			1.5	0.74	33.81	
A131	7/21/2008	P	0.08	0.17	0.36					11	90				11.14	7.79	0.0210			U	0.32	36.66	
A132	7/21/2008	F			>1m	130	54	16	17	70	549	0.0180	1.1	U	3.42	7.34	0.0200	10.0	350	2.7	24.00	30.44	1.60
A133		N																					
A134	7/21/2008	P	0.09	0.18	0.24					22	155				10.58	7.64	0.0097			4	0.56	36.66	
A135	7/22/2008	F			>1m	130	55	16	16	76	569	0.0190	1.1	U	3.93	7.45	0.0130	10.0	350	U	26.00	30.25	1.00
A136	7/22/2008	P	0.1	0.19	0.27					27	235				2.36	6.56	0.0260			U	0.75	28.98	
A137	7/22/2008	F	0.1	0.21	0.34	42	16	26	26	20	157	U	1.6	U	1.96	6.35	U	6.8	140	U	0.39	30.34	0.78
A138	7/22/2008	P	0.09	0.19	0.38					15	118				3.12	7.18	U			2	0.27	30.52	
A139	7/22/2008	P	0.08	0.17	0.26					12	84				4.55	7.03	U			U	0.23	29.74	
A140	7/22/2008	P	0.09	0.18	0.22					20	141				4.37	6.42	U			2.5	0.38	31.22	
A141	7/24/2008	F	0.18	0.36	0.53	30	9.9	14	13	13	114	U	1.1	U	0.76	6.01	0.0076	3.4	84	1.5	0.54	27.02	0.65
Total		40																					
Full		17																					
Partial		17																					
None		6																					

(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
* Failed Lab QC/QA

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/orq/emas/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

