



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Lake Farrar @ Center **Date:** 9/29/2020
WIN/Field ID: G4CE0200 **WBID:** 3168X7 **ENR:** **Latitude:** 28.508378
County: Orange **Org ID:** 21FLCEN **Longitude:** -81.320964
Receiving Body of Water: N/a **RQ:** 2020-08-24-38

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Victoria Schwartz		x		x	x
☒	Katie March	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Light	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☒ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SHRIMP TRAP					
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☒ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☐ LVI Other:											
SBIO ID Numbers: SBIO 81504						LIMS 2198882					
Notes: ALGAE BLOOM AND PERIPHYTON/SCUM											

Duplicate Sample

Time Zone: EST	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDMMYYYY)
DI Source: N/A	Location: N/A		
DI Type: N/A	Equipment ID: N/A		

LIMS EVENT ID: CEN-DIST-2020-09-30-01 WIN Import ID: 22626
Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 10/5/20 QC Station ID, Field Parameters In LIMS DMT: TR 10/12/2020
(Initials/Date) (Initials/Date)
Scan/Save Field Sheets KWM 10/30/20 Migrate Data to WIN: KWM 10/30/20 Verify Data In WIN:
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2020-08-24-38

Customer: WQAP

Project ID: SMP

Collected By: Victoria Schwartz, Katie March

Field Report Prepared By: Victoria Schwartz

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0200

Location: 3168X7

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)
9/29/2020	11:58 EST	8.74	114.1	29.2	7.18	0.301	1.6 ☐ VOB (S)	7.1	198.6	0.09

Central Lab please use top row for login purposes

	12:12 EST	0.36	4.4	24.1	6.44	6.625			313.5	0.15
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Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA0038110 Exp: 02/07/21	☒ Ice ☒ H2SO4*	☒ <2	1	C
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3* ☐ <2			
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 16930280 Syringe Lot # 9149785	☒ Ice		1	C
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	C
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	C
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☐ Ice			
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
		☐ Ice			

Name:
Victoria Schwartz
Katie March

Signature:

Kathryn March

Date:

09/29/20

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.508378
COUNTY: Orange STORET #: _____ LONGITUDE: -81.320964
DATE: 09/29/20 TIME: 11:58 SAMPLING AGENCY: 21FLCEN vs
SITE NAME: Lake Farrar @ Center WBID: 3168X7
FIELD ID/NAME: G4CED200 LAKE SIZE: 0.01313 sqmi RQ: 2020-08-24-38

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:					
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>3</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 <u>3</u> 2 1	
LAKESIDE ALTERATIONS <u>3</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 <u>3</u> 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 <u>3</u> 2 1	

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>SA0038110</u> Exp. Date: <u>02/07/21</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____							
Meter Readings: Top: <u>0.301</u> <u>29.2</u> <u>7.18</u> <u>8.74</u> <u>114.1</u> <u>198.6</u> <u>0.09</u> Mid-Depth: _____ Bottom: <u>6.625</u> <u>24.1</u> <u>6.44</u> <u>0.36</u> <u>4.4</u> <u>313.5</u> <u>0.15</u> Meter ID: <u>Shrimp Trap</u>								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 ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green							
Biological Communities: LVI Conducted? ☒ Yes ☒ No Phytoplankton Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☒ No Lot #: <u>N/A</u> Exp Date: <u>N/A</u> 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 ☒ ☐ ☐ ☐							
Sediment Odors: <u>N/A</u> ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic								Additional Notes: <u>Lots of periphyton present</u> <u>Algal bloom - suspended</u> <u>LVI conducted</u>							
Weather Conditions : <u>Sunny</u>															
SAMPLING TEAM: <u>Katie March / Victoria Schwartz</u>								SIGNATURE: <u>Katie March</u> <u>Victoria Schwartz</u>				DATE: <u>09/29/20</u>			

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Farrar</u>		County: <u>Orange</u>		Date: <u>09/29/20</u>									
Analyst: <u>Katie March / Victoria Schwartz</u>		Signature: <u>K March</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 <u>2, 5, 8, 11</u> 3, 6, 9, 12									
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		2	5	8	11	Collected? (✓)	SPECIES		2	5	8	11	Collected? (✓)
Acer rubrum							Fuirena scirpoides						
Alternanthera philoxeroides		/	/	/	/		Gordonia lasianthus						
Amaranthus australis							Habenaria repens						
Andropogon sp.							Hibiscus coccineus						
Azolla filiculoides (A. caroliniana)							Hibiscus grandiflora						
Baccharis sp.							Hydrilla verticillata		/	D	D	D	
Bacopa caroliniana							Hydrocotyle sp.		/	/	/	/	
Bacopa monnieri		/	/	/	/		Hygrophila polysperma						
Bidens alba							Hymenocallis sp.						
Bidens laevis							*Hypericum fasciculatum						
Bidens mitis							*Hypericum hypericoides						
Blechnum serrulatum							*Hypericum myrtifolium						
Boehmeria cylindrica							Ilex cassine						
Brasenia schreberi							Ipomoea aquatica						
Cabomba caroliniana							Ipomoea sagittata						
Canna							Itea virginica						
Centella asiatica							Juncus effusus						
Cephalanthus occidentalis		/	/	/	/		*Juncus marginatus						
Ceratophyllum demersum		/	/	/	/		*Juncus megacephalus						KWM
Chara sp.							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							Limnium 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 <u>baldwinia</u>				/	/	✓	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							<u>Ludwigia palustris</u>						✓
Eupatorium capillifolium													
Fraxinus													

