

**REFUGE'S ENHANCED WATER QUALITY PROGRAM
MONTHLY SAMPLING**

January through March, 2015 Data Update
Submitted April 24, 2015

by:

Donatto Surratt

**Everglades National Park
c/o A.R.M. Loxahatchee National Wildlife Refuge**

Phone: 561.735.6003

Email: donatto_surratt@nps.gov

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

Jan-15

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	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 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 mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	01/06/15	F	0.15	0.30	0.40	180	65	26	25	163	915	0.004	1.3	0.007	1.4	6.9	0.018	12.3	559	U	42.7	20.8	0.8	
A102	01/06/15	F	0.15	0.30	0.38	55	16	18	18	25	192	0.008	0.8	0.003	2.1	6.6	0.015	5.6	143	U	1.4	21.4	0.5	
A103	01/06/15	F	0.13	0.26	0.35	45	13	18	18	19	152	U	0.8	U	1.8	6.4	0.012	2.2	117	U	1.2	20.7	0.4	
A104	01/06/15	F	>1M	>1M	>1M	152	53	18	20	113	717	0.012	1.0	0.004	4.5	7.5	0.022	7.6	429	U	42	23.4	0.5	
A105	01/06/15	F	0.16	0.32	0.48	83	24	16	16	39	296	U	0.7	0.006	1.7	6.6	0.018	9.2	192	U	4.1	20.9	0.4	
A106	01/06/15	F	0.14	0.28	0.38	51	15	16	16	26	195	0.027	0.7	0.003	2.1	6.5	0.016	4.6	129	U	2.1	21.4	0.3	
A107	01/06/15	F	0.14	0.28	0.38	40	12	19	20	23	157	0.006	0.9	U	2.0	6.3	0.013	1.8	123	U	1	21.3	0.4	
A108	01/06/15	F	0.13	0.26	0.32	23	7	27	28	22	128	0.009	1.6	U	6.4	6.7	0.012	0.9	129	U	U	24.7	0.9	
A109	01/07/15	F	0.25	0.51	0.61	51	12	15	17	22	164	U	0.8	0.003	1.4	6.5	0.010	5.2	116	U	1.2	21.3	0.4	
A110	01/07/15	F	0.16	0.32	0.50	29	7	21	24	20	121	0.007	1.4	U	3.0	6.6	0.008	1.3	107	U	0.7	21.5	0.6	
A111	01/07/15	F	0.19	0.39	0.53	22	6	14	16	14	92	U	0.7	0.003	2.8	6.2	0.009	3.8	77	U	0.8	20.9	0.4	
A112	01/07/15	F	0.20	0.40	0.56	39	11	14	17	18	134	0.010	0.8	0.004	1.9	6.5	0.011	4.4	105	U	0.9	21.2	0.5	
A113	01/07/15	F	0.19	0.39	0.50	21	6	16	18	14	89	0.006	0.8	U	5.6	6.5	0.009	2.2	77	U	U	22.1	0.5	
A114	01/07/15	F	0.17	0.35	0.49	16	5	16	18	14	83	U	0.9	U	5.9	6.4	0.009	1.8	78	U	U	22.0	0.6	
A115	01/06/15	F	>1M	>1M	>1M	178	57	23	26	132	848	0.017	1.2	0.006	5.1	7.5	0.021	10.3	522	U	55.7	22.8	0.6	
A117	01/05/15	F	0.19	0.38	0.55	105	33	26	24	75	481	0.005	1.2	0.009	1.1	6.8	0.012	17.9	310	U	13	20.8	0.5	