Aug-08

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	mMHSO/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	8/26/2008	F	0.21	0.41	0.52	120	47	17	18	51	179	0.0030	1.10	0.0030	1.80	7.12	0.0075	9.6	270	1.4	28.00	28.94	0.53
A102	8/26/2008	F	0.18	0.37	0.53	110	33	25	24	83	562	0.0058	1.40	0.0030	1.00	6.81	0.0073	21.0	370	2.0	30.00	28.99	0.92
A103	8/26/2008	F	0.26	0.52	0.60	95	31	24	25	78	511	0.0030	1.30	0.0030	0.60	6.75	0.0110	19.0	300	1.4	25.00	28.66	0.66
A104	8/27/2008	F			>1m	120	41	19	20	50	447	0.4700	1.40	0.0030	4.39	7.52	0.0360	9.3	300	3.3	23.00	30.22	1.10
A105	8/27/2008	F	0.28	0.57	0.67	160	53	27	26	60	595	0.0120	1.90	0.0030	1.11	7.23	0.0180	16.0	410	1.4	36.00	29.71	0.95
A106	8/27/2008	F	0.30	0.60	0.63	110	38	18	19	53	439	0.0030	1.20	0.0042	2.61	7.11	0.0120	11.0	290	1.4	19.00	29.69	0.39
A107	8/27/2008	F	0.20	0.40	0.48	94	31	27	27	82	528	0.0034	1.30	0.0030	2.67	6.93	0.0069	20.0	370	1.5	32.00	30.83	0.43
A108	8/26/2008	F	0.17	0.35	0.49	14	4	17	17	10	67	0.0030	0.98	0.0030	2.50	6.33	0.0058	2.1	78	2.0	0.51	30.46	0.65
A109	8/27/2008	F	0.24	0.49	0.69	76	23	21	22	50	335	0.0030	1.10	0.0030	2.06	7.53	0.0079	12.0	250	1.4	8.40	30.29	0.41
A110	8/27/2008	F	0.20	0.41	0.54	28	7	17	16	14	102	0.0160	0.87	0.0030	3.77	7.75	0.0064	4.2	120	1.4	0.59	31.70	0.49
A111	8/27/2008	F	0.25	0.50	0.57	21	6	15	14	12	85	0.0030	0.83	0.0030	3.54	7.62	0.0030	4.7	110	1.4	0.54	31.05	0.47
A112	8/27/2008	F	0.24	0.48	0.65	32	9	17	17	12	109	0.0030	0.73	0.0030	1.91	7.41	0.0081	3.9	130	1.3	0.70	30.27	0.52
A113	8/27/2008	F	0.20	0.40	0.55	16	5	13	13	10	73	0.0030	0.62	0.0030	3.00	7.56	0.0044	2.0	86	1.4	0.51	30.71	0.55
A114	8/27/2008	F	0.21	0.42	0.57	15	5	15	16	9	67	0.0053	0.88	0.0030	2.31	7.47	0.0045	2.1	90	1.4	0.48	30.24	0.42
A115	8/28/2008	F	0.50		>1m	170	59	30	31	65	651	0.3800	2.00	0.0160	4.47	7.70	0.0460	15.0	470	44.0	52.00	28.88	4.40
A116		N			-																		
A117	8/28/2008	F	0.20	0.41	0.53	38	9	14	15	14	109	0.0140	0.76	0.0033	0.73	6.26	0.0120	14.0	95	1.5	1.70	27.50	0.44
A118	8/28/2008	F	0.26	0.52	0.61	18	6	12	13	9	76	0.0130	0.55	0.0030	1.12	6.05	0.0081	15.0	86	1.4	0.92	29.34	0.44
A119	8/28/2008	F	0.49	0.97	0.57	17	5	12	13	9	72	0.0110	0.75	0.0034	2.04	6.31	0.0030	4.4	94	2.0	0.47	29.56	0.39
A120	8/28/2008	F	0.25	0.49	0.58	12	4	12	12	10	67	0.0110	0.64	0.0030	3.02	6.16	0.0030	2.2	79	2.0	0.03	30.25	0.50
