

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77847 MACROPHYTE ID: 10612 LATITUDE: 30.32071
COUNTY: Leon STORET #: 21071 LONGITUDE: -84.38254
DATE: 7/25/2017 TIME: 1130 SAMPLING AGENCY: AEQA/FDEP
SITE NAME: Unnamed Small Lake WBID: 889
FIELD ID/NAME: ANF Unnamed Small Lake Ref LAKE SIZE: 8.3 RQ: 2017-07-24-22
WATERSHED / LAKESIDE FEATURES (NW1SL2065) acres

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS):										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)											
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)	LDI:		Land Use Source & Year:											
<u>90%</u>	<u>10%</u>							<u>1.0</u>													
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy							Artificially Impounded														
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy							☐ Yes ☒ No														
STORMWATER INPUTS		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation			Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place			Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place			Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place										
<u>19</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)			Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)			Many structures, roads or other human disturbance visible (50%-70% lakeside affected)			Highly developed or disturbed (>70% of lakeside affected)										
<u>18</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer			89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer			50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer			< 29% of shoreline with >18m buffer										
<u>19</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No <u>to high</u> Water Level ☐ Low ☒ Normal ☐ High							Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Top: _____ Mid-Depth: _____ Bottom: _____ Meter ID: _____							Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____							Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green SECCHI (M) _____ Total Station Depth (M) _____ VOB _____									
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot #: _____ Exp. Date: _____ Algal Bloom/Algal ID Sample Taken? Yes ☐ No ☒ Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know							Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☒ Anaerobic <u>Ang. in places</u>									
Weather Conditions: <u>sun, hot, breeze</u>							Additional Notes: <u>globby Oscillatoria type algae, no field measurements.</u>									
SAMPLING TEAM: <u>A.O'Neal S. Panek</u>							SIGNATURE: <u>[Signature]</u>					DATE: <u>7/25/17</u>				

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Unnamed Small Lake</u>		County: <u>Leop</u>		Date: <u>7/25/17</u>							
Analyst: <u>A. O'Neal, S. Panek</u>		Signature: <u>[Signature]</u>		STORET: <u>21071</u>							
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.				Lake units sampled (circle one group): 1, 4, 7, 10 2, 5, 8, 11 3, 6, 9, 12							
It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa.											
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
Acer rubrum						Habenaria repens					
Alternanthera philoxeroides						Hydrilla verticillata					
Andropogon sp.						Hydrocotyle sp.					
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma					
Baccharis sp.						*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides					
Bacopa monnieri						*Hypericum myrtifolium					
Bidens laevis						Ilex cassine					
Bidens mitis						Ipomoea aquatica					
Blechnum serrulatum						Ipomoea sagittata					
Boehmeria cylindrica						Itea virginica					
Brasenia schreberi						Juncus effusus					
Cabomba caroliniana						*Juncus marginatus					
Casuarina equisetifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis						*Juncus scirpoides					
Ceratophyllum demersum						Lachnanthes caroliniana					
Chara sp.						Leersia hexandra					
Cladium jamaicense						Landoltia punctata (Spirodela punctata)					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (Eubotrys racemosa)					
*Commelina						Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua					
Cyperus articulatus						*Ludwigia arcuata					
Cyperus haspan						*Ludwigia leptocarpa					
*Cyperus lecontei						*Ludwigia linearis					
*Cyperus polystachyos						*Ludwigia octovalvis					
*Cyperus odoratus						*Ludwigia peruviana					
*Cyperus surinamensis						*Ludwigia repens					
Cyrilla racemiflora						*Ludwigia <u>suffruticosa</u>					
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana					
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						Melaleuca quinquenervia					
Eclipta prostrata (E. alba)						Micranthemum glomeratum					
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes						Mikania scandens					
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis <u>elongata?</u>						Myrica cerifera					
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

frutus - mostly coom and some globby algae; U. gibba

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET[illegible]

SITE NAME: Unnamed Small Lake DATE: 7/25/17 TIME 1130 (military) EST CST DEPTH^A: ft m FIELD ID:

SAMPLING TEAM MEMBERS	WQ MEASUREMENTS	DOCUMENTATION	SAMPLE COLLECTION	PRESERVATION	PRESERVATION CHECK
Ashley O'Neal		X	X	X	X
Sarah Panek			X	X	

SAMPLING EQUIPMENT	
☒ Sample Container	☐ Tubing type: <u> </u>
☐ Pole	☐ Other: <u> </u>
☐ Pump ID#: <u> </u>	☐ Other: <u> </u>
WATER QUALITY MEASUREMENTS	
Instrument ID: <u> </u>	
COLLECTION MODE	
☐ Wading	☒ Via Boat
☐ Diving	☐ Canoe
☐ From Shore	☐ Electric Motor
☐ Other: <u> </u>	☐ Gasoline Motor