A118	01/05/15	F	0.20	0.40	0.56	41	12	16	16	24	162	U	1.0	0.006	2.5	6.4	U	8.4	126	U	1.3	22.1	0.5	
A119	01/05/15	F	0.24	0.48	0.59	31	9	17	17	15	113	0.012	0.8	0.002	5.2	6.7	U	4.2	106	U	U	24.0	0.5	
A120	01/05/15	F	0.22	0.44	0.62	22	6	17	17	18	106	U	0.9	0.004	4.5	6.5	U	5.4	93	U	U	23.6	0.6	
A122	01/05/15	F	0.19	0.38	0.55	98	31	26	24	57	428	U	1.0	0.007	1.4	6.8	0.010	13.7	266	U	5.3	22.2	0.6	
A124	01/07/15	F	0.17	0.34	0.75	33	11	14	16	20	126	U	0.7	0.003	3.3	6.4	0.013	4.4	93	U	U	22.1	0.5	
A126	01/05/15	F	0.22	0.45	0.60	40	13	18	17	23	167	U	0.9	0.009	6.0	6.8	U	3.8	115	U	0.9	23.3	0.7	
A127	01/05/15	F	0.18	0.36	0.56	16	7	19	19	17	99	0.006	0.9	0.005	6.2	6.6	U	4.4	99	U	U	24.0	0.8	
A128	01/07/15	F	0.17	0.34	0.44	17	5	17	19	15	85	0.012	1.0	U	6.4	6.3	0.008	1.3	82	U	U	22.6	0.6	
A129	01/06/15	F	>1M	>1M	>1M	160	57	22	23	138	800	0.006	1.1	0.005	4.0	7.5	0.024	7.8	476	U	33.1	23.9	0.6	
A130	01/08/15	F	0.20	0.40	0.50	135	42	22	25	103	569	U	1.1	0.004	0.8	6.7	0.013	11.2	350	U	3.5	17.5	0.6	
A131	01/08/15	F	0.17	0.35	0.48	56	20	33	25	64	308	U	1.2	U	6.3	6.9	0.007	3.1	208	U	0.8	16.9	0.7	
A132	01/06/15	F	>1M	>1M	>1M	168	65	20	23	142	844	0.010	1.1	0.004	3.6	7.4	0.021	6.9	507	U	42.5	23.6	0.6	
A133	01/08/15	F	0.15	0.30	0.45	179	54	25	28	124	735	0.003	1.5	0.003	0.7	6.8	0.023	9.4	436	U	8.8	17.9	1.4	
A134	01/08/15	F	0.19	0.38	0.49	152	49	25	26	113	658	U	1.4	0.002	1.3	6.9	0.011	9.5	406	U	8.3	18.4	2.4	
A135	01/06/15	F	>1M	>1M	>1M	197	75	17	19	169	1012	0.069	1.2	0.008	4.0	7.5	0.031	8.9	599	U	61.3	23.9	1.5	
A136	01/08/15	F	0.21	0.43	0.68	184	63	25	29	147	863	U	1.7	0.004	0.1	6.9	0.032	9.6	524	U	21.3	18.0	2.2	
A137	01/08/15	F	0.15	0.31	0.42	149	49	25	27	113	649	U	1.4	0.004	3.5	7.0	0.012	12.1	420	U	9	17.4	0.6	
A138	01/08/15	F	0.17	0.35	0.40	81	29	27	29	81	427	0.003	1.6	0.003	7.6	7.2	0.010	4.2	292	U	1.8	16.3	0.6	
A139	01/08/15	F	0.13	0.26	0.32	22	11	38	41	31	158	U	2.1	U	7.2	6.8	0.007	0.8	162	U	U	15.8	0.9	
A140	01/06/15	F	0.16	0.32	0.40	62	21	27	25	64	343	U	1.1	0.008	2.8	6.8	0.013	5.4	239	U	1.6	22.1	0.5	
A141	01/05/15	F	0.68	1.36	>1M	85	26	22	21	58	370	0.006	0.9	0.007	2.6	6.9	0.090	12.7	244	U	6.3	23.0	0.5	
Total			37																					
Full			37																					
Partial			0																					
None			0																					

