FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified? Yes / No

STORET Station Name: Lake Monkey Business Middle **Date:** 07/20/2016 (mm/dd/yyyy)

STORET Station ID: G1WA0036 **WBID:** 546C **Latitude:** 30.60779 (Decimal Degrees)

County: Leon **RQ -** RQ-2016-07-18-47 **ORG ID:** 21FLWQA **Longitude:** -84.23076 (Decimal Degrees)

Receiving Body of Water: LAKE IAMONIA **Field ID:** G1WA0036 -07202016

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson	X	X		X	X
Ben Ralys	X		X		

Sampling Equipment

☐ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other

Equipment ID

Collection Method

☐ Wading
☐ From Shore
☐ Other (note below)

Via Boat
☒ Canoe/Kayak
☐ Electric Motor
☐ Gasoline Motor

Water Level: Dry / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# Biology 2 **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. (C⁰)
(EST)	9:55	0.3	1.91	7.00	95.0	7.15	0.03	1.78	76	31.42
CEN	10:00	1.41		6.91	93.6	7.23	0.03		76	31.33

Biological Samples Collected: None (HA) SCI LVS RPS (LVI) Other

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 ☑ H_2SO_4	SA-6133010	05/12/2017	☑ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <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			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Sulfuric Acid SA-6133010 EXP: 05/12/17 Warning! See SDS

Place Sticker(s) Here (if applicable)

Notes:

SBIO_ID: 76532
Macrophyt_ID: 9926

G1WA0036 20 July 2016
Lake Monkey Business Middle

Signature: **Date:** 7/20/16

Field Parameters Entered into LIMS: Cn 7-22-2016 (Initials/Date) **Field Parameters QC in LIMS:**

Date Migrated to STORET: (Initials/Date) **Field Sheets Scanned/Saved:** Cn 7-28-2016 (Initials/Date)

SBIO_ID: 76532

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

STORET STATION NUMBER: GIWAC036	DATE (M/D/Y): 07/20/2016	LAKE NAME: Lake Menkin business	FIELD ID / NAME: GIWAC036-07202016
ECO-REGION: Tallahassee Hills	COUNTY: Leon	SAMPLING LOCATION/DESCRIPTION: Lake Menkin business Middle	LAKE SIZE: 90 Acres

PARAMETER				
HYDROLOGY	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 ☒
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☐ X	Dark, discolored water (water color 20 PCU or higher) ☒ X	Visibility extremely reduced due to high color ☐

	Optimal					Suboptimal					Marginal					Poor				
Secchi 12	Secchi >3 m		Secchi(m)			3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1
	Or VOB	20	19	18	17	16	15	14	13	(12)	11	10	9	8	7	6	5	4	3	2	1
Vegetation Quality 13	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa					Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants					Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats					Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)				
	20	19	18	17	16	15	14	(13)	12	11	10	9	8	7	6	5	4	3	2	1
Stormwater Inputs 6	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				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
Bottom Substrate Quality 3	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present					Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present					Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom					Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	(3)	2	1
Lakeside Adverse Human Alternations 6	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)					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)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
Upland Buffer Zone 4	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
Adverse Watershed Land Use 9	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	53	COMMENTS:

ANALYSIS DATE: 7/20/2016	ANALYST: Curtis Musson	SIGNATURE: Curtis Musson

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SBID

SAMPLE ID: 76532 | MACROPHYTE ID: | LATITUDE: 30.60779
COUNTY: Leon | STORET #: G1WA0036 | LONGITUDE: -84.23076
DATE: 7-20-2016 | TIME: 9:55 EST | SAMPLING AGENCY: FDEP
SITE NAME: LAKE Monkey Business | WBID: 546C
FIELD ID/NAME: G1WA0036-07202016 | LAKE SIZE: 90 acres | RQ: 2016-07-18-47

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Reservoir

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
28.8	17.1	0.2	0.4	49.2	0.9	1.3	2.1

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) **LDI:** 4.5

Land Use Source & Year:

Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy

Artificially Impounded ☒ Yes ☐ No

STORMWATER INPUTS 6	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				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
LAKESIDE ALTERATIONS 6	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)				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	(6)	5	4	3	2	1
BUFFER ZONE 4	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 ☒ pH<2 ☐ No
Color Sample Taken? ☒ Yes ☐ No Lot # 6133010 Exp. Date:
Alkalinity Sample Taken? ☒ Yes ☐ No
Water Level ☐ Low ☒ Normal ☐ High

Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other

Meter Readings:

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:	0.3	31.42	7.15	7.00	95.0	76	0.03
Mid-Depth:	—	—	—	—	—	—	—
Bottom :	1.41	31.33	7.23	6.91	93.6	76	0.03

Meter ID:

Clarity: ☐ Clear ☐ Opaque ☒ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☒ Tannic ☐ Green

