



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Lake Tom John Middle

Date: 10/24/2018

(mm/dd/yyyy)

WIN/ Field ID: G1WA0043

WBID: 647A

Latitude: 30.54484

County: Leon

ORG ID: 21FLWQA

Longitude: -84.21478

(Decimal Degrees)

Receiving Body of Water: Lake Kinsale

RQ-2018- 10-22-10

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Curtis Musson						X	X	X		☒ Sample Container	☐ Van Dorn	☐ Pole		
Blake Spencer					X	X				☐ Carboy	☒ Syringe			
										☐ Dipper	☐ Other			
										Depth Measured with Equipment ID				
										Collection Method				
										☐ Wading	☒ Canoe/Kayak			
										☐ From Shore	☐ Electric Motor			
										☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded					Meter ID# Bio #2					Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No					Flow: No Flow / Intestinal / Flowing / <u>NA</u>					Tide: Rising/ Falling/ Slack/ <u>NA</u>				
Tide Times: High <u>NA</u> Low <u>NA</u>														
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	1135	2.4	0.3	VOB	10.78	126.5	7.25	0.02	54	23.32				
CEN	1133		1.9		8.69	100.3	7.36	0.02	55	22.73				
Biological Samples Collected: None HA SCI RPS Algae ID LVS <u>LVI</u> Other:														
SBIO ID Numbers: SBIO-ID: 78954 HA-ID: 15439 RPS-ID: Macrophyte-ID: 1106 LIMS#: 2035496														
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	SA9085170	3/26/19	☒ <2					
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	NA7341010	12/7/19	☒ <2					
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter					☒ Ice	10827054							
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					☒ 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 ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice ☐ Other								

Notes:

Kit C
E.coli
LVI

Location → Lake Tom John Middle

← Field/WIN ID
G1WA0043

Signature:

Date: 10/24/18

Enter Field Parameters, Verify Station ID In LIMS DMT: 10/25/18

QC Station ID, Field Parameters In LIMS DMT: Cm 11-2-18

Scan/Save Field Sheets Cm 11-2-18

Migrate Data to WIN:

Verify Data In WIN:

Entered by: ~~SSB~~ 10/30/18
QC by: CM 11-2-18

DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

SRIID: 78954 HA: 15439

STORET STATION NUMBER: G/WA0043	DATE (M/D/Y) 10/24/18	LAKE NAME Lake Tom John		FIELD ID / NAME: G/WA0043
ECO-REGION:	COUNTY: Leon	SAMPLING LOCATION/DESCRIPTION: Lake Tom John middle		LAKE SIZE: 44.5 ac / 18.0 Hg
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 ☐	Impounded, hydrology of system artificially controlled ☒
HYDROLOGY				
Color 2016, 2017 $\bar{x}$ = 12.5	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☒	Dark, discolored water (water color > 20 PCU or higher) ☒	Visibility extremely reduced due to high color ☒
	Optimal	Suboptimal	Marginal	Poor
Secchi VOB 20	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	0.5 0.4 0.3 0.2 0.1 5 4 3 2 1
Vegetation Quality 11	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	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5 4 3 2 1
Stormwater Inputs 4	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
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	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1
Lakeside Adverse Human Alterations 4	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	Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1
Upland Buffer Zone 6	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
Adverse Watershed Land Use 10	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 5 4 3 2 1			

TOTAL SCORE: 68 COMMENTS: 99% Macrophyte cover. Thick Najas G. Mats

ANALYSIS DATE: 10/24/18 ANALYST: Cortis Mussen SIGNATURE: [Signature]

Entered by: max 10/30/18

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78954 MACROPHYTE ID: 11106 LATITUDE: 30.54484
 COUNTY: Leon STORET #: GIWA0043 LONGITUDE: -84.21478
 DATE: 10/24/18 TIME: _____ SAMPLING AGENCY: FDEP
 SITE NAME: Lake Tom John Middle WBID: 647A
 FIELD ID/NAME: GIWA0043 LAKE SIZE: 44.5 Ac RQ: 2018-10-22-10
18.0 HA