(1) Sample depth

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

(3) Depth to consolidated substrate

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

The analyte was detected in both the sample and the associated method blank

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.

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	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 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 mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU	
A101	02/10/15	F	0.15	0.30	0.33	161	54	24	25	169	893	U	1.4	0.006	1.6	6.9	0.005	10.4	529	U	30.4	17.0	0.5	
A102	02/10/15	F	0.13	0.26	0.30	41	12	19	18	24	171	U	1.1	U	2.5	6.6	0.004	1.3	119	U	1.6	17.2	0.5	
A103	02/10/15	F	0.11	0.22	0.30	39	11	19	20	22	153	U	1.1	U	4.6	7.0	0.002	0.5	102	U	1.3	17.9	0.5	
A104	02/10/15	F	>1M	>1M	>1M	156	50	19	19	118	730	0.031	1.2	0.003	6.9	7.8	0.014	6.8	432	U	40	19.2	0.7	
A105	02/10/15	F	0.15	0.30	0.40	60	17	15	15	33	227	0.007	0.8	U	2.5	6.8	0.005	4.8	148	U	4.2	17.7	0.5	
A106	02/10/15	P	0.08	0.16	0.30					30	211				2.7	6.6	0.005			U	2.2	17.5		
A107	02/10/15	P	0.09	0.18	0.21					24	143				3.7	6.7	0.002			U	1	18.2		
A108	02/10/15	P	0.10	0.19	0.25					28	126				6.4	6.9	0.004			U	0.7	21.7		
A109	02/11/15	F	0.18	0.36	0.51	30	9	14	14	20	136	0.002	0.8	U	3.5	6.6	0.011	2.8	79	U	1.5	16.8	0.6	
A110	02/11/15	F	0.12	0.24	0.38	16	6	23	23	22	118	U	1.5	U	5.2	6.5	0.008	0.3	96	U	0.7	15.9	0.9	
A111	02/11/15	F	0.12	0.25	0.39	13	5	13	14	15	85	0.003	0.7	U	5.2	6.9	0.006	1.5	56	U	0.8	15.8	0.8	
A112	02/11/15	F	0.19	0.38	0.52	22	8	13	13	17	105	0.003	0.7	U	3.6	7.0	0.011	2.3	75	U	1	16.4	0.5	
A113	02/11/15	F	0.16	0.33	0.42	13	4	14	15	15	83	0.002	0.9	U	6.7	6.7	0.006	0.9	58	U	0.7	16.5	0.9	
A114	02/11/15	F	0.16	0.33	0.55	11	4	14	14	14	79	U	0.8	U	6.0	6.6	0.008	0.6	52	U	0.7	17.2	0.7	
A115	02/10/15	F	>1M	>1M	>1M	155	49	22	22	124	776	0.008	1.4	0.004	6.3	7.7	0.012	12.4	465	U	49.5	18.9	0.8	
A117	02/12/15	F	0.15	0.30	0.48	62	19	18	17	46	278	U	0.9	U	0.3	6.7	0.011	10.4	198	U	5.1	15.0	0.6	
A118	02/12/15	F	0.19	0.37	0.52	26	8	12	13	20	125	0.003	0.7	0.004	2.7	6.3	0.008	7.0	98	U	1.5	15.6	0.4	
