



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Lake Poinsett @ Center

Date: 10/03/19 10/28/19 11/19

WIN/ Field ID: G3CE0027

WBID: 2893K

Latitude: 28.33988

County: Brevard

ORG ID: 21 FL CEN

Longitude: -80.85528

Receiving Body of Water:

RQ-2018-2019 -10-07-82

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Natalie Ayala				X	X				☒ Sample Container	☐ Van Dorn	☐ Pole	
Leri B. Borne					X	X	X		☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with <u>SECCHI DISK / LINE / METER</u>			
									Equipment ID: <u>(KNOTHEAD/67, LEADFOOT/NON, CRUSTY/SCUD)</u>			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☐ From Shore	☐ Electric Motor		
									☒ Other <u>Airboat</u>	☐ Gasoline Motor		
Water Level: Dry / Pooled / Low / <u>(Normal)</u> / High / Flooded				Meter ID# <u>CRAW DADDY</u>				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / No				Flow: No Flow / Intertidal / Flowing / <u>NA</u>				Tide: Rising / Falling / Slack / <u>NA</u>				
Tide Times: High Low												
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)		
EST	1215	1.6	0.3	0.4	6.35	80.8	7.41	0.22	451.7	27.7		
CEN			<u>NA</u>		6.33	80.5	7.40	0.21	450.6	27.6		
Biological Samples Collected: None HA SCI RPS Algae ID LVS <u>(LVI)</u> Other:												
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: <u>111019</u> LIMS#: <u>2125213</u>												
Parameter Suite	Parameter Methods				Preservation	Lot#	Expiration	pH Check				
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4	<u>SA7163030</u>	<u>10/19</u>	☒ <2	H2SO4-Recertif LOT# SA7163030 EXP: 10/30/2019 HNO3 LOT# NA9129070 EXP: 05/09/2020			
Metals	☒ W-ICPMS ☐ W-ICP				☒ Ice ☒ HNO3	<u>NA9129070</u>	<u>5/20</u>	☒ <2				
Filtered Nutrients	☐ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice	<u>13615055</u>						
Chlorophyll	☒ CHL SUITE-W				☐ Ice							
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-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				☐ Ice							
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice							
Tracers	☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice							
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB AA				☐ Ice ☐ Other							

Notes:

WIN ID / Field ID →

Lake Poinsett @ Center



G3CE0027

Signature: [Signature]

Date: 10/03/2019

Enter Field Parameters, Verify Station ID In LIMS DMT: LB 02/04/2020

QC Station ID, Field Parameters In LIMS DMT: NA 3/4/20

Scan/Save Field Sheets

Migrate Data to WIN: NA 3/4/20

Verify Data in WIN:

EVENT ID: GEN-DIST-2019-10-04-02

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 80738 MACROPHYTE ID: 11619 LATITUDE: 28.33988
 COUNTY: BREWARD STORET #: G3C60027 LONGITUDE: -80.83528
 DATE: 10/03/19 TIME: _____ SAMPLING AGENCY: 21FLCEN
 SITE NAME: Lake Bonsett @ center WBID: 2893K
 FIELD ID/NAME: G3C60027 LAKE SIZE: _____ RQ: 2019-10-07-82

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS): Forest/Natural <u>99</u> Silviculture _____ Field/Pasture _____ Agricultural <u>0.5</u> Residential <u>0.5</u> Commercial _____ Industrial _____ Other (Specify) _____				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____															
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>19</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														
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
LAKESIDE ALTERATIONS <u>18</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)														
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
BUFFER ZONE <u>17</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														
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2

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>27.7</u> <u>7.41</u> <u>6.35</u> <u>80.8</u> <u>451.7</u> <u>0.22</u> Mid-Depth: _____ Bottom: <u>1.1</u> <u>27.6</u> <u>7.40</u> <u>6.33</u> <u>80.5</u> <u>450.6</u> <u>0.21</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): _____		Clarity: ☐ Clear ☒ Turbid (CB) ☐ Opaque ☒ Slightly Turbid	
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		SECCHI (M) <u>0.4</u> Total Station Depth (M) <u>1.6</u> VOB _____	
Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☐ ☒ ☐ ☐		Sediment Odors: ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic	
Additional Notes: _____ _____ _____			
Weather Conditions: _____			
SAMPLING TEAM: <u>Natalie Ayala, Leif Boman</u>		SIGNATURE: <u>[Signature]</u> DATE: <u>10/3/19</u>	

03 (B)

Waterbody: LAKE POINSETT	County: BREVARD	Date: 10/18/19
Analyst: NATALIE AYALA, LEE BOMAN	Signature: <i>[Signature]</i>	STORET: G3CE0027
Except where noted as "sp." species level identification required. *Genera that may require lab verification*		Lake units sampled (circle one group):
Plants in bold = FLEPPC invasive exotic.		1, 4, 7, 10 2, 5, 8, 11
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.		3, 6, 9, 12

SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Acer rubrum						Fraxinus					
Alternanthera philoxeroides	/	/	/	/		Fuirena scirpoides					
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 semulatum						*Hypericum hypericoides					
Boehmeria cylindrica						*Hypericum myrtifolium					
Brasenia schreberi						Ilex cassine					
Cabomba caroliniana						Ipomoea aquatica Sp					/
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					
*Commelina						Landoltia punctata (Spirodela punctata)					
Crinum americanum						Lemna sp.	/	/	/	/	
*Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus	/					Limnobium spongia			/		
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua					
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus						*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						Mayaca fluviatilis					
Eleocharis cellulosa						Melaleuca quinquenervia					
*Eleocharis elongata						Micranthemum glomeratum					
Eleocharis equisetoides						Micranthemum umbrosum					
Eleocharis interstincta						Mikania scandens	/	/	/	/	
Eleocharis submersa viviparous						Mimosa pigra	/	/	/	/	
*Eriocaulon compressum						Myrica cerifera					
*Eriocaulon decangulare											
Eupatorium capillifolium		/	/	/							

7, 4, 1, 10

Site: LAKE KINSEY					Date: 10/03/19						
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	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	/	/	/	/	7
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)	/	/	/	/	
Nuphar sp.	/	/	/	/		Scirpus cyperinus					
Nymphaea mexicana						*Sesbania herbacea (yellow)	/	/	/	/	
Nymphaea odorata		/	/	/		Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri sp	/	/	/	/	
Orontium aquaticum						Spirodela polyrrhiza					
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						Woodwardia virginica					
Pontederia cordata						Xyris sp.					
*Potamogeton diversifolius						Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						Hydrasachne amplexicaulis		/	/	/	
*Potamogeton pectinatus (Stuckenia pectinatus)						Wolffia columbiana	/	/	/	/	
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata	/	/	/	/							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

CONDUCTED WITH CARL (CJ) GREENE OF FWC.