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS) : <u>Water</u> Forest/Natural <u>24</u> Silviculture <u>-</u> Field/Pasture <u>-</u> Agricultural <u>-</u> Residential <u>63</u> Commercial <u>-</u> Industrial <u>-</u> Other (Specify) <u>13</u>							LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>4.8</u>		
Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☒ Heavy Artificially Impounded ☒ Yes ☐ No							Land Use Source & Year:		
STORMWATER INPUTS <u>4</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	
LAKESIDE ALTERATIONS <u>4</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)	
BUFFER ZONE <u>6</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 # <u>540085170</u> Exp. Date: <u>3/26/19</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____ Water Surface Oils: ☒ None ☐ Sheen/Slack ☐ Glob ☐ Other _____					
Meter Readings: Top: Depth (M) <u>0.3</u> Temp. (°C) <u>23.32</u> pH (SU) <u>7.25</u> D.O. (MG/L) <u>10.78</u> D.O. Sat. (%) <u>126.5</u> Cond. (UMHO/CM) <u>54</u> Salinity (PPT) <u>0.02</u> Mid-Depth: _____ Bottom: <u>1.9</u> <u>22.73</u> <u>7.36</u> <u>8.69</u> <u>100.3</u> <u>55</u> <u>0.02</u>						Clarity: <u>56</u> ☒ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☒ Clear ☐ Tannic ☐ Green					
Meter ID: <u>Biology # 2</u>						SECCHI (M) _____ Total Station Depth (M) <u>2.4</u> VOB ☒					
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 #: <u>NA</u> Exp Date: <u>NA</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 ☒ ☐ ☐ ☐					
Weather Conditions :						Additional Notes:					
SAMPLING TEAM: <u>Curtis Musson & Blake Spencer</u>						SIGNATURE: <u>[Signature]</u>					
DATE: <u>10/24/18</u>											

SRIO: 78954 Macrophyte: 11106 DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Tom John</u>					County: <u>Leon</u>					Date: <u>10/24/18</u>				
Analyst: <u>Blake Spencer & Curtis Musson</u>					Signature: <u>[Signature]</u>					STORET:				
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 <u>(2, 5, 8, 11)</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.										3, 6, 9, 12				
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)			
Acer rubrum		X	X			Habenaria repens								
Alternanthera philoxeroides			X			Hydrilla verticillata								
Andropogon sp.						Hydrocotyle sp.	X							
Azolla filiculoides (A. caroliniana)						Hrdolea quadrivalis			X					
Baccharis sp.						Hygrophila polysperma								
Bacopa caroliniana	X	X	X	X		*Hypericum fasciculatum								
Bacopa monnieri						*Hypericum hypericoides								
Bidens laevis						*Hypericum myrtifolium								
Bidens mitis				X		Ilex cassine								
Blechnum serrulatum						Ipomoea aquatica								
Boehmeria cylindrica						Ipomoea sagittata								
Brasenia schreberi	X	X	X			Iris pseudacorus								
Cabomba caroliniana						Itea virginica								
Casuarina equisetifolia						Juncus effusus	X							
Centella asiatica						*Juncus marginatus								
Cephalanthus occidentalis	X	X	X	X		*Juncus megacephalus								
Ceratophyllum demersum						Juncus repens								
Chara sp.						*Juncus scirpoides								
Cladium jamaicense						Lachnanthes caroliniana								
Cliftonia monophylla						Leersia hexandra								
Colocasia esculenta			X			Landoltia punctata (Spirodela punctata)								
*Commelina						Lemna sp.								
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)								
*Cyperus alternifolius (C. involucratus)						Limnium spongia								
Cyperus articulatus						Limnophila sessiliflora								
Cyperus haspan						Liquidamber styraciflua								
*Cyperus lecontei						*Ludwigia arcuata								
*Cyperus polystachyos						*Ludwigia leptocarpa	X	X		X				
*Cyperus odoratus						*Ludwigia linearis								
*Cyperus surinamensis						*Ludwigia octovalvis								
Cyrilla racemiflora	X	X				*Ludwigia peruviana								
Decodon verticillatus	X	X		X		*Ludwigia repens								
Diodia virginiana						*Ludwigia								
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)								
*Echinochloa muricatum						Lycopus virginicus								
Echinochloa walteri						Lyonia lucida								
Eclipta prostrata (E. alba)						Magnolia virginiana								
Egeria densa						Mayaca fluviatilis								
Eichhornia crassipes	X	X	C	X		Melaleuca quinquenervia								
*Eleocharis baldwinii						Micranthemum glomeratum								
*Eleocharis (<i>V. viviparous</i>)	X			X		Micranthemum umbrosum								
Eleocharis cellulosa						Mikania scandens		X		X				
Eleocharis equisetoides						Mimosa pigra								
Eleocharis interstincta						Myrica cerifera			X					
*Eriocaulon compressum														
*Eriocaulon decangulare						<i>Lycopus virginiana</i>	X			X				
Eupatorium capillifolium	X													
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Tom John