A119	02/12/15	F	0.20	0.40	0.51	24	8	17	18	17	109	0.014	1.0	0.003	6.5	6.8	0.008	4.0	94	U	U	17.2	0.4	
A120	02/12/15	F	0.24	0.47	0.56	15	5	14	14	20	101	0.003	0.9	0.002	5.2	6.4	0.006	4.8	87	U	U	16.7	0.5	
A122	02/12/15	F	0.16	0.31	0.43	84	26	19	21	54	341	0.009	1.0	0.005	U	6.7	0.014	11.5	233	U	4.6	16.4	0.6	
A124	02/11/15	P	0.90	0.19	0.43					22	121				2.3	6.3	0.012			U	0.8	16.4		
A126	02/12/15	F	0.19	0.37	0.54	40	13	14	14	23	152	0.004	1.2	0.016	3.5	6.7	0.004	1.7	96	U	0.9	15.8	0.8	
A127	02/12/15	F	0.19	0.37	0.52	15	6	16	17	22	106	0.003	1.1	0.005	6.8	6.5	0.006	5.0	84	U	U	16.2	0.5	
A128	02/11/15	F	0.15	0.30	0.45	11	4	15	15	15	85	0.003	1.0	U	6.8	6.7	0.007	0.5	67	U	U	17.2	0.8	
A129	02/10/15	F	>1M	>1M	>1M	157	48	22	22	133	746	0.002	1.3	U	5.9	7.5	0.014	6.9	420	U	15.6	19.5	1.0	
A130	02/09/15	F	0.15	0.30	0.40	93	33	21	22	97	502	U	1.1	0.003	6.6	7.1	0.008	7.7	302	U	2.9	19.2	0.5	
A131	02/09/15	F	0.19	0.38	0.42	46	17	25	25	56	276	U	1.7	0.014	5.3	6.9	U	0.1	184	U	0.7	18.9	0.5	
A132	02/10/15	F	>1M	>1M	>1M	189	57	22	21	173	952	0.056	1.4	0.003	6.1	7.6	0.013	6.7	528	U	35.6	19.6	0.7	
A133	02/09/15	F	0.17	0.35	0.45	140	48	25	25	123	662	0.003	1.4	U	0.3	7.0	0.010	5.0	397	U	5.2	17.9	0.5	
A134	02/09/15	F	0.18	0.37	0.45	126	44	25	25	112	606	U	1.4	0.003	3.4	7.2	0.006	6.7	365	U	4.6	18.2	0.6	
A135	02/10/15	F	>1M	>1M	>1M	194	64	21	21	226	1210	0.107	1.6	0.003	6.4	7.7	0.017	5.1	701	U	61.4	20.5	0.8	
A136	02/09/15	F	0.20	0.40	0.70	160	52	26	25	135	742	U	1.6	0.003	2.4	7.1	0.017	7.6	442	U	10.2	18.8	0.7	
A137	02/09/15	F	0.11	0.22	0.32	113	38	25	26	105	547	U	1.7	0.005	4.3	7.2	0.012	6.3	344	U	4.3	19.4	0.4	
A138	02/09/15	F	0.14	0.28	0.35	60	24	33	33	66	338	U	2.2	U	4.8	7.2	0.004	0.6	235	U	1	19.8	0.6	
A139	02/09/15	F	0.10	0.21	0.35	22	12	38	37	35	168	0.008	2.4	U	6.7	7.0	0.007	0.4	162	U	0.7	20.6	1.0	
A140	02/10/15	F	0.14	0.28	0.33	54	16	23	25	48	248	U	1.3	0.005	2.7	7.0	0.006	0.9	181	U	1.4	17.9	0.6	
A141	02/12/15	F	>1M	>1M	>1M	77	23	17	17	52	326	0.009	1.2	0.006	1.6	6.8	0.015	12.2	219	9	4.6	17.4	1.4	
Total			37																					
Full			33																					
Partial			4																					
None			0																					

