



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 12

Data Qualified?
Yes / No

Location/STORET Station Name: LAKE ELLEN

Date: 08/31/2017
(mm/dd/yyyy)

STORET # G1SW0074

WBID: 1516E

Latitude: 28.06104444

County: Hillsborough

RQ - 2017-08-28-14

ORG ID: 21FLTPA

Longitude: -82.49628611

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: SWEETWATER CREEK

Field ID: G1SW0074

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mussion					X	X	X	X	X
S. J. J.					X	X	X	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: Dry / Pooled / Low / Normal / High / Flooded							Matrix: Fresh / Marine / DI			
Meter ID# 610192			Photos: Yes / No				Tide Falling: Yes / No / NA			
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	1000	0.5	5.2	6.72	89.3	6.82	0.10	1.6	220	29.91
CEN	958	4.7		0.30	3.4	5.94	0.11		233	28.28

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

SBIO ID Numbers: SBIO-ID: 77909 RPS-ID: X Macrophyte-ID: 10703 UMS#: 1927007

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	547163030	6/12/18	☒ <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-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			

Notes: Charlene Wall, 3216 N. Stoney Brook No#, Maybe knock on door? Kit A, LVI
Community boat ramp between 3212 and 3214 Stoneybrook

RQ-2017-08-28-14
Date: _____
Time: _____
Field ID: G1SW0074
STORET: G1SW0074
Lake Ellen

Signature: _____ Date: _____

Field Parameters Entered into LIMS: 9/5/2017 (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date)
Field Parameters QC in LIMS: 9/5/2017 (Initials/Date)
Field Sheets Scanned/Saved: _____ (Initials/Date)

Site:

Lake Ellen / GISW0074

Date:

8/31/17

SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana		X	X	X	
*Myriophyllum heterophyllum						Salvinia minima	X		X		
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum	X		X		
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius	X	X	X		
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.	X	X	X	X		Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis	X		X			Taxodium sp.	X	X	X		
Panicum hemitomon						Thalia geniculata					
Panicum repens	X	X	X	X		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.	X	X		X	
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.			X			*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.	X					*Utricularia radiata					
*Polygonum glabrum (densiflorum)						Vallisneria americana	X	X	X	X	
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum	X	X				Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata		X	X	X		Woodwardia virginica					
*Potamogeton diversifolius	X	X	X	X		Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)											
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto			X								
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia	X			X							
Sagittaria latifolia											

Micro FD 10703

Form FD9000-27 Lake Vegetation Index Data Sheet (06-21-11)

Waterbody: <u>Lake Ellen</u>					County: <u>Hillsborough</u>					Date: <u>8/31/17</u>				
Analyst: <u>C. Mussen / J. Stappes</u>					Signature: <u>C. Mussen</u>					STORET: <u>615W0074</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): <u>1, 4, 7, 10</u> 2, 5, 8, 11 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		1	4	7	10	Collected? (✓)	SPECIES		1	4	7	10	Collected? (✓)	
Acer rubrum		X	X	X	X		Habenaria repens							
Alternanthera philoxeroides		X	X	X	X		Hydrilla verticillata	X	X	X	X			
Andropogon sp.							Hydrocotyle sp.	X	X	X	X			
Azolla filiculoides (A. caroliniana)							Hygrophila polysperma							
Baccharis sp.				X			*Hypericum fasciculatum							
Bacopa caroliniana	gt	X					*Hypericum hypericoides							
Bacopa monnieri		X					*Hypericum myrtifolium							
Bidens laevis							Ilex cassine	X		X				
Bidens mitis							Ipomoea aquatica	X						
Blechnum serrulatum		X	X	X	X		Ipomoea sagittata							
Boehmeria cylindrica		X	X	X			Itea virginica							
Brasenia schreberi							Juncus effusus							
Cabomba caroliniana							*Juncus marginatus							
Casuarina equisetifolia				X			*Juncus megacephalus							
Centella asiatica							Juncus repens							
Cephalanthus occidentalis			X	X			*Juncus scirpoides							
Ceratophyllum demersum		X	X	X			Lachnanthes caroliniana							
Chara sp.							Leersia hexandra							
Cladium jamaicense							Landoltia punctata (Spirodela punctata)							
Cliftonia monophylla							Lemna sp.							
Colocasia esculenta							Leucothoe racemosa (Eubotrys racemosa)							
*Commelina	gt	X	X				Limnium spongia							
Crinum americanum							Limnophila sessiliflora							
*Cyperus alternifolius (C. involucratus)		X	X				Liquidambar styraciflua							
Cyperus articulatus							*Ludwigia arcuata							
Cyperus haspan							*Ludwigia leptocarpa							
*Cyperus lecontei							*Ludwigia linearis							
*Cyperus polystachyos							*Ludwigia octovalvis							
*Cyperus odoratus							*Ludwigia peruviana	X	X	X	X			
*Cyperus surinamensis							*Ludwigia repens							
Cyrtilla racemiflora							*Ludwigia							
Decodon verticillatus							Luziola fluitans (Hydrochloa carolinensis)							
Diodia virginiana							Lyonia lucida							
*Echinochloa crus-galli							Magnolia virginiana							
*Echinochloa muricatum							Mayaca fluviatilis							
Echinochloa walteri							Melaleuca quinquenervia	X	X	X	X			
Eclipta prostrata (E. alba)		X	X				Micranthemum glomeratum							
Egeria densa							Micranthemum umbrosum							
Eichhornia crassipes		X	X	X	X		Mikania scandens	X		X	X			
*Eleocharis baldwinii		X	X				Mimosa pigra							
*Eleocharis <u>virginiana</u>		X	X				Myrica cerifera	X						