Date: 10/24/18

SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum	X	X	C	X		Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum	X		X		
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis	D	D	X	D		*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea	X					*Schoenoplectus tabernaemontani (Scirpus validus)					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)	X				
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata	X	X	X	X		*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora		X	X	X		Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.	X	X			
Panicum hemitomon						Thalia geniculata					
Panicum repens	X					Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.				X	
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)	X				
Persea sp.						*Utricularia floridana				X	
Pennisetum purpureum						*Utricularia foliosa					
Phragmites australis						*Utricularia inflata					
Pinus elliotii						*Utricularia purpurea					
Pistia stratioides						*Utricularia cornuta					
Pluchea sp.						*Utricularia radiata					
*Polygonum glabrum (densiflorum)	X	X	X	X		Vallisneria americana					
*Polygonum hydropiperoides						*Websteria confervoides					
*Polygonum punctatum						Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata	X					Woodwardia virginica					
*Potamogeton diversifolius						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											
Sacciolepis striata	X		X	X							
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

Macrophyte QC Report

STORET: G1WA0043

Visit ID: 78954

Macrophyte ID: 11106

LIMS ID: 2035496

Sample Date: 10/24/2018

Collector Name: Musson, Curtis

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

2 5 8 11

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4	SBS
<i>Acer rubrum</i>		P	P		✓
<i>Alternanthera philoxeroides</i>			P		✓
<i>Bacopa caroliniana</i>	P	P	P	P	✓
<i>Bidens mitis</i>				P	✓
<i>Brasenia schreberi</i>	P	P	P		✓
<i>Cephalanthus occidentalis</i>	P	P	P	P	✓
<i>Colocasia esculenta</i>			P		✓
<i>Cyrilla racemiflora</i>	P	P			✓
<i>Decodon verticillatus</i>	P	P		P	✓
<i>Eichhornia crassipes</i>	P	P	C	P	✓
<i>Eleocharis submersa viviparous</i>	P			P	✓
<i>Eupatorium capillifolium</i>	P				✓
<i>Hydrocotyle</i>	P				✓
<i>Hydrolea quadrivalvis</i>			P		✓
<i>Juncus effusus</i>	P				✓
<i>Ludwigia leptocarpa</i>	P	P		P	✓
<i>Lycopus virginicus</i>	P			P	✓
<i>Mikania scandens</i>		P		P	✓
<i>Myrica cerifera</i>			P		✓
<i>Myriophyllum heterophyllum</i>	P	P	C	P	✓
<i>Najas guadalupensis</i>	D	D	P	D	✓
<i>Nelumbo lutea</i>	P				✓
<i>Nymphaea odorata</i>	P	P	P	P	✓
<i>Nyssa sylvatica biflora</i>		P	P	P	✓
<i>Oxycaryum</i>		P			✓
<i>Panicum repens</i>	P				✓
<i>Polygonum glabrum</i>	P	P	P	P	✓
<i>Pontederia cordata</i>	P				✓
<i>Sacciolepis striata</i>	P		P	P	✓
<i>Sapium sebiferum</i>	P		P		✓
<i>Taxodium</i>	P	P			✓
<i>Typha</i>				P	✓
<i>Utricularia floridana</i>				P	✓

This data has not been fully approved at this time.