SECCHI (M) 1.78 VOB ☐

Total Station Depth (M) 1.91

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): Not observed ☐ Anaerobic

Biological Communities:
LVI Conducted? ☒ Yes ☐ No
Phytoplankton Sample Taken? ☐ Yes ☒ No
Sample Preserved? NA ☐ 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	☒ cm	☒	☐	☐
Exotic Apple Snails	☒	☐	☐	☐

Additional Notes:
Vegetation Management
Grass Carp

Weather Conditions : Clear, Hot, No Precipitation

SAMPLING TEAM: Curtis Musson, Ben Pairs **SIGNATURE:** **DATE:** 7/20/16

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Date:

SPECIES	2	5	8	11	Collected? (√)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.					
Nymphaea odorata					
Nymphoides aquatica					
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitomon				X	
Panicum repens	X	X	X	X	
Paspalidium geminatum					
*Paspalum repens					
Paspalum urvillei	X				
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliottii		X	X	X	
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)					
*Polygonum hydropiperoides					
*Polygonum punctatum					
*Polygonum _____					
Pontederia cordata		X		X	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia Mariana	X				
*Rhynchospora corniculata			X		
*Rhynchospora inundata	X	X	X	X	
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis	X	X			
Sagittaria lancifolia	X	X	X	X	
Sagittaria latifolia	X				

SPECIES	2	5	8	11	Collected? (√)
Salix caroliniana					
Salvinia minima					
Sambucus canadensis					
Sapium sebiferum	X	X	X	X	
Saururus cernuus	X	X	X	X	
Schinus terebinthifolius					
*Schoenoplectus californicus					
*Schoenoplectus pungens					
*Schoenoplectus tabernaemontani (Scirpus validus)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania _____					
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Spirodela polyrhiza					
Taxodium sp.				X	
Thalia geniculata					
Thelypteris palustris					
Triadenum virginicum					
Typha sp.					
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)					
*Utricularia floridana					
*Utricularia foliosa					
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia cornuta					
*Utricularia radiata					
Vallisneria americana					
*Websteria confervoides					
Wedelia trilobata (Sphagneticola trilobata)					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.	X	X			
Zizania aquatica					
Zizaniopsis milacea					
Urvillei					
~~unknown grass (Paspalidium)~~	X				cm
~~purple flower~~	X				cm
Hydrolea quadrivalvis		X	X	X	
Rosa palustris		X			
Iris Pseudacorus		X		X	
~~unknown sedge (Cyperaceae)~~		X			cm
Commelina erecta			X		
Carex joorii			X		
Lycopus virginicus				X	

SBID ID: 76532 **DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET** Macrophyt_ID: 9926

Waterbody: Lake Monkey Business	County: Leon	Date: 7/20/16
Analyst: Curtis Mason, Ben Ralys	Signature:	STORET: GIV40036

Except where noted as "sp." species level identification required. *Genera that may require lab verification*
Plants in bold= FLEPPC invasive exotic.

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.

Lake units sampled (circle one group):
1, 4, 7, 10 — 2, 5, 8, 11 — 3, 6, 9, 12

SPECIES	2	5	8	11	Collected? (√)
Acer rubrum	X	X			
Alternanthera philoxeroides	X	C	X	X	
Andropogon sp.		C			
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana	X	X		X	
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum					
Boehmeria cylindrica		X	X	X	
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisitifolia					
Centella asiatica					
Cephalanthus occidentalis	X		X	X	
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla					
Colocasia esculenta					
*Commelina _____					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei		X			
*Cyperus polystachyos					
*Cyperus odoratus					
*Cyperus surinamensis					
Cyrilla racemiflora					
Decodon verticillatus					
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii		X			
*Eleocharis _____					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena _____					
Fuirena scirpoidea					
Gordonia lasianthus					

SPECIES	2	5	8	11	Collected? (√)
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.	X	X	X	X	
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus	X	X	X	X	
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana BR					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua	X	X	X	X	
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis					
***Ludwigia peruviana**					
*Ludwigia repens					
*Ludwigia _____					
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum	Y	Y	Y	Y	
Micranthemum umbrosum	X	X	X	X	
Mikania scandens	X		X	X	
Mimosa pigra					
Myrica cerifera	X	X	X	X	

Macrophyte QC Report

STORET: G1WA0036
Visit ID: 76532
Macrophyte ID: 9926
LIMS ID:

Sample Date: 7/20/2016
Collector Name: Musson, Curtis
Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4	
Acer rubrum	P	P			CM
Alternanthera philoxeroides	P	C	P	P	CM
Bacopa caroliniana	P	P		P	CM
Boehmeria cylindrica		P	P	P	CM
Carex joorii			P		CM
Cephalanthus occidentalis	P		P	P	CM
Commelina erecta			P		CM
Cyperus lecontei		P			CM
Eleocharis baldwinii		P			CM
Hydrocotyle	P	P	P	P	CM
Hydrolea quadrivalvis		P	P	P	CM
Iris pseudacorus		P		P	CM
Juncus effusus	P	P	P	D	CM
Liquidambar styraciflua	P	P	P	P	CM
Lycopus virginicus				P	CM
Micranthemum glomeratum	P	P	P	P	CM
Mikania scandens	P		P	P	CM
Myrica cerifera	P	P	P	P	CM
Panicum hemitomon				P	CM
Panicum repens	D	C	P	P	CM
Paspalum urvillei	P				CM
Pinus elliottii		P	D	P	CM
Pontederia cordata		P		P	CM
Rhexia					CM
Rhexia mariana	P				CM
Rhynchospora corniculata			P		CM
Rhynchospora inundata	P	P	P	P	CM
Rosa palustris		P			CM
Sagittaria isoetiformis	P	P			CM
Sagittaria lancifolia	P	P	P	P	CM
Sapium sebiferum	P	P	P	P	CM
Saururus cernuus	P	P	P	P	CM
Taxodium				P	CM 7-28-2016

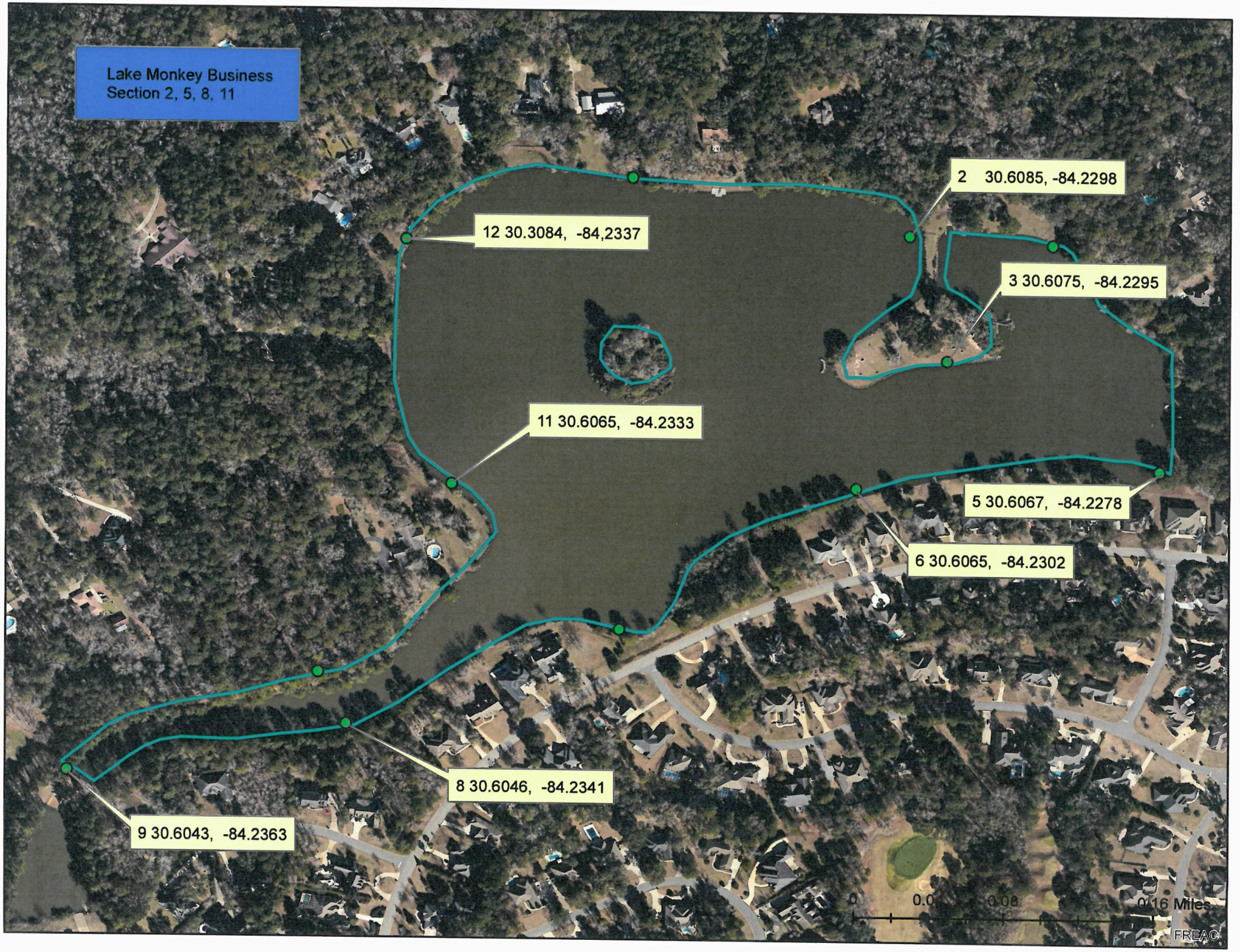
This data has not been fully approved at this time.