Parameter Suite	Parameter(s)/Method	Matrix Code [*]	Preservation ^{**}	Preservative Lot #	pH Check	# Bottles ***
Preserved Nutrients	☒ TKN ☒ TP ☒ NO ₃ ☒ NH ₃ ☐ TOC ☐ Total N ☐ Other: <u> </u>	SW	☒ Ice ☒ H ₂ SO ₄	7163030	☒ <2	1
Filtered Nutrients	☒ OP ☐ Other: <u> </u>	SW	☒ Ice ☒ .45 um Filter			1
Unpreserved Nutrients	☐ NO ₂ ☐ NO ₃ ☐ SO ₄ ☐ Other: <u> </u>	W	☐ Ice			1
Physical/Aggregate Properties	☐ TDS ☐ TSS ☐ TS ☐ Turbidity ☒ Alk ☒ Color ☐ Other: <u> </u>	SW	☒ Ice			1
Chlorophyll	☒ CHL-PPTN-W	SW	☒ Ice			1
BOD	☐ BOD-INHB ☐ BOD-UNIN	W	☐ Ice			
Microbiology	MF: ☐ E coli ☐ T Coli ☐ F Coli ☐ Enteroc ☐ F Strep	W	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC ☐ MI-FW-QLBR ☐ MI-FW-QNNC ☐ MI-MN-QNNC	W	☐ Formalin			
Phytoplankton	☒ PKD-QN-C ☒ DTY-QN-C	SW	☐ Lugol's			1
Periphyton	☐ PRN-QL-C ☐ DTM-QL-C ☐ PRN-QN-C ☐ DTM-QN-C	W	☐ Formalin			
AGP	☐ AA-AGP ☐ AA-LIM-NUT	W	☐ Ice			
Metals	☒ W-ICP ☐ W-FIAS ☒ W-ICPMS ☐ W-ICP-Tr	SW	☒ HNO ₃	7086060	☒ <2	1
Filtered Metals	☐ W-ICP-F ☐ W-FIAS-F ☐ W-ICPMS-F ☐ W-ICP-Tr-F	W	☐ HNO ₃ ☐ .45 um Filter		☐ <2	
Mercury	☐ W-HG-AF	W				
BaseNeutral / Acid Extractable	☐ W-BNA ☐ W-AE ☐ W-BN ☐ W-PAH ☐ W-FL-PRO ☐ W ☐ Other: <u> </u>	W	☐ Ice ☐ H ₂ SO ₄		☐ <2	
Pesticides	☐ W-PEST-CL ☐ W-PCB ☐ W-PEST-NP ☐ W-PSCL-PCB ☐ W-NP-AA-SF ☐ W-PC-AA-SF ☐ W-PSHRB-NP ☐ W-SLFN-UREA ☐ W-SULFN-LC ☐ Other: <u> </u> ☐ W-ACIDHERB ☐ W-CARB	W	☐ Ice ☐ H ₂ SO ₄ ☐ Ice ☐ MCAA			
Purgeables	☐ W-VOC-MS ☐ W-VOC-MS-A	W	☐ Ice ☐ HCl			
Bioassay	Specify Test: <u> </u>	W	☐ Ice			
OTHER		W	☐ Other: <u> </u>			

Notes:

Contains 1:1 Sulfuric Acid
Lot No.: SA7163030
Expires: 06/12/18
See Safety Data Sheet (SDS)

Contains 1:1 Nitric Acid
Lot No.: NA-7036060
EXP: 03/27/18
Warning!
See SDS

Did not take any field measurements.
Reference lake, difficult to access.
Sunny, partly cloudy, hot.
RQ-2017-07-24-22

Use one line (as supplied by the laboratory) containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

^AEnter "S" for collected at a depth less than or equal to 1 foot

^{*}Matrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other:

^{**}PRESERVATIVES: 1 ml added unless otherwise noted

^{***}Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)

DEP Bureau of Laboratories Water Sample Collection Record

(Use with FDEP SOP-001/01 Form FD 9000-3 Physical/Chemical Characterization Field Sheet)

Customer: BSSP

Project ID: LAKESREF

Requester: Sarah Panak

Collected By:

Field Report Prepared By: SADA11 DAN-14

Sampling Agency: AEQA / FDEP

Location	Field ID	Latitude	Longitude	Salinity (ppt)	Temp (C)	pH	Diss. Oxygen	Sample Depth	Sp. Conductance (umho/cm)	Total Res. Chlorine (mg/L)	Bottle Group(s)
Unamed Small Lake, Leon. Co., ANF	ANF Unamed Small Lake Ref	30.32071 N	84.38254 W	☒ dd ☐ dms	☒ dd ☐ dms						
STORET #	21071										
Location											
Field ID											
STORET #											
Latitude		☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)	pH	Diss. Oxygen	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	Total Res. Chlorine (mg/L)
Location											
Field ID											
STORET #											
Latitude		☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)	pH	Diss. Oxygen	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)	Total Res. Chlorine (mg/L)
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Field ID											
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Location											
Field ID											
STORET #											
Latitude		☐ dd ☐ dms	Longitude	<							

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Wheat C Bank	7/25/17 1415	Hand deliver		ABD	7-25-17 1415