Macrophyte QC Report

STORET: G1SW0074

Visit ID: 77909

Macrophyte ID: 10703

LIMS ID: 1927007

Sample Date: 8/31/2017

Collector Name: Musson, Curtis

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4
<i>Acer rubrum</i>	P	P	P	P
<i>Alternanthera philoxeroides</i>	P	P	P	P
<i>Baccharis</i>			P	
<i>Bacopa monnieri</i>	P			
<i>Blechnum serrulatum</i>	P	P	P	P
<i>Boehmeria cylindrica</i>	P	P	P	
<i>Casuarina equisetifolia</i>			P	
<i>Cephalanthus occidentalis</i>		P	P	
<i>Ceratophyllum demersum</i>	P	P	P	
<i>Commelina</i>		P		
<i>Cyperus alternifolius</i>	P	P		
<i>Eclipta prostrata</i>	P	P		
<i>Eichhornia crassipes</i>	P	P	P	P
<i>Eleocharis</i>	P	P		
<i>Eleocharis baldwinii</i>	P	P		
<i>Eupatorium capillifolium</i>			P	
<i>Hydrilla verticillata</i>	D	C	D	D
<i>Hydrocotyle</i>	P	P	P	
<i>Ilex cassine</i>	P		P	
<i>Ipomoea aquatica</i>	P			
<i>Ludwigia peruviana</i>	P	P	P	P
<i>Lycopus virginicus</i>			P	
<i>Melaleuca quinquenervia</i>	P	P	P	P
<i>Mikania scandens</i>	P		P	P
<i>Myrica cerifera</i>	P		P	P
<i>Nuphar</i>	P	C	P	P
<i>Osmunda regalis</i>	P		P	
<i>Panicum repens</i>	P	P	P	P
<i>Peltandra</i>			P	
<i>Pluchea</i>	P			
<i>Polygonum punctatum</i>	P	P		
<i>Pontederia cordata</i>		P	P	P
<i>Potamogeton diversifolius</i>	P	P	P	

This data has not been fully approved at this time.

Macrophyte QC Report

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4
<i>Sabal minor</i>			P	
<i>Sabal palmetto</i>			P	
<i>Sagittaria lancifolia</i>	P			P
<i>Salix caroliniana</i>		P		P
<i>Salvinia minima</i>	P		P	
<i>Sapium sebiferum</i>	P		P	
<i>Schinus terebinthifolius</i>	P	P	P	
<i>Taxodium</i>	P	P	P	
<i>Thalia geniculata</i>			P	
<i>Triadenum virginicum</i>		P		
<i>Typha</i>	P	P		P
<i>Vallisneria americana</i>	P	P	P	P

This data has not been fully approved at this time.