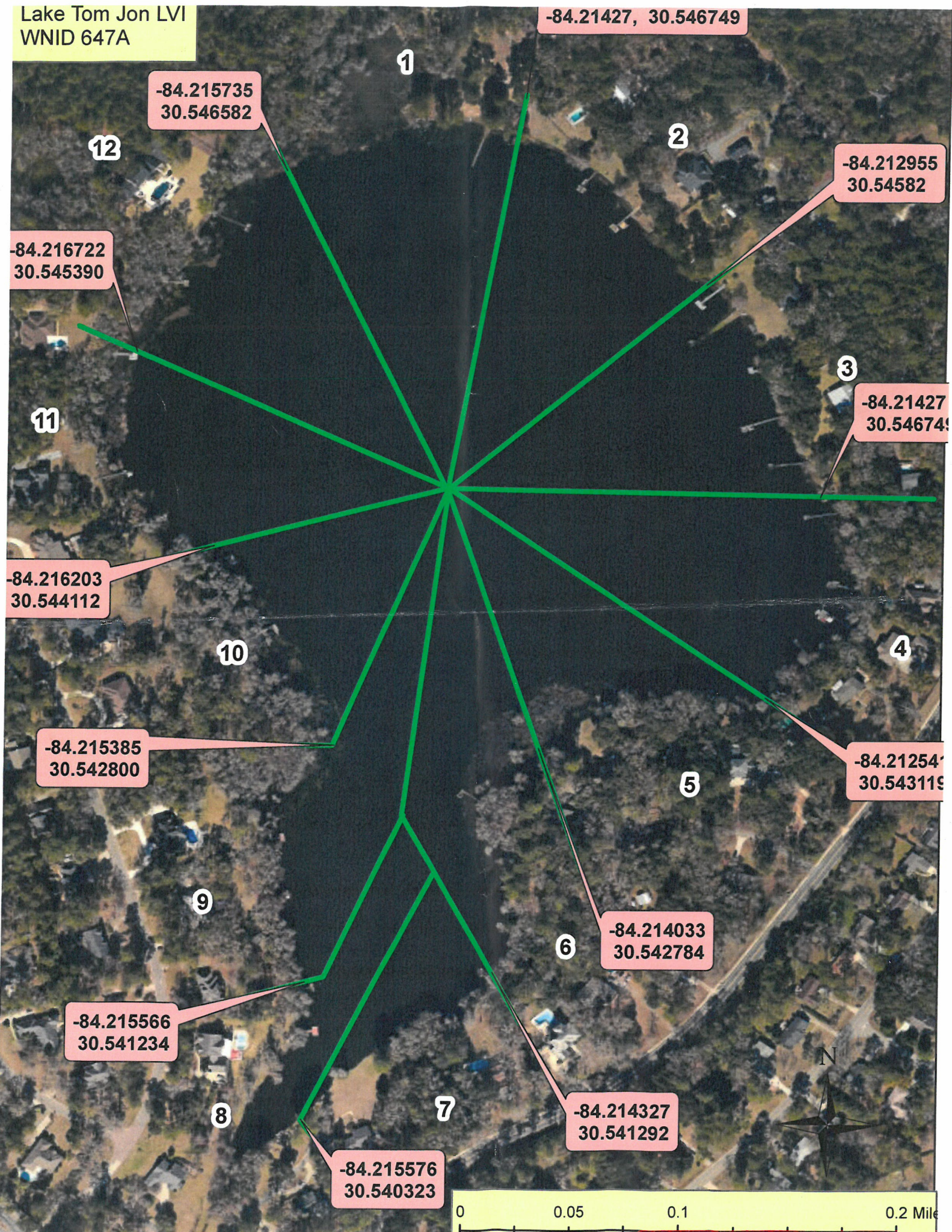
Cm 11-2-18

Macrophyte QC Report

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4	SBS
<i>Utricularia gibba</i> <i>cm</i>		P			✓

This data has not been fully approved at this time.

