



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: Lake Blue Cove @ 150m SW of Center

Date: 05/31/2016
(mm/dd/yyyy)

STORET Station ID: G4CE0022

Latitude: _____
(Decimal Degrees)

WBID: 1329 V RQ - 2016-05-09-56 ORG ID: 2IFLCEN

Longitude: _____
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: G4CE0022

County: Sumter

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Linger									
Mike Danner									

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: Dry / Low / <u>Normal</u> / High / Flooded										Matrix: <u>Fresh</u> / Marine / DI	
Meter ID#			Photos: Yes / <u>No</u>			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°)	
EST	12:55	0.3	9.4	12.0	159	9.7	0.05	1.6	110	30.0	
CEN		8.0		4.74 0.4	4	7.2	0.06		132	17.1	

Biological Samples Collected: None HA SCI LVS RPS <u>LVI</u> Other									
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				☐ Ice ☐ HNO3			☐ <2	
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice				
Chlorophyll	☒ CHLSUITE-W				☒ Ice				
BOD	☐ BOD-UNIN				☐ Ice				
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice				
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice				
Macroinvertebrates	☐ ME-FW-QLDC				☐ Formalin				
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR				☐ Ice				
Periphyton	☐ ALGAE-ID				☐ Ice				
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R				☐ Ice				
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Other				

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Notes:
1,290/12 = 108
* Depth limited by 8.0m cord

Lake Blue cove @ 150m
SW of Center
Date: 05/31/16
RQ-2016-05-09-56
G4CE0022
Field ID
STORET
G4CE0022

Signature: [Signature]

Date: 5/31/16

Field Parameters Entered into LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date)
Field Parameters QC in LIMS: _____ (Initials/Date)
Field Sheets Scanned/Saved: _____ (Initials/Date)

SAMPLE ID: 76259 MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Sumter STORET #: G4CE0022 LONGITUDE: _____
 DATE: 5/31/16 TIME: 1200 SAMPLING AGENCY: FDEP CE Roc
 SITE NAME: Lake Blue Core @ 150m SW of Center WBID: 1329V
 FIELD ID/NAME: G4CE0022 LAKE SIZE: Med RQ: 2016-05-09-56

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>85</u> Silviculture <u>0</u> Field/Pasture <u>5</u> Agricultural <u>0</u> Residential <u>85</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 Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						Artificially Impounded ☐ Yes ☒ No															
STORMWATER INPUTS <u>10</u>		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													
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS <u>6</u>		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)													
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE <u>10</u>		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													
		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 Water Level ☒ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____			
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>30.0</u> <u>9.7</u> <u>12.0</u> <u>159</u> <u>110</u> <u>0.05</u> Mid-Depth: _____ Bottom: <u>8.0</u> <u>17.1</u> <u>7.2</u> <u>0.4</u> <u>4</u> <u>132</u> <u>0.06</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____			
Water 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) ☒ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								SECCHI (M) <u>1.6</u> Total Station Depth (M) <u>9.4</u> VOB ☐			
Sample Taken? ☐ Yes ☒ No Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic								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 ☒ Don't Know 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 : 90's clear

SAMPLING TEAM: Mike Linger, Mike Drennan

SIGNATURE: [Signature]

DATE: 5/31/16

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

Waterbody: Lake Blue Cove @ 150m SW of CenterCounty: SumterDate: 5/31/16Analyst: Mike Linger, Mike DrannanSignature: [Signature]STORET: G4CE0022Except 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):

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	7	10	Collected? (✓)	SPECIES	1	4	7	10	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					
Cyrtilla 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						<i>Vitis</i>	/	/	/	/	
Eleocharis equisetoides						<i>Carex ? gigantea</i>	/	/	/	/	
Eleocharis interstincta						<i>Calycarpum americanum</i>	/	/	/	/	
*Eriocaulon compressum						<i>Bidens alba</i>	/	/	/	/	
*Eriocaulon decangulare						<i>Lantana cana</i>	/	/	/	/	
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea	/										
Gordonia lasianthus											

mke

[illegible]

Lake Blue Cove 1329V

