



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

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March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Lake Joanna @ Center

Date: 08/14/2017
(mm/dd/yyyy)

STORET # G1CE0066

WBID: 2821 B

Latitude: 28.84195

(mm/dd/yyyy)

County: Lake

RQ - 2017-08-14-48

ORG ID: 21FLCEN

Longitude: -81.64482

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1CE0066

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Terry Riondan					X		X	X	☒ Sample Container	☐ Van Dorn	☐ Pole	
Natalie Ayala				X		X			☐ 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 / Pooled / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI				Tide Falling: Yes / No / <u>NA</u>				
Meter ID# <u>BOOP NON</u>				Photos: <u>Yes</u> / No								
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	1321	0.3	3.5	8.0	108	8.3	0.1	2.0m	245	31.4		
CEN	<u>13 NA</u>	3.0		7.4	99	7.5	0.1		227	30.4		

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

SBO ID Numbers: SBO ID: 77934 RPS ID: 10722 LIMS#: 1921356

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	7093010	4/18	☒ <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			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-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	☐ Ice			
	☐ 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 Joanna @ Center

G1CE0066

Field ID ↑

STORET ↓

G1CE0066

Signature: [Signature]

Date: 8/14/17

Field Parameters Entered into LIMS: NA 9/2/17

Field Parameters QC in LIMS: 7/9/27/17

Date Migrated to STORET: 10/16/17

Field Sheets Scanned/Saved: [Signature]

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77934 MACROPHYTE ID: _____ LATITUDE: _____
COUNTY: Lake STORET #: GICE0066 LONGITUDE: _____
DATE: 8-14-17 TIME: 1321 SAMPLING AGENCY: 21 FL CEN
SITE NAME: Lake Joanna WBID: 28213
FIELD ID/NAME: GICE0066 LAKE SIZE: _____ RQ: 2017-08-14-48

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☒ Commercial ☐ Industrial ☐ Other (Specify) ☐						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>1.02</u>											
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy						Artificially Impounded ☐ Yes ☒ No											
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						Land Use Source & Year:											
STORMWATER INPUTS <u>8</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>5</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>3</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>31.4</u> <u>8.3</u> <u>8.0</u> <u>108</u> <u>245</u> <u>0.1</u> Mid-Depth: _____ Bottom: <u>3.0</u> <u>30.4</u> <u>7.5</u> <u>7.4</u> <u>99</u> <u>227</u> <u>0.1</u> 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): _____						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 Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know						Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☐ ☐ ☒ ☐					
Weather Conditions : <u>High 90's windy clear</u>						Additional Notes:					
SAMPLING TEAM: <u>Terry Kiordan/Natalie Ayala</u>						SIGNATURE: <u>[Signature]</u>					
DATE: <u>8-14-17</u>											

