

SAMPLE ID: 77841

COUNTY: Leon

DATE: 7/20/17

SITE NAME: Moore Lake

FIELD ID/NAME: Moore Ref

MACROPHYTE ID: 10592

STORET #: LEO139NL

TIME: 1210

LATITUDE: 30°23'32.352

LONGITUDE: -84°24'12.546

SAMPLING AGENCY: LABS/Biology

WBID: 889A

LAKE SIZE: 70.5 acres

RQ: 2017-07-17-39

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) :

Forest/Natural

Silviculture

Field/Pasture

Agricultural

Residential

Commercial

Industrial

Other (Specify)

100%

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)

LDI:

Land Use Source & Year:

Local Watershed Erosion (select one) : ☒ None ☐ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy

Artificially Impounded ☐ 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

19

20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

LAKE SIDE 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)

19

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

19

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 # 547163030 Exp. Date: 6/12/18

Alkalinity Sample Taken? ☐ Yes ☐ No

Water Level ☐ Low ☒ Normal ☐ High

Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other

Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☒ Tannic ☐ Green

SECCHI (M) VOB

Total Station Depth (M) 2.7m

VOB ☒

Meter Readings:

Depth (M)

Temp. (°C)

pH (SU)

D.O. (MG/L)

D.O. Sat. (%)

Cond. (UMHO/CM)

Salinity (PPT)

Top:

0.3

31.4

4.44

5.53

75.0

16.1

Mid-Depth:

1.3

30.1

4.44

5.75

76.2

16.1

Bottom:

2.6

29.5

4.6

4.7

61.4

16.8

Meter ID:

Sediment Type: (may check more than one)

☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated

☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify):

Sample Taken? ☐ Yes ☒ No

Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify):

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

Abundance:

Absent

Rare

Common

Abundant

Periphyton

Nuisance Plants

Submersed Plants

Exotic Apple Snails

☒

☒

Additional Notes:

Weather Conditions :

Hot 92°F Mostly Sunny

SAMPLING TEAM: Blake Spenser + Rachael Dragon

SIGNATURE:

DATE: 7/20/17

Form FD9000-27 Lake Vegetation Index Data Sheet (04-21-11)

Waterbody: Moose Lake

County: Leon

Date: 7/20/17

Analyst: Blake Spencer

Signature: _____

STORET: LEO139NL

Except where noted as "sp." species level identification required. *Genera that may require lab verification*
Plants in bold= ELEPPC invasive exotic.

Lake units sampled
(circle one group):

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.

1, 4, 7, 10 2, 5, 8, 11
3, 6, 9, 12

SPECIES	1 ✓	4 2	7 3	10 4	Collected? (√)
Acer rubrum					
Alternanthera philoxeroides					
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica					
Brasenia schreberi					
Cabomba caroliniana				X	
Casuarina equisetifolia					
Centella asiatica					
Cephalanthus occidentalis	X	X	X	X	
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla	X				
Colocasia esculenta					
*Commelina					
Crinum americanum					
*Cyperus alternifolius (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus					
*Cyperus surinamensis					
Cyrilla racemiflora	X	X	X	X	
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii					
*Eleocharis					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus					
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.					
Hygrophila polysperma					
*Hypericum fasciculatum	X	X	X	X	
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes carolina					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidambar styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
*Ludwigia peruviana					
*Ludwigia repens					
*Ludwigia					
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis	X	X	X	X	
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera					

[illegible]

SAMPLING EQUIPMENT	
☒ Sample Container	☐ Tubing type: _____
☐ Pole	☐ Other _____
☐ Pump ID#: _____	☐ Other _____
WATER QUALITY MEASUREMENTS	
Instrument ID: <u>4 YSL 1483</u>	
COLLECTION MODE	
<u>Via Boat</u>	
☐ Wading	☐ Canoe
☐ Diving	☒ Electric Motor
☐ From Shore	☐ Gasoline Motor
☐ Other	

Parameter Suite	Parameter(s)/Method	Matrix Code*	Preservation**	Preservative Lot #	pH Check	# Bottles ...
Preserved Nutrients	☒ TKN ☒ TP ☒ NOx ☒ NH3 ☐ TOC ☐ Total N ☐ Other: _____	SW	☒ Ice ☒ H ₂ SO ₄	See Below	☒ <2	1
Filtered Nutrients	☒ OP ☐ Other: _____	SW	☒ Ice ☒ .45 um Filter			1
Unpreserved Nutrients	☒ NO ₂ ☒ NO ₃ ☒ SO ₄ ☐ Other: _____	SW	☒ Ice			1
Physical/Aggregate Properties	☐ TDS ☐ TSS ☐ TS ☐ Turbidity ☒ Alk ☒ Color ☐ Other: _____	W	☐ Ice			
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	83041		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	See Below	☒ <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				
Base/Neutral / Acid Extractable	☐ W-BNA ☐ W-AE ☐ W-BN ☐ W-PAH ☐ W-FL-PRO ☐ W ☐ Other: _____	W	☐ Ice ☐ H ₂ SO ₄		☐ <2	
Pesticides	☐ W-PEST-CL ☐ W-PCB ☐ W-PEST-NP ☐ W-PSCL-PCB	W	☐ Ice			
	☐ W-NP-AA-SF ☐ W-PC-AA-SF ☐ W-PSHRB-NP	W	☐ Ice			
	☐ W-SLFN-UREA ☐ W-SULFN-LC ☐ Other: _____	W	☐ Ice			
	☐ W-ACIDHERB	W	☐ Ice ☐ H ₂ SO ₄			
	☐ W-CARB	W	☐ Ice ☐ MCAA			
Purgeables	☐ W-VOC-MS ☐ W-VOC-MS-A	W	☐ Ice			
Bioassay	Specify Test: _____	W	☐ Ice			
OTHER		W	☐ Other: _____			

Notes:

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

Caution! 1:1 Sulfuric Acid
Sulfuric acid exists in both liquid form and as fumes. It is extremely corrosive and can cause severe burns if it comes in contact with skin or eyes. It is only additive or in a solution. It is not a pure substance. When concentrated sulfuric acid is added to water, it will produce heat. This heat can cause the mixture to boil and splash. Always add acid to water, never water to acid. Remove 2 cm to keep air and prevent splashing. If you are wearing gloves, remove them immediately after handling. If you are wearing eye protection, remove it immediately after handling. If you are wearing a respirator, remove it immediately after handling. If you are wearing a full-body suit, remove it immediately after handling. If you are wearing a hood, remove it immediately after handling. If you are wearing a face shield, remove it immediately after handling. If you are wearing a full-body suit and a hood, remove it immediately after handling. If you are wearing a full-body suit and a face shield, remove it immediately after handling. If you are wearing a full-body suit and a hood and a face shield, remove it immediately after handling.

Nitric Acid
NA - 7086060
EXP: 03/27/18
Warning!

Use one line for each sample. (If you are using the laboratory containers, use separate sheet for field or laboratory duplicate or blank or different water depth.)

^Enter "S" for surface if 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.)

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