(1) Sample depth

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

(3) Depth to consolidated substrate

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

The analyte was detected in both the sample and the associated method blank

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

Mar-15

Site	Sample Date	Full(F), Partial(P), None(N), Reanalyzer (R) Units	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 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 Dissolv mg/l	Solids, Total Suspended (TSS) mg/l	Sulfate mg/l	Temperature (Field) DEG C	Turbidity NTU
A101	03/10/15	F	0.11	0.22	0.27	178	61	30	30	174	940	U	1.8	0.005	0.4	7.0	0.016	10.1	567	U	23.4	20.5	0.5
A102	03/10/15	P	0.09	0.18	0.24					27	196				1.9	6.6	0.009		U	1.4	20.6		
A103	03/10/15	P	0.05	0.11	0.15					24	172				2.3	6.5	0.009		U	1.2	20.4		
A104	03/10/15	F	>1M	>1M	>1M	198	57	25	25	142	904	0.054	1.7	0.005	5.6	7.7	0.026	9.1	553	U	42	23.8	0.8
A105	03/10/15	P	0.09	0.19	0.31					37	160				0.2	6.6	U		U	3	20.9		
A106	03/10/15	P	0.08	0.16	0.22					33	229				2.3	6.5	0.007		U	1.9	20.0		
A107		N																					
A108	03/10/15	P	0.06	0.12	0.18					38	177				3.4	6.4	0.009		U	U	25.5		
A109	03/11/15	F	0.17	0.34	0.43	38	10	17	17	22	157	U	1.0	U	2.7	6.7	0.010	1.2	113	U	1.1	23.6	0.5
A110	03/11/15	P	0.09	0.18	0.31					25	150				1.6	6.4	0.003		U	U	23.4		
A111	03/11/15	F	0.10	0.21	0.35	22	6	17	17	18	107	U	1.0	U	0.2	6.2	0.006	0.9	93	U	0.8	23.2	0.6
A112	03/11/15	F	0.13	0.26	0.43	28	9	16	16	18	121	U	1.0	U	2.8	6.5	0.007	1.2	98	U	0.8	23.9	0.6
A113	03/11/15	F	0.12	0.25	0.45	21	6	21	21	18	111	U	1.4	U	2.1	6.5	0.008	1.8	107	U	U	24.2	0.6
A114	03/11/15	F	0.14	0.28	0.41	21	6	19	19	18	108	U	1.2	U	2.2	6.3	0.008	1.1	95	U	U	24.2	0.5
A115	03/10/15	F	>1M	>1M	>1M	177	55	25	24	129	835	0.046	1.5	0.005	6.1	7.8	0.025	8.6	503	U	43.8	24.0	1.1
A117	03/12/15	F	0.11	0.22	0.39	59	16	19	18	36	255	U	1.0	0.003	U	6.5	0.013	6.1	168	U	2.8	22.1	0.7
A118	03/12/15	F	0.15	0.30	0.44	30	9	16	16	21	141	U	0.9	0.003	2.1	6.2	0.011	4.9	104	U	1.1	23.2	0.6
A119	03/12/15	F	0.13	0.26	0.37	30	8	18	18	17	122	U	1.1	U	1.9	6.4	0.010	3.4	107	U	U	25.0	0.5
A120	03/12/15	F	0.14	0.28	0.45	23	7	19	19	24	131	U	1.3	0.003	2.7	6.5	0.011	5.7	117	U	U	24.6	0.7
A122	03/12/15	F	0.12	0.23	0.38	96	25	23	24	47	325	U	1.2	0.004	U	6.7	0.013	9.3	233	U	3.2	24.0	0.9
A124	03/11/15	P	0.09	0.19	0.42					23	139				0.2	6.2	0.017		U	U	22.0		
A126	03/12/15	F	0.15	0.29	0.48	40	13	18	18	24	162	U	1.5	0.002	2.0	6.8	0.007	0.7	130	5	U	23.5	0.8
A127	03/12/15	F	0.13	0.26	0.42	21	9	23	23	26	134	U	1.5	U	0.2	6.4	0.009	6.3	130	U	U	24.1	0.7
A128	03/11/15	F	0.11	0.22	0.39	22	7	24	25	21	113	U	1.8	U	3.9	6.5	0.008	1.8	118	5	U	24.5	1.0
A129	03/10/15	F	>1M	>1M	>1M	187	64	26	26	196	1053	0.002	1.7	0.003	4.7	7.5	0.023	5.0	612	U	33.9	24.1	1.3
A130	03/09/15	F	0.15	0.30	0.41	91	33	25	24	87	465	U	1.2	0.006	0.3	7.6	0.008	4.3	280	U	1.9	21.2	0.7
A131	03/09/15	F	0.14	0.28	0.34	49	18	31	30	47	262	U	2.0	0.004	4.0	7.7	0.005	0.2	190	U	0.8	21.6	0.7
A132	03/10/15	F	>1M	>1M	>1M	197	68	27	27	218	1102	0.026	1.8	0.004	4.1	7.5	0.031	5.3	646	U	39.6	23.7	1.3
A133	03/09/15	F	0.10	0.20	0.40	137	45	26	27	112	940	0.013	1.6	0.005	1.6	6.9	0.018	2.8	367	U	3.8	21.3	1.3
A134	03/09/15	F	0.14	0.28	0.37	139	42	28	27	102	570	0.004	1.7	0.005	1.5	7.0	0.010	4.2	350	U	3.7	21.8	0.6
A135	03/10/15	F	>1M	>1M	>1M	233	71	27	28	228	1165	0.037	1.8	0.003	4.9	7.6	0.026	5.5	682	U	45.2	24.1	1.1
A136	03/09/15	F	0.10	0.21	0.40	149	47	29	29	114	636	0.003	1.8	0.004	1.7	7.1	0.015	3.4	405	U	5.6	23.3	1.3
A137	03/09/15	F	0.11	0.22	0.30	105	37	31	32	93	513	0.002	1.9	0.005	3.8	7.0	0.008	3.0	330	U	3.4	23.1	0.7
A138	03/09/15	F	0.12	0.24	0.28	59	22	0	0	54	306	U	2.5	0.005	5.7	7.3	0.009	1.1	233	U	1.1	22.7	1.0
A139	03/09/15	F	0.11	0.23	0.31	28	13	44	43	39	198	U	3.1	0.004	4.9	7.3	0.011	1.5	187	U	0.7	22.9	1.8
A140	03/10/15	P	0.09	0.19	0.24					50	286				0.2	6.7	U		U	1.3	21.3		
A141	03/12/15	F	>1M	>1M	>1M	64	19	19	19	40	279	U	1.2	0.003	1.5	6.6	0.014	8.2	180	6	2.5	24.1	0.8
Total			37																				
Full			28																				
Partial			8																				
None			1																				