A121		N			-																		
A122	8/28/2008	F	0.15	0.31	0.45	33	9	15	16	12	107	0.0047	0.66	0.0030	0.48	6.29	0.0120	3.1	100	1.4	1.50	28.76	0.71
A123		N			-																		
A124	8/28/2008	F	0.15	0.31	0.45	25	11	19	20	19	125	0.0180	0.85	0.0030	0.45	6.82	0.0071	4.4	130	2.0	0.43	27.50	0.76
A126	8/25/2008	F	0.16	0.33	0.52	37	11	15	15	16	126	0.0030	1.20	0.0030	3.42	7.04	0.0032	5.1	73	2.0	1.00	30.24	0.62
A127	8/25/2008	F	0.16	0.34	0.51	13	5	15	15	16	86	0.0030	0.98	0.0030	4.27	7.15	0.0030	3.9	49	1.4	0.46	30.23	0.74
A128	8/28/2008	F	0.21	0.42	0.49	13	4	14	14	9	65	0.0030	0.85	0.0030	3.45	6.12	0.0032	1.5	87	3.0	0.03	30.45	0.50
A129	8/25/2008	F			>1m	150	53	22	23	52	527	1.3000	1.90	0.0310	4.14	7.51	0.0520	9.4	320	6.0	38.00	29.37	1.10
A130	8/25/2008	F	0.27	0.55	0.71	120	39	17	16	62	469	0.0030	0.89	0.0030	1.82	7.11	0.0099	11.0	270	1.4	17.00	28.11	0.68
A131	8/25/2008	F	0.25	0.52	0.61	33	9	16	16	13	111	0.0030	0.76	0.0030	3.35	7.36	0.0048	5.1	56	1.4	0.80	30.67	0.62
A132	8/25/2008	F			>1m	140	54	23	24	54	553	1.3000	1.80	0.0430	2.60	7.41	0.0560	11.0	330	1.5	40.00	29.23	0.84
A133	8/25/2008	F	0.14	0.28	0.61	110	44	16	18	52	468	0.0030	1.20	0.0030	1.99	7.17	0.0380	10.0	260	2.0	27.00	29.97	1.90
A134	8/25/2008	F	0.24	0.49	0.72	140	45	17	17	51	461	0.0660	1.00	0.0065	2.67	7.23	0.0088	9.9	270	1.4	27.00	29.74	0.44
A135	8/26/2008	F			>1m	160	59	24	25	59	588	0.9100	1.90	0.0490	1.60	7.37	0.0650	12.0	350	1.5	43.00	29.19	0.65
A136	8/26/2008	F	0.16	0.32	0.59	150	51	21	21	52	518	0.1900	1.60	0.0030	0.80	7.17	0.0160	10.0	300	3.5	34.00	28.90	0.98
A137	8/26/2008	F	0.25	0.51	0.73	140	48	19	18	52	479	0.0140	1.30	0.0030	1.20	7.05	0.0100	9.2	280	1.4	29.00	29.09	0.63
A138	8/26/2008	F	0.21	0.42	0.57	100	35	16	16	57	428	0.0055	1.10	0.0030	2.60	6.99	0.0076	12.0	240	1.4	20.00	29.98	0.46
A139	8/26/2008	F	0.15	0.30	0.51	14	5	15	15	9	60	0.0093	1.10	0.0030	2.10	6.38	0.0074	3.4	35	2.5	0.58	29.68	0.68
A140	8/26/2008	F	0.21	0.42	0.59	130	42	17	17	55	458	0.0089	1.00	0.0030	2.70	6.99	0.0098	11.0	360	4.7	23.00	29.25	0.63
A141	8/28/2008	F	0.45	0.92	1.20	27	7	12	12	10	90	0.0030	0.72	0.0030	0.55	6.30	0.0041	15.0	87	2.0	0.66	29.56	0.49
Total			40																				
Full			37																				
Partial			0																				
None			3																				