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 77909 MACROPHYTE ID: 10703 LATITUDE: 28.0610444
 COUNTY: Hillsborough STORET #: G15W0074 LONGITUDE: -92.4962861
 DATE: 8/31/2017 TIME: 10:00 SAMPLING AGENCY: FDEP
 SITE NAME: LAKE ELLEN WBID: 1516E
 FIELD ID/NAME: Lake ELLEN LAKE SIZE: 51.7 RQ: 2017-08-28-14
Acres

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>water</u> Forest/Natural <u>16</u> Silviculture <u>0.1</u> Field/Pasture <u>2</u> Agricultural <u>0</u> Residential <u>55</u> Commercial <u>11</u> Industrial <u>0.1</u> Other (Specify) <u>16</u>										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>5.7</u>							
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>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>2</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 <u>2</u> 1			
BUFFER ZONE <u>2</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 <u>2</u> 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 # <u>547163030</u> Exp. Date: <u>06/12/18</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☐ Normal ☒ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Top: <u>0.5</u> <u>29.91</u> <u>6.82</u> <u>6.72</u> <u>89.3</u> <u>220</u> <u>0.10</u> Mid-Depth: <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> <u>—</u> Bottom: <u>4.7</u> <u>28.28</u> <u>5.99</u> <u>0.30</u> <u>3.9</u> <u>233</u> <u>0.11</u>										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Meter ID: <u>Biology #2</u>										Clarity: ☐ Clear ☒ 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): _____										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 ☒ 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 :																			
SAMPLING TEAM: <u>Storrs / Musson</u>										SIGNATURE: <u>[Signature]</u>					DATE: <u>8/31/2017</u>				

SB Form 77909

Macro ID: 10703

DEP-SOP-001/01: Form FD 9000-6

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: G15W0074	DATE (M/D/Y): 8/31/17	LAKE NAME: Lake Ellen	FIELD ID / NAME:
ECO-REGION:	COUNTY: Hillsborough	SAMPLING LOCATION/DESCRIPTION: Lake Ellen middle	LAKE SIZE: 51.7 Acres
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☐	Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☒
HYDROLOGY			Impounded, hydrology of system artificially controlled ☐
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☒
	Optimal	Suboptimal	Marginal
Secchi 66	Secchi > 3 m Or VOB 20 19 18 17 16	3 2.6 2.2 1.8 1.4 15 14 13 12 11	1.0 0.9 0.8 0.7 0.6 10 9 8 7 6
Vegetation Quality 5	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 18 17 16	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11	Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6
Stormwater Inputs 3	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
Bottom Substrate Quality 13	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 20 19 18 17 16	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11	Moderate layer of CPOM/mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6
Lakeside Adverse Human Alterations 2	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 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
Upland Buffer Zone 2	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
Adverse Watershed Land Use 11.4	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial 20 19 18 17 16	15 14 13 12 11	10 9 8 7 6
TOTAL SCORE 48	COMMENTS:		

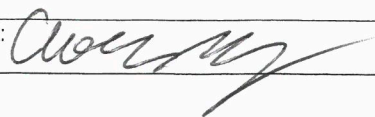
ANALYSIS DATE:

8/31/2017

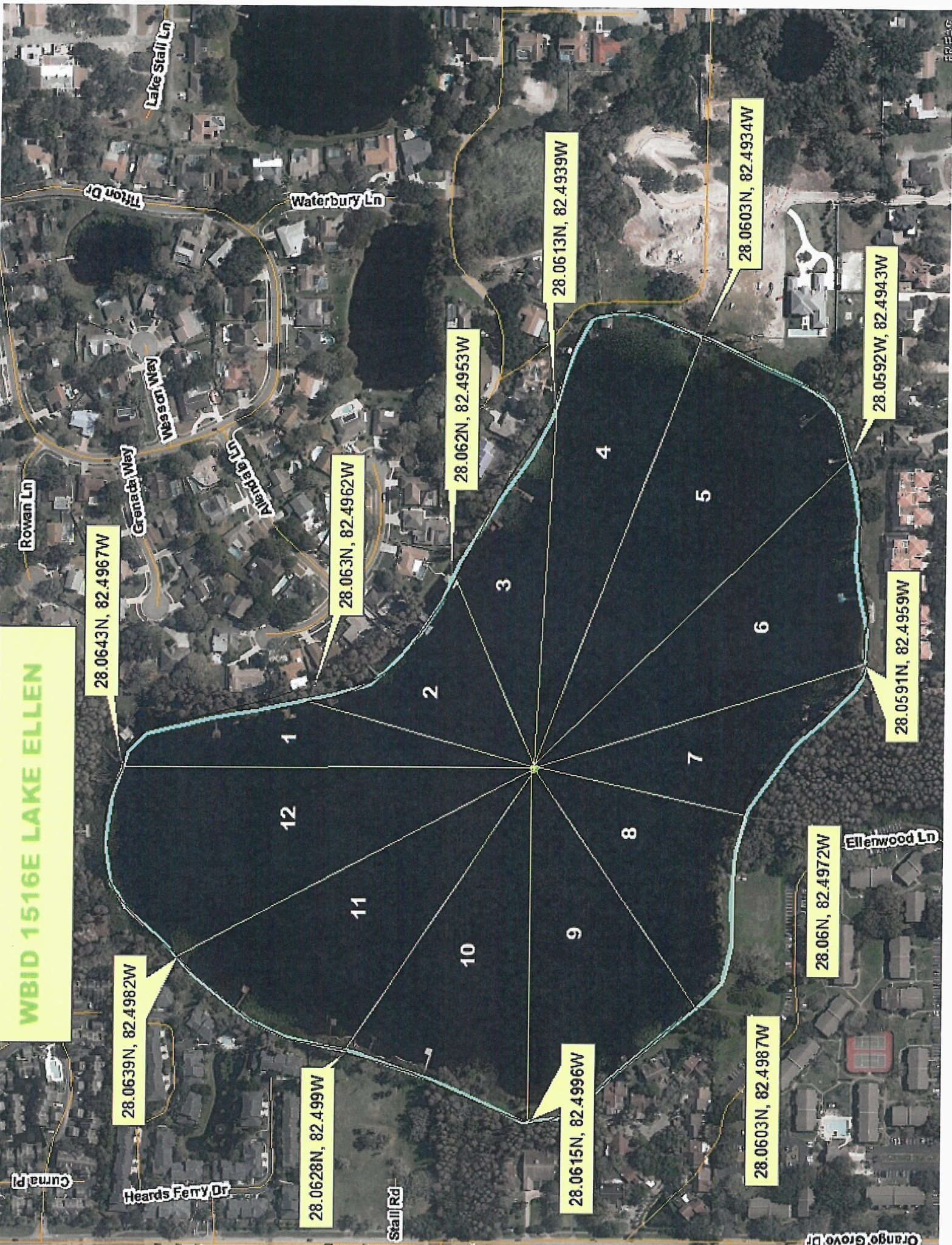
ANALYST:

Starrs / Massa

SIGNATURE:



WBID 1516E LAKE ELLEN



RQ-2017-08-28-14

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly/this box there is qualified data on this name.

PH

Meter ID: Biology #2

Project: LVI Tampa

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Jason Storr	8/31/17	710	24.54	8.34	8.34	100.0	53.3		P	
ICV	Jason Storr	8/31/17	712	24.51	8.34	8.33	99.9	53.3		P	
CCV	Jason Storr	8/31/17	1637	24.45	7.625	7.59	94.5	53.3		P	
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Jason Storr	8/31/17	714	2703D66	03/19	1000	1000	P	
ICV	Jason Storr	8/31/17	716	2703D66	03/19	1000	1000	P	
CCV	Jason Storr	8/31/17	1640	170614D	06/18	100	102	P	
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Jason Storr	8/31/17	720	167097	10/18	7.0	6.98	13.4	P	
Calibr.	Jason Storr	8/31/17	722	167431	11/18	4.0	3.96	126.8	P	
Calibr.	Jason Storr	8/31/17	725	164223	07/18	10.0	10.03	-152.9	P	
ICV	Jason Storr	8/31/17	730	164223	07/18	10.0	9.96	-154.5	P	
CCV	Jason Storr	8/31/17	1645	170614A	06/18	4.0	3.12	202.4	F	
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 ± 50 ;mV pH 4 Range $+180 \pm 50$;mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air	Jason Storr	8/31/17	730	0.000	0.000	AP	