Lake Tom Jon LVI
WNID 647A



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

Boldly "X" this box if there is qualified data on this name.

Meter ID: Bio #2

RQ- 2018-10-22-10

Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(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.	Blake Spencer	10/24/19	0710	20.45	9.003	9.01	100	23.7	-	P/F	L/F
ICV	Blake Spencer	10/24/19	0712	20.47	9.003	9.02	100.1	23.7	-	P/F	L/F
CCV	Blake Spencer	10/24/19	1252	22.11	8.727	8.45	96.2	24.7	-	P/F	L/F
CCV										P/F	L/F

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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	10/24/19	0715	180621C	07/2019	1000	1000	P/F	L/F
ICV	Blake Spencer	10/24/19	0716	180621C	07/2019	1000	1001	P/F	L/F
CCV	Blake Spencer	10/24/19	1257	1805F81	05/2020	100	104	P/F	L/F
CCV								P/F	L/F

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.	Blake Spencer	10/24/19	0722	180521E	01/2020	7.0	7.00	0.6	P/F	L/F
Calibr.	Blake Spencer	10/24/19	0726	180510B	05/2019	4.0	4.00	173.4	P/F	L/F
Calibr.	Blake Spencer	10/24/19	0729	180403D	10/2019	10.0	9.97	-161.1	P/F	L/F
ICV	Blake Spencer	10/24/19	0731	180403D	10/2019	10.0	9.96	-161.0	P/F	L/F
CCV	Blake Spencer	10/24/19		180510B	05/2019	4.0	3.97	173.1	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ; mV pH 4 Range $+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Blake Spencer	10/24/19	0733	0.00	0.00	P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Project ID: SMP

Collected By: Blake Spencer & Curtis Musson

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Ju niper Creek Upstream of Ju niper Creek Rd		Date 10/24/18 Time 0901		Date		(See pg 2)	
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		30.531		Temp (C) 18.12		pH 6.12		Sample Depth 0.3	
Longitude		-84.736		Salinity (ppt) 0.04		ft		Sp. Conductance (umho/cm) 86	
Location		Lake Tom John Middle		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		← Field/WIN ID		Date 10/24/18 Time 1133		Date			
WIN/STORET #		G1WA0043		Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude		30.54484		Temp (C) 23.32		pH 7.25		Sample Depth 0.3	
Longitude		-84.21478		Salinity (ppt)		ft		Sp. Conductance (umho/cm) 54	
Location				Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		Date			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude				Temp (C)		pH		Sample Depth	
Longitude				Salinity (ppt)		ft		Sp. Conductance (umho/cm)	
Location				Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		Date			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude				Temp (C)		pH		Sample Depth	
Longitude				Salinity (ppt)		ft		Sp. Conductance (umho/cm)	
Location				Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date		Date			
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude				Temp (C)		pH		Sample Depth	
Longitude				Salinity (ppt)		ft		Sp. Conductance (umho/cm)	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	10/24/18 1328	Hand Delivered	1		10.24.18/12.28

Group: A	Bottle Type: P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type: BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
CHLSUITE-W						
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
ECOLI-18QT						
Group: A	Bottle Type: P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
W-ICP W-ICPMS						
Group: A	Bottle Type: P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type: P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	2
W-PO4-F						

Cooler Packing Worksheet for Request: RQ-2018-10-22-10

Group 1 LVIs

Ship Cooler On: 10/19/2018

Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, Metals, E. coli x3

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3

Preservation: ICE

Lot #

00071233

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 3

Preservation: ICE

Lot #

1219444

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # 418038

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00072044

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 3 Preservation: FILTER-ICE

Lot # 00066993

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: SR Number of Coolers: 2 Date: 10-17-18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-10-22-10