Macrophyte QC Report

Taxa Name:	Rep 1	Rep 2	Rep 3	Rep 4
Xyris	P	P		

Cm

This data has not been fully approved at this time.


Lake Monkey Business
Section 2, 5, 8, 11
2 30.6085, -84.2298
12 30.3084, -84,2337
3 30.6075, -84.2295
11 30.6065, -84.2333
5 30.6067, -84.2278
6 30.6065, -84.2302
8 30.6046, -84.2341
9 30.6043, -84.2363
0
0.0
0.08
0.16 Miles
FREAC

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

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

Meter Biology #2 RQ- 2016-07-18-47 Project SMP

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 06/03/2016

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.	Curtis Musson	7/20/16	718	23.4	8.514	8.52	100.0	43.1	—	P	LAB
ICV	Curtis Musson	7/20/16	719	23.4	8.514	8.53	100.2	43.1	—	P	LAB
CCV	Curtis Musson	7/20/16	1356	30.1	7.533	7.68	101.7	44.1	—	P	LAB
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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	7-20-16	721	160330D	04/2017	1000	1000	P	LAB
ICV	Curtis Musson	7/20/16	723	160330D	04/2017	1000	1000	P	LAB
CCV	Curtis Musson	7/20/16	1356	2601533	12/2017	1.00	1.00	P	LAB
CCV									

Report specific conductance as a whole number with no decimal figure. Conductivity Acceptance criteria ± 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.	Curtis Musson	7/20/16	725	160330B	10/2017	7.0	7.00	49.1	P	L
Calibr.	Curtis Musson	7/20/16	728	160330A	04/2017	4.01	4.01	—	P	L
Calibr.	Curtis Musson	7/20/16	730	160330C	10/2017	10.01	10.01	-188.6	P	L
ICV	Curtis Musson	7/20/16	732	160330A	04/2017	4.01	4.02	159.2	P	L
CCV	Curtis Musson	7/20/16	1403	160330C	10/2017	10.01	10.02	-189	P	LAB
CCV										

Report pH with one decimal place; pH Acceptance criteria ±0.2 SU; mV pH7 Range 0±50; mV pH 4 Range +180±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				0.000			

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

Request Number: RQ-2016-07-18-47

Petty Gulf Lake and Lake Monkey Business

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Ben Ralys / Curtis Musson

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location: Lake Monkey Business Middle	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 7-20-16 Time 0955	Eastern / Central	Composite end Date — Time —	Bottle Group(s) (See pg 2): A
Field ID: GIWA0036-07202016	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 7.00 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —		
STORET #: GIWA0036	Temp (C): 31.42	pH: 7.15	Sample Depth: 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm): 76	
Latitude: 30.60779 ☑ dd ☐ dms	Longitude: -84.23076 ☑ dd ☐ dms	Salinity (ppt): 0.03	Comments: SMP LVE		
Location: Petty Gulf Lake	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 7/20/16 Time 12:15	Eastern / Central	Composite end Date — Time —	Bottle Group(s): A
Field ID: GIWA0022-07202016	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 8.55 ☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —		
STORET #: GIWA0022	Temp (C): 32.23	pH: 7.86	Sample Depth: 0.3 ☐ ft ☑ m	Sp. Conductance (umho/cm): 62	
Latitude: 30.58915 ☑ dd ☐ dms	Longitude: -84.22637 ☑ dd ☐ dms	Salinity (ppt): 0.03	Comments: SMP LVE		
Location:	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s):
Field ID:	Matrix (type, e.g., Salt, Fresh, etc):	Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L):		
STORET #:	Temp (C):	pH:	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm):	
Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Salinity (ppt):	Comments:		
Location:	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time	Eastern / Central	Composite end Date Time	Bottle Group(s):
Field ID:	Matrix (type, e.g., Salt, Fresh, etc):	Diss. Oxygen: ☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L):		
STORET #:	Temp (C):	pH:	Sample Depth: ☐ ft ☐ m	Sp. Conductance (umho/cm):	
Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Salinity (ppt):	Comments:		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	7/20/16 13:41	Dropoff		AB	7-20-16 13:41

Group: A Bottle Type: P-1L # of Bottles: 2 Preservative: ICE **Enter Number of Bottles Sent to Lab** 2

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-TDS
W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 2 Preservative: ICE **Enter Number of Bottles Sent to Lab** 2

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 2 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: 2 Preservative: ICE-FLTR **Enter Number of Bottles Sent to Lab** 2

W-PO4-F

Cooler Packing Worksheet for Request: RQ-2016-07-18-47
Petty Gulf Lake and Lake Monkey Business
Ship Cooler