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Data from June 2004 to May 2006 available on DBHYDRO:

<http://www.sfwmd.gov/sofitema/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

Sep-08

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	mMHSO/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	9/23/2008	F	0.15	0.30	0.37	150	57	25	23	82	644	0.0110	1.40	0.0030	1.75	7.17	0.0110	14.00	420	1.40	27.00	27.37	0.53
A102	9/23/2008	F	0.11	0.22	0.29	39	11	20	19	16	143	0.0030	1.00	0.0030	2.65	6.72	0.0072	12.00	110	1.50	1.20	27.87	0.63
A103	9/23/2008	F	0.14	0.29	0.36	28	8	19	19	12	102	0.0064	1.00	0.0030	1.43	6.78	0.0083	11.00	97	4.50	0.86	26.38	0.52
A104	9/24/2008	F			>1m	150	53	32	31	80	662	0.0140	1.80	0.0030	3.03	7.38	0.0360	19.00	420	3.50	38.00	28.87	1.90
A105	9/24/2008	F	0.19	0.38	0.43	87	29	20	13	50	367	0.0030	0.98	0.0030	2.74	6.74	0.0140	20.00	230	1.40	7.30	26.86	0.59
A106	9/24/2008	F	0.13	0.27	0.35	58	19	22	20	30	231	0.0030	0.97	0.0030	3.31	6.64	0.0083	14.00	150	1.40	2.60	28.21	0.66
A107	9/24/2008	P	0.07	0.15	0.26					13	111				2.73	6.46	0.0058			1.40	0.72	26.81	
A108	9/23/2008	F	0.11	0.22	0.28	11	5	22	22	14	91	0.0047	1.60	0.0030	2.95	6.76	0.0049	3.90	90	1.40	0.03	27.95	0.74
A109	9/24/2008	F	0.13	0.27	0.54	27	8	17	16	11	104	0.0030	0.95	0.0030	1.68	6.45	0.0110	4.40	74	1.40	0.67	27.82	0.62
A110	9/24/2008	P	0.09	0.19	0.43					13	83				6.53	7.21	0.0066			1.40	0.43	27.46	
A111	9/24/2008	F	0.16	0.32	0.45	18	7	17	16	11	86	0.0030	0.87	0.0030	2.83	6.46	0.0090	3.30	70	1.40	0.45	27.25	1.10
A112	9/24/2008	F	0.21	0.42	0.52	29	9	17	17	14	115	0.0500	1.20	0.0030	1.70	6.41	0.0210	6.00	81	1.50	0.61	27.92	0.61
A113	9/24/2008	F	0.16	0.35	0.45	13	6	17	17	10	77	U	1.10	0.0030	2.24	6.56	0.0037	5.00	59	1.40	0.47	27.04	0.71
A114	9/24/2008	F	0.14	0.29	0.47	12	5	17	16	12	78	0.0030	1.10	0.0030	1.20	6.91	0.0065	4.70	52	1.40	0.43	26.42	0.60
A115	9/25/2008	F	0.50		>1m	120	41	24	25	56	476	0.0160	1.40	0.0030	3.58	7.37	0.0360	15.00	300	3.50	22.00	27.95	1.80
A116		N																					
A117	9/25/2008	F	0.15	0.30	0.48	28	9	17	17	12	103	0.0030	0.85	0.0140	0.71	6.08	0.0180	6.80	85	1.40	0.99	25.23	1.10
A118	9/25/2008	F	0.19	0.38	0.49	22	7	16	16	10	85	0.0030	1.00	0.0049	1.15	5.99	0.0100	6.90	71	1.40	0.64	25.15	0.60
A119	9/25/2008	F	0.21	0.42	0.53	18	6	18	18	12	84	0.0045	0.93	0.0030	3.47	6.32	0.0070	7.60	82	2.00	0.45	25.00	0.63
A120	9/25/2008	F	0.26	0.51	0.58	14	5	16	19	14	81	0.0030	1.00	0.0030	5.94	6.42	0.0053	4.60	69	2.50	0.42	25.80	0.67
A121		N			-																		
A122	9/25/2008	F	0.20	0.40	0.52	28	10	17	18	11	103	0.0030	0.82	0.0030	0.75	6.23	0.0150	5.20	87	1.40	1.10	25.22	0.77
A123		N			-																		
A124	9/22/2008	F	0.18	0.37	0.57	22	9	19	19	15	105	0.0089	1.10	0.0030	8.50	7.31	0.0200	3.80	85	2.00	0.03	26.89	0.91
A126	9/22/2008	F	0.16	0.32	0.53	33	12	16	17	14	121	0.0030	1.10	0.0030	39.30	6.42	0.0059	3.60	92	2.00	0.55	28.42	0.72
A127	9/22/2008	F	0.12	0.24	0.50	41	7	19	19	14	94	0.0035	0.99	0.0030	4.12	6.34	0.0053	5.70	74	1.40	0.03	29.19	0.50
A128	9/25/2008	F	0.14	0.28	0.35	10	5	19	19	13	76	0.0056	1.10	0.0120	4.36	6.13	0.0084	3.90	74	1.50	0.42	25.95	0.60
A129	9/22/2008	F	0.50		>1m	140	52	24	24	70	586	0.0130	1.40	0.0030	1.23	7.13	0.0340	15.00	360	3.00	28.00	28.82	1.80
A130	9/22/2008	F	0.12	0.34	0.47	84	29	16	16	44	329	0.0030	0.73	0.0030	1.75	6.80	0.0067	12.00	210	1.40	4.30	28.75	0.85
A131	9/22/2008	F	0.15	0.31	0.45	41	14	18	18	29	188	0.0030	1.10	0.0032	3.77	6.67	0.0030	11.00	130	1.40	0.93	28.89	0.48
A132	9/22/2008	F	0.50		>1m	140	52	24	24	70	583	0.0030	1.20	0.0030	1.01	7.15	0.0350	15.00	370	3.50	27.00	29.01	1.60
A133	9/22/2008	P	0.07	0.15	0.36					46	410				1.08	6.86	0.0190			1.40	8.80	27.04	
A134	9/22/2008	F	0.14	0.28	0.55	100	39	18	17	46	401	0.0079	0.94	0.0030	2.98	6.94	0.0100	16.00	250	2.70	12.00	28.19	0.69
A135	9/23/2008	F			>1m	130	46	23	21	65	524	0.0095	1.60	0.0030	1.31	7.09	0.0540	16.00	350	4.00	20.00	28.82	1.80
A136	9/23/2008	P	0.09	0.19	0.60					50	407				2.56	7.06	0.0210			1.40	9.70	28.21	
A137	9/23/2008	F	0.15	0.31	0.41	81	29	19	17	47	340	0.0030	1.00	0.0030	1.89	6.77	0.0140	17.00	220	1.40	6.00	28.40	0.71
A138	9/23/2008	F	0.13	0.27	0.35	40	15	22	20	33	208	0.0030	1.20	0.0030	5.80	7.09	0.0150	12.00	140	2.50	1.50	28.61	0.61
A139	9/23/2008	F	0.10	0.20	0.29	13	6	23	22	10	74	0.0042	1.30	0.0030	3.39	6.37	0.0140	5.30	90	2.50	0.43	27.68	0.70
A140	9/23/2008	P	0.09	0.19	0.31					32	212				7.39	7.04	0.0030			2.00	1.40	29.07	
A141	9/25/2008	F	0.37	0.74	1.32	25	8	15	15	10	91	0.0370	0.83	0.0030	1.55	6.32	0.0130	3.70	63	1.40	0.83	26.06	0.67
Total		40																					
Full		32																					
Partial		5																					
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
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