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

FIELD_ID PROJEC STATION_ID COLLECTION_DATE SAMPL DEPT+ COMPONENT_NAME RESULT ALIF UNITS FIELD_COMMENT

G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Depth, bottom	2.5		m	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Dissolved oxygen (DO)	6.94		mg/l	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Dissolved oxygen saturation	92.9		%	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Salinity	0.06		ppth	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Secchi disk depth	2		m	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Specific conductance	133		umho/cm	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	Temperature, water	30.35		deg C	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	1	pH	5.92	J	None	J Qualifier for pH- failed CCV post sampling
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Depth	2		m	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Dissolved oxygen (DO)	5.48		mg/l	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Dissolved oxygen saturation	71		%	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Salinity	0.06		ppth	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Specific conductance	132		umho/cm	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	Temperature, water	29.82		deg C	
G1SW0070	SMP	G1SW0070	8/31/2017 11:25	0.5	2	pH	5.65	J	None	J Qualifier for pH- failed CCV post sampling
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Depth, bottom	5.2		m	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Dissolved oxygen (DO)	6.72		mg/l	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Dissolved oxygen saturation	89.3		%	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Salinity	0.1		ppth	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Secchi disk depth	1.6		m	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Specific conductance	220		umho/cm	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	Temperature, water	29.91		deg C	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	1	pH	6.82	J	None	J Qualifier for pH- failed CCV post sampling
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	Depth	4.7		m	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	Dissolved oxygen (DO)	0.3		mg/l	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	Dissolved oxygen saturation	3.9		%	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	Salinity	0.11		ppth	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	Specific conductance	233		umho/cm	
G1SW0074	SMP	G1SW0074	8/31/2017 10:00	0.5	2	pH	5.94	J	None	J Qualifier for pH- failed CCV post sampling

enter into LIMS
9/5/2017 JH

Lakes-A-kits

Customer: WQAP

Project ID: SMP

Requester: Judy Ashton

Collected By: *Storrs / Muslow*Field Report Prepared By: *FOEP - Storrs*Sampling Agency: *FOEP*

Location		RQ-2017-08-28-14		Field ID		G1SW00074		Date: 8/31/17		Time: 1000		Composite end		Bottle Group(s)	
Field ID		G1SW00074		Date		8/31/17		Time		1000		mg/L		(See pg 2)	
STORET #		G1SW00074		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.72		Total Res. Chlorine		A	
Latitude		Lake Ellen		Temp (C)		29.91		pH		6.81		Sample Depth		220	
Longitude				Salinity (ppt)		0.10		Comments		LVI		ft			
dd		dms		dd		dms						m			
Location		RQ-2017-08-28-14		Field ID		G1SW00070		Date: 8/31/17		Time: 1125		Composite end		Bottle Group(s)	
Field ID		G1SW00070		Date		8/31/17		Time		1125		mg/L		A	
STORET #		G1SW00070		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		6.94		Total Res. Chlorine			
Latitude		Little Deer Lake		Temp (C)		30.35		pH		5.92		Sample Depth		133	
Longitude				Salinity (ppt)		0.06		Comments		LVI		ft			
dd		dms		dd		dms						m			
Location				Field ID				Date				Composite end		Bottle Group(s)	
Field ID				Date				Time				mg/L			
STORET #				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
Latitude				Temp (C)				pH				Sample Depth			
Longitude				Salinity (ppt)				Comments				ft			
dd		dms		dd		dms						m			
Location				Field ID				Date				Composite end		Bottle Group(s)	
Field ID				Date				Time				mg/L			
STORET #				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
Latitude				Temp (C)				pH				Sample Depth			
Longitude				Salinity (ppt)				Comments				ft			
dd		dms		dd		dms						m			
Location				Field ID				Date				Composite end		Bottle Group(s)	
Field ID				Date				Time				mg/L			
STORET #				Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen				Total Res. Chlorine			
Latitude				Temp (C)				pH				Sample Depth			
Longitude				Salinity (ppt)				Comments				ft			
dd		dms		dd		dms						m			

Relinquished By: <i>[Signature]</i>	Date/Time: 8/31/2017/1320	Shipping Method: <i>Reg off</i>	Number of Coolers Shipped: 1	Received By: <i>[Signature]</i>	Date/Time:
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Group: A	Bottle Type:	P-1L	# of Bottles: 17	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY					2
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: A	Bottle Type:	BP-1L	# of Bottles: 17	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					2
Group: A	Bottle Type:	P-500ML	# of Bottles: 17	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3					2
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: A	Bottle Type:	P-125ML	# of Bottles: 17	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab
	W-PO4-F					2