



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Location/STORET Station Name: Lake Lotus @ Center

Date: 5/22/17

STORET # G2CE009315

WBID: 3004M

Latitude: 28.6483611

County: Seminole RQ - 2017-02-06-54

PRG ID: 21FCEN

Longitude: -81.4218888

Receiving Body of Water:

Field ID: G2CE009315

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Leif Bump						X		X	X
Katie Williams					X	X			

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☒ Syringe
☐ Dipper	☐ Other
Equipment ID	

Collection Method	
☐ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☒ Gasoline Motor

Water Level:		Matrix:	
Dry / Pooled / <u>Low</u> / Normal / High / Flooded		<u>Fresh</u> / Marine / DI	

Meter ID# <u>Betty 67</u>		Photos: Yes / No		Tide Falling: Yes / No / <u>NA</u>						
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>11:25</u>	<u>0.3</u>	<u>1.2</u>	<u>10.1</u>	<u>133</u>	<u>8.1</u>	<u>0.13</u>	<u>0.5</u>	<u>267</u>	<u>29.5</u>
CEN										

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: 77669 RPS-ID: n/a Macrophyte-ID: 10499 LIMS#: 1900674

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4			☒ <2
Metals	☒ W-ICPMS ☒ W-ICP <u>KW</u>	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains
1:1
Sulfuric Acid
SA-7093010
EXP: 04/03/18
Warning!
See SDS

Notes:

Lake Lotus @ Center

G2CE0015

Field ID ↑

STORET ↓

RQ-2017-02-06-54

Date: 05/22/17



G2CE0015

Signature:

KWilliams

Date:

5/22/17

Field Parameters Entered into LIMS: KMW 6/9/17
(Initials/Date)

Field Parameters QC in LIMS: _____
(Initials/Date)

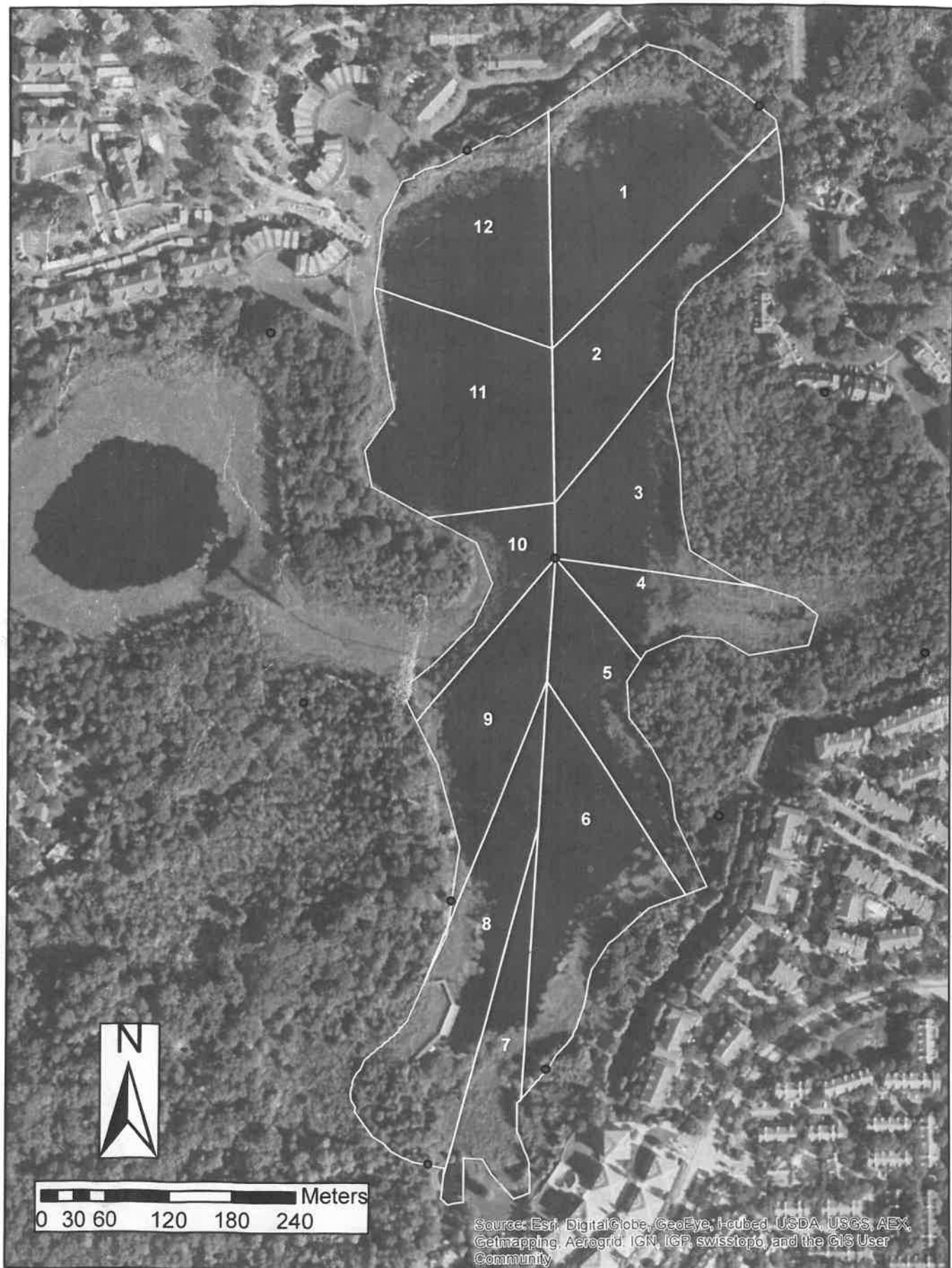
Date Migrated to STORET: _____
(Initials/Date)