(1) Sample depth

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

(3) Depth to consolidated substrate

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

The analyte was detected in both the sample and the associated method blank

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**

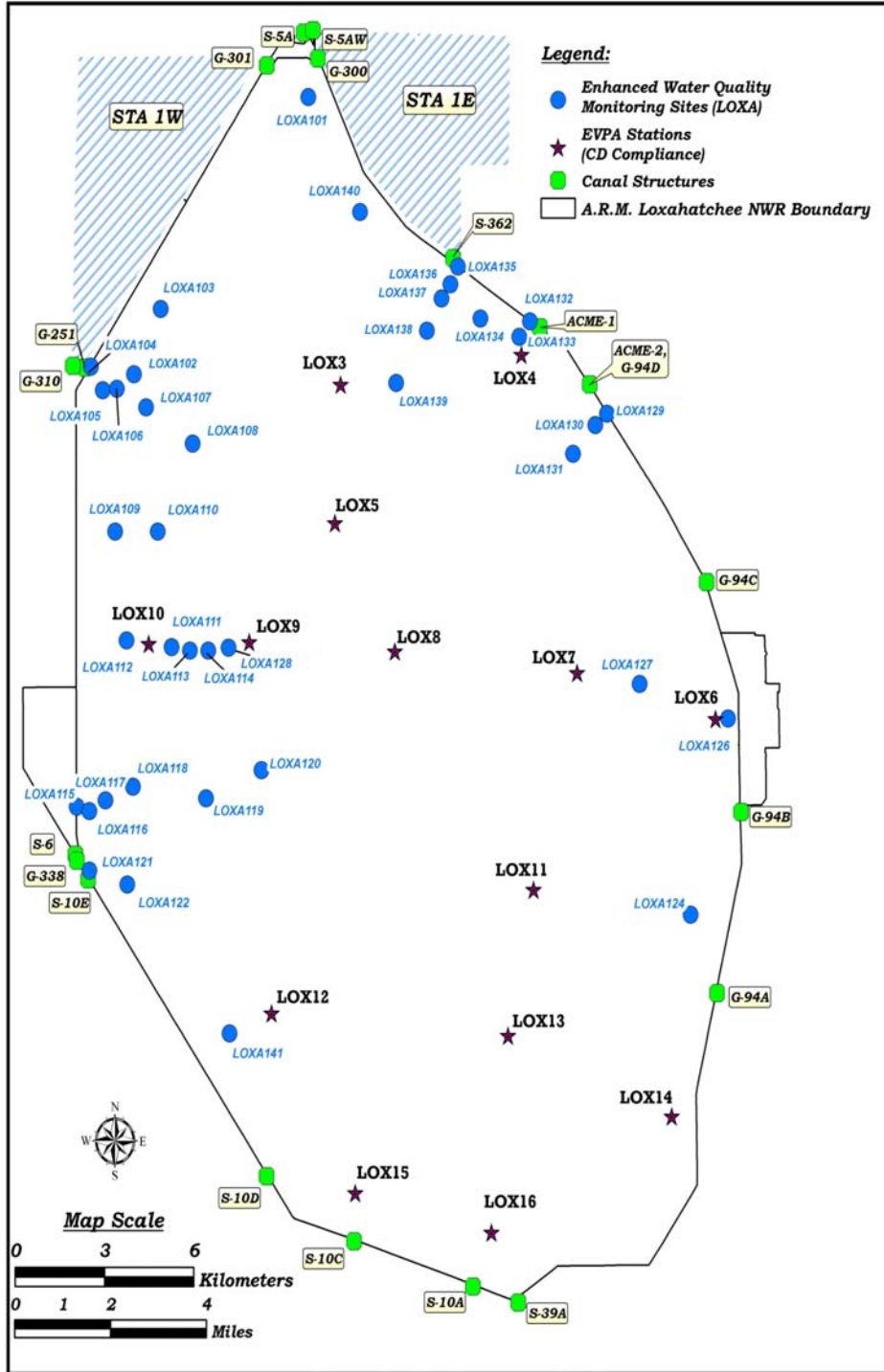
Parameter Information:

Parameter	Units	Analysis Method	MDL
Alkalinity as CaCO ₃ , Total	mg/L	310.1	5
Calcium Dissolved	mg/L	200.7	0.02 - 0.03
Carbon, Dissolved Organic	mg/L	415.1	0.1 - 0.3
Carbon, Total Organic	mg/L	415.1	0.1 - 0.3
Chloride	mg/L	300.0	0.1
Conductivity (field)	μMHOS/cm	120.1 (field)	-
Nitrate + Nitrite as Nitrogen	mg/L	300.0	0.003 - 0.009
Nitrogen, Total Kjeldahl (TKN)	mg/L	351.2	0.06 - 0.07
Ortho-phosphate as Phosphorus	mg/L	365.1	0.002 - 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	0.14
Solids, Total Dissolved (TDS)	mg/L	160.1	10
Solids, Total Suspended (TSS)	mg/L	160.2	5
Sulfate	mg/L	300.0	0.1
Temperature (Field)	DEG C	170.1	-
Turbidity	NTU	180.1	0.1

Note: Nitrate and Nitrite not analyzed after June 2006

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

Map of sites:



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

August 2006

Coordinates of sites:

Name	Latitude	Longitude	X_DMS*	Y_DMS*	X_DM**	Y_DM**
LOXA101	26.66739249	-80.36636475	80° 21' 58.91" W	26° 40' 2.61" N	80° 21.9818333' W	26° 40.0435' N
LOXA102	26.59598877	-80.42553769	80° 25' 31.94" W	26° 35' 45.56" N	80° 25.532333' W	26° 35.7593333333333' N
LOXA103	26.61285142	-80.41643631	80° 24' 59.17" W	26° 36' 46.27" N	80° 24.98616667' W	26° 36.7711666666667' N
LOXA104	26.59798188	-80.44004508	80° 26' 24.16" W	26° 35' 52.73" N	80° 26.4026667' W	26° 35.8788333333333' N
LOXA105	26.59189923	-80.43609407	80° 26' 9.94" W	26° 35' 30.84" N	80° 26.1656667' W	26° 35.514' N
LOXA106	26.59220622	-80.43128096	80° 25' 52.61" W	26° 35' 31.94" N	80° 25.876833' W	26° 35.5323333333333' N
LOXA107	26.58739046	-80.42144468	80° 25' 17.20" W	26° 35' 14.61" N	80° 25.286667' W	26° 35.2435' N
LOXA108	26.5779601	-80.40585344	80° 24' 21.07" W	26° 34' 40.66" N	80° 24.35116667' W	26° 34.6776666666667' N
LOXA109	26.55528865	-80.43205157	80° 25' 55.39" W	26° 33' 19.04" N	80° 25.92316667' W	26° 33.3173333333333' N
LOXA110	26.55523973	-80.41769154	80° 25' 3.69" W	26° 33' 18.86" N	80° 25.0615' W	26° 33.3143333333333' N
LOXA111	26.52533583	-80.41314705	80° 24' 47.33" W	26° 31' 31.21" N	80° 24.7888333' W	26° 31.5201666666667' N
LOXA112	26.52712473	-80.42837332	80° 25' 42.14" W	26° 31' 37.65" N	80° 25.702333' W	26° 31.6275' N
LOXA113	26.52442784	-80.40699875	80° 24' 25.20" W	26° 31' 27.94" N	80° 24.42' W	26° 31.4656666666667' N
LOXA114	26.52439258	-80.40083965	80° 24' 3.02" W	26° 31' 27.81" N	80° 24.050333' W	26° 31.4635' N
LOXA115	26.48422578	-80.44533675	80° 26' 43.21" W	26° 29' 3.21" N	80° 26.7201667' W	26° 29.0535' N