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Johanna</u>					County: <u>Ony Lake</u>					Date: <u>08/14/17</u>				
Analyst: <u>Terry Piordan/Natalie Ayala</u>					Signature: <u>Natalie Ayala</u>					STORET: <u>GICE0066</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 <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	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)			
Acer rubrum	/	/				Fraxinus								
Alternanthera philoxeroides			/	/		Fuirena scirpoides	C	D	D	/				
Amaranthus australis						Gordonia lasianthus								
Andropogon sp.	/					Habenaria repens								
Azolla filiculoides (A. caroliniana)						Hibiscus coccineus								
Baccharis sp.				/		Hibiscus grandiflora								
Bacopa caroliniana	/	/	/	/		Hydrilla verticillata								
Bacopa monnieri						Hydrocotyle sp.	/	/	/	/				
Bidens alba						Hygrophila polysperma								
Bidens laevis						Hymenocallis sp.								
Bidens mitis						*Hypericum fasciculatum	/	/						
Blechnum serrulatum						*Hypericum hypericoides								
Boehmeria cylindrica						*Hypericum myrtifolium								
Brasenia schreberi						Ilex cassine			/					
Cabomba caroliniana						Ipomoea aquatica								
Canna						Ipomoea sagittata								
Centella asiatica						Itea virginica								
Cephalanthus occidentalis	/		/	/		Juncus effusus								
Ceratophyllum demersum						*Juncus marginatus	/							
Chara sp.			/			*Juncus megacephalus	/							
Cicuta maculata						Juncus repens								
Cinnamomum camphora						*Juncus scirpoides								
Cladium jamaicense						Lachnanthes caroliniana	/	/	/	/				
Colocasia esculenta						Leersia hexandra		/			6 o/c			
*Commelina						Landoltia punctata (Spirodela punctata)								
Crinum americanum						Lemna sp.								
* Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)								
Cyperus articulatus						Limnium spongia								
Cyperus haspan	/	/	/	12A		Limnophila sessiliflora								
*Cyperus lecontei	/	/	/	12B		Liquidambar styraciflua								
*Cyperus polystachyos	/		/	56K		*Ludwigia arcuata								
*Cyperus odoratus			/	OK		*Ludwigia grandiflora								
*Cyperus surinamensis						*Ludwigia hexapetala								
Cyrilla racemiflora						*Ludwigia leptocarpa								
Decodon verticillatus						Ludwigia (native)								
Diodia virginiana	/	/	/			*Ludwigia octovalvis				/				
*Echinochloa crus-galli						*Ludwigia peruviana	/	/	/	/				
*Echinochloa muricatum						*Ludwigia repens								
Echinochloa walteri						Ludwigia suffruticosa		/		/				
Eclipta prostrata (E. alba)						Luziola fluitans (Hydrochloa carolinensis)								
Eichhornia crassipes						Magnolia virginiana			/	/				
*Eleocharis baldwinii	/					Mayaca fluviatilis								
Eleocharis cellulosa						Melaleuca quinquenervia								
*Eleocharis elongata		/	/	/		Micranthemum glomeratum								
Eleocharis equisetoides						Micranthemum umbrosum								
Eleocharis interstincta						Mikania scandens			/					
Eleocharis submersed viviparous	/	/				Mimosa pigra								
*Eriocaulon compressum						Myrica cerifera	/	/		/				
*Eriocaulon decangulare														
Eupatorium capillifolium	/		/											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Johanna						Date: 08/14/17					
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana				✓	
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum			✓	✓	
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.		✓				Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.	✓			✓		Scirpus cyperinus					
Nymphaea mexicana						*Sesbania					
Nymphaea odorata	✓	✓	✓	✓		Solidago sp.					
Nymphoides aquatica		✓	✓	✓		Sparganium americanum					
Nyssa sylvatica var. biflora	✓		✓			Spartina bakeri	✓				
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.		✓	✓	✓	
Osmunda regalis						Thalia geniculata					
Panicum hemitomon		✓	✓	✓		Thelypteris interrupta					
Panicum repens		✓	✓	✓		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.			✓	✓	
Paspalum urvillei				✓		Urochloa mutica (Brachiaria mutica)		✓		✓	
Peltandra sp.						*Utricularia gibba (U. biflora)	✓	✓	✓	✓	
Persea sp.						*Utricularia foliosa	✓	✓	✓	✓	
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea	✓		✓		
Pinus elliotii			✓			*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.	✓					Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vitis sp.	✓	✓		✓	
Polygonum hirsutum						*Websteria confervoides					
*Polygonum hydropiperoides						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum punctatum						Wolffiella spp.					
*Polygonum SP		✓		✓		Woodwardia virginica				✓	
Pontederia cordata	✓	✓	✓	✓		Xyris sp.	✓	✓	✓	✓	
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						Rhynchospora microcephala	✓				ok
*Potamogeton pectinatus (Stuckenia pectinatus)						Sacciolepis indica				✓	ok
Proserpinaca pectinata						mitrella sessiflora					
*Rhexia SP			✓	✓		Rhynchospora tracyi	✓	✓		✓	ok
*Rhynchospora corniculata	✓		✓	✓	ok	Utricularia floridana	C	✓	✓	✓	
*Rhynchospora inundata	✓				ok	Wedelia trilobata		✓		✓	
Rhynchospora nitens	✓		✓			Cyperus involucreatus		✓			
Ricciocarpus natans						Ginger					ok
Sabal palmetto						Coelorachis tuberculosa			✓	✓	ok
Sacciolepis striata						Xanthosoma sagittifolium					ok
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia				✓							
Sagittaria latifolia											

Lake Joanna, WBID 2821B