Field Sheets Scanned/Saved: _____
(Initials/Date)

Waterbody: <u>Lake Lotus</u>					County: <u>Seminole</u>					Date: <u>5/22/17</u>				
Analyst: <u>KMW, LGB</u>					Signature: <u>KW</u>					STORET:				
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 <u>3, 6, 9, 12</u>				
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	3 1	6 2	9 3	12 4	Collected? (✓)	SPECIES	3 1	6 2	9 3	12 4	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 carolina								
Chara sp.						Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spirodela punctata)								
Cliftonia monophylla						Lemna sp.								
Colocasia esculenta		/	/	/		Leucothoe racemosa (Eubotrys racemosa)								
*Commelina		/	/	/		Limnobium 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 native	/	/	/	/				
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						Myrica cerifera								
Eleocharis cellulosa														
Eleocharis equisetoides														
Eleocharis interstincta														
*Eriocaulon compressum														
*Eriocaulon decangulare														
Eupatorium capillifolium														
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														

Thick buffer of Nymphaea & Hydrilla preventing good access of shoreline plants.

Lake Lotus (Seminole County)



DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID:	MACROPHYTE ID:	LATITUDE:
COUNTY: <u>Seminole</u>	STORET #: <u>62CE0015</u>	LONGITUDE:
DATE: <u>5/22/17</u>	TIME:	SAMPLING AGENCY:
SITE NAME: <u>Lake Lotus @ Center</u>	WBID: <u>3004M</u>	LAKE SIZE: <u>Small</u> RQ: <u>2017-02-06-54</u>
FIELD ID/NAME: <u>62CE0015</u>		

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>10</u> Silviculture <u>0</u> Field/Pasture <u>0</u> Agricultural <u>0</u> Residential <u>90</u> Commercial <u>0</u> Industrial <u>0</u> Other (Specify) <u>0</u>					LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>0</u> Land Use Source & Year:				
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy					Artificially Impounded ☐ Yes ☒ No				
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy									
STORMWATER INPUTS <u>15</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6		Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1	
LAKESIDE ALTERATIONS <u>13</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11		Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6		Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
BUFFER ZONE <u>13</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6		< 29% of shoreline with >18m buffer 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 Water Level ☒ Low ☐ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter Readings: Top: <u>0.3</u> <u>29.5</u> <u>8.1</u> <u>10.1</u> <u>133</u> <u>267</u> <u>0.13</u> Mid-Depth: _____ Bottom: _____						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: <u>Betty 67</u>						Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☒ Tannic ☐ Green					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Sand/Silt ☐ Organic smooth (muck) Sample Taken? ☐ Yes ☐ No ☒ Vegetated ☐ Other (Specify): _____						SECCHI (M) <u>0.5</u> Total Station Depth (M) <u>1.2</u> VOB ☐					
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: <u>hot, sunny</u>											
SAMPLING TEAM: <u>LOB, KMW</u>						SIGNATURE: <u>[Signature]</u>			DATE: <u>5/22/17</u>		