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Farrar</u>					Date: <u>09/29/20</u>						
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
Myriophyllum aquaticum						<i>Salix caroliniana</i>					
* <i>Myriophyllum heterophyllum</i>						Salvinia minima					
* <i>Myriophyllum laxum</i>						<i>Sambucus canadensis</i>					
* <i>Myriophyllum pinnatum</i>						Sapium sebiferum					
Myriophyllum spicatum						<i>Saururus cernuus</i>					
* <i>Najas filifolia</i>						Schinus terebinthifolius					
* <i>Najas guadalupensis</i>						* <i>Schoenoplectus californicus</i>					
* <i>Najas minor</i>						* <i>Schoenoplectus pungens</i>					
<i>Nelumbo lutea</i>						* <i>Schoenoplectus tabernaemontani</i> (<i>Scirpus validus</i>)					
<i>Nitella</i> spp.						<i>Scirpus cubensis</i> (<i>Oxycaryon cubense</i>)					
<i>Nuphar</i> sp.						<i>Scirpus cyperinus</i>					
<i>Nymphaea mexicana</i>						* <i>Sesbania</i>					
<i>Nymphaea odorata</i>						<i>Solidago</i> sp.					
<i>Nymphoides aquatica</i>						<i>Sparganium americanum</i>					
<i>Nyssa sylvatica</i> var. <i>biflora</i>						<i>Spartina bakeri</i>					
<i>Orontium aquaticum</i>						<i>Spirodela polyrhiza</i>					
<i>Osmunda cinnamomea</i>						<i>Taxodium</i> sp.					
<i>Osmunda regalis</i>						<i>Thalia geniculata</i>					
<i>Panicum hemitomon</i>						<i>Thelypteris interrupta</i>					
Panicum repens						<i>Thelypteris palustris</i>					
<i>Paspalidium geminatum</i>						<i>Triadenum virginicum</i>					
* <i>Paspalum repens</i>						<i>Typha</i> sp.					
<i>Paspalum urvillei</i>						Urochloa mutica (<i>Brachiaria mutica</i>)					
<i>Peltandra</i> sp.						* <i>Utricularia foliosa</i>					
<i>Persea</i> sp.						* <i>Utricularia gibba</i> (<i>U. biflora</i>)					
Pennisetum purpureum						* <i>Utricularia inflata</i>					
<i>Phragmites australis</i>						* <i>Utricularia purpurea</i>					
<i>Pinus elliotii</i>						* <i>Utricularia radiata</i>					
Pistia stratioides						* <i>Utricularia resupinata</i>					
<i>Pluchea</i> sp.						<i>Vallisneria americana</i>					
* <i>Polygonum glabrum</i> (<i>densiflorum</i>)						<i>Vigna luteola</i>					
<i>Polygonum hirsutum</i>						<i>Vitis</i> sp.					
* <i>Polygonum hydropiperoides</i>						* <i>Websteria confervoides</i>					
* <i>Polygonum punctatum</i>						Wedelia trilobata (<i>Sphagneticola trilobata</i>)					
* <i>Polygonum</i>						<i>Wolffiella</i> spp.					
<i>Pontederia cordata</i>						<i>Woodwardia virginica</i>					
* <i>Potamogeton diversifolius</i>						<i>Xyris</i> sp.					
* <i>Potamogeton illinoensis</i>						<i>Zizania aquatica</i>					
* <i>Potamogeton pusillus</i>						<i>Zizaniopsis milacea</i>					
* <i>Potamogeton pectinatus</i> (<i>Stuckenia pectinatus</i>)											
<i>Proserpinaca pectinata</i>											
* <i>Rhexia</i>											
* <i>Rhynchospora corniculata</i>											
* <i>Rhynchospora inundata</i>											
<i>Rhynchospora nitens</i>											
<i>Ricciocarpus natans</i>											
<i>Sabal palmetto</i>											
<i>Sacciolepis striata</i>											
* <i>Sagittaria filiformis</i>											
* <i>Sagittaria graminea</i>											
* <i>Sagittaria isoetiformis</i>											
<i>Sagittaria lancifolia</i>											
<i>Sagittaria latifolia</i>											

LVI Map for Lake Farrar, WBID 3168X7