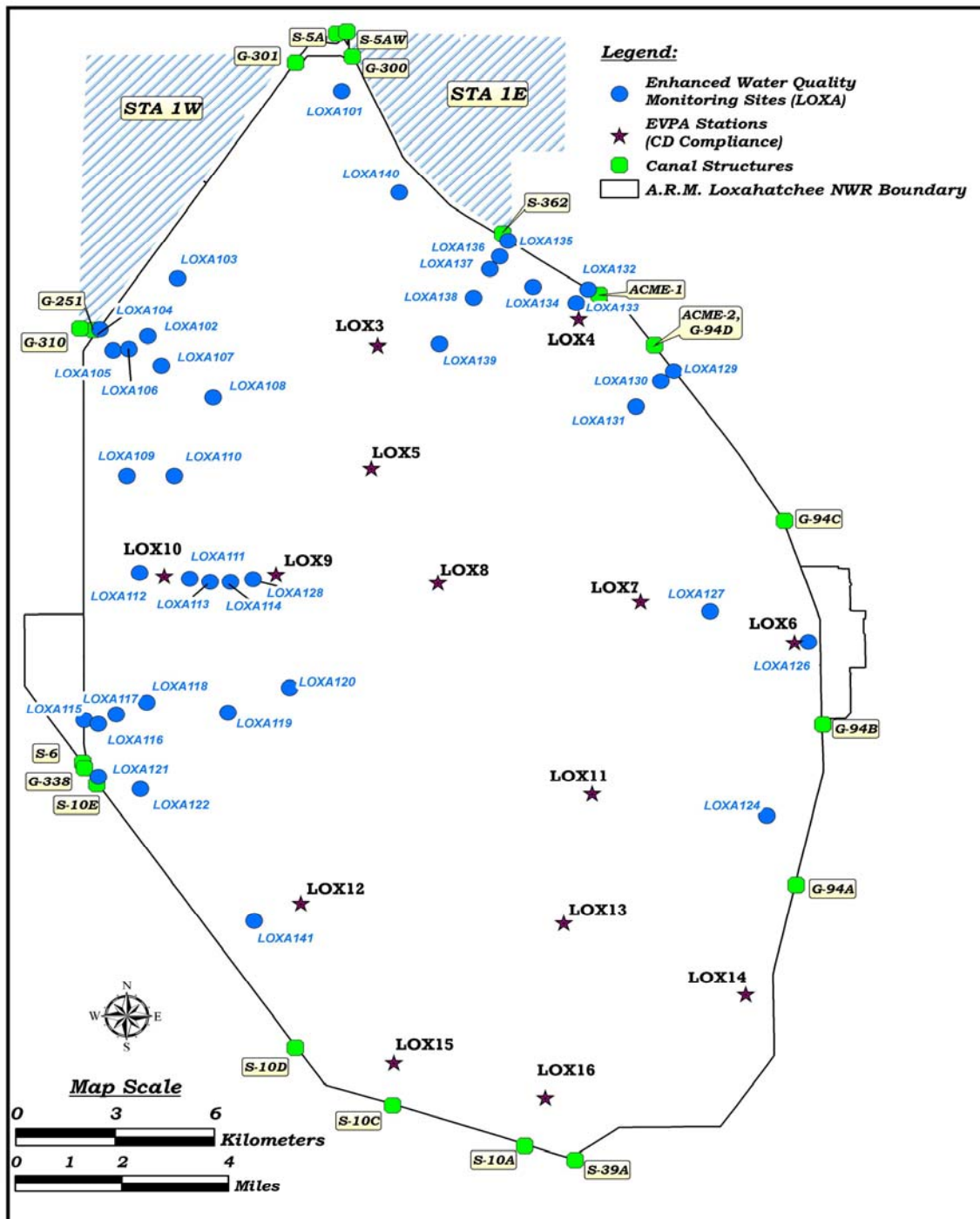
Parameter Information:

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° 25' 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' 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	80.3942	80° 23' 39.12" W	26° 38' 37.5" N	80° 23.652' W	26° 25.625' 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