LOXA116	26.4830586	-80.441098	80° 26' 27.95" W	26° 28' 59.01" N	80° 26.4658333' W	26° 28.9835' N
LOXA117	26.48580427	-80.4356858	80° 26' 8.47" W	26° 29' 8.90" N	80° 26.14116667' W	26° 29.1483333333333' N
LOXA118	26.48928924	-80.42639091	80° 25' 35.01" W	26° 29' 21.44" N	80° 25.5835' W	26° 29.3573333333333' N
LOXA119	26.48621462	-80.40180845	80° 24' 6.51" W	26° 29' 10.37" N	80° 24.1085' W	26° 29.1728333333333' N
LOXA120	26.49341054	-80.38307987	80° 22' 59.09" W	26° 29' 36.28" N	80° 22.9848333' W	26° 29.6046666666667' N
LOXA121	26.46767673	-80.44113231	80° 26' 28.08" W	26° 28' 3.64" N	80° 26.468' W	26° 28.0606666666667' N
LOXA122	26.46404297	-80.42843367	80° 25' 42.36" W	26° 27' 50.55" N	80° 25.706' W	26° 27.8425' N
LOXA123	26.42675307	-80.40036372	80° 24' 1.31" W	26° 25' 36.31" N	80° 24.0218333' W	26° 25.6051666666667' N
LOXA124	26.45535397	-80.23875455	80° 14' 19.52" W	26° 27' 19.27" N	80° 14.325333' W	26° 27.3211666666667' N
LOXA126	26.50601148	-80.22585171	80° 13' 33.07" W	26° 30' 21.64" N	80° 13.55116667' W	26° 30.3606666666667' N
LOXA127	26.51513474	-80.25555976	80° 15' 20.02" W	26° 30' 54.49" N	80° 15.3336667' W	26° 30.9081666666667' N
LOXA128	26.52516286	-80.3940121	80° 23' 38.44" W	26° 31' 30.59" N	80° 23.6406667' W	26° 31.5098333333333' N
LOXA129	26.58500726	-80.26608256	80° 15' 57.90" W	26° 35' 6.03" N	80° 15.965' W	26° 35.1005' N
LOXA130	26.58211881	-80.27005531	80° 16' 12.20" W	26° 34' 55.63" N	80° 16.20333' W	26° 34.9271666666667' N
LOXA131	26.57474791	-80.27764653	80° 16' 39.53" W	26° 34' 29.09" N	80° 16.6588333' W	26° 34.4848333333333' N
LOXA132	26.60900561	-80.29189939	80° 17' 30.84" W	26° 36' 32.42" N	80° 17.514' W	26° 36.5403333333333' N
LOXA133	26.6050896	-80.29557491	80° 17' 44.07" W	26° 36' 18.32" N	80° 17.7345' W	26° 36.3053333333333' N
LOXA134	26.60985664	-80.30860325	80° 18' 30.97" W	26° 36' 35.48" N	80° 18.51616667' W	26° 36.5913333333333' N
LOXA135	26.62335538	-80.31612276	80° 18' 58.04" W	26° 37' 24.08" N	80° 18.967333' W	26° 37.4013333333333' N
LOXA136	26.61879302	-80.31866688	80° 19' 7.20" W	26° 37' 7.65" N	80° 19.12' W	26° 37.1275' N
LOXA137	26.61510337	-80.32170327	80° 19' 18.13" W	26° 36' 54.37" N	80° 19.30216667' W	26° 36.9061666666667' N
LOXA138	26.60681693	-80.32666537	80° 19' 36.00" W	26° 36' 24.54" N	80° 19.6' W	26° 36.409' N
LOXA139	26.59332525	-80.33715389	80° 20' 13.75" W	26° 35' 35.97" N	80° 20.22916667' W	26° 35.5995' N
LOXA140	26.63760323	-80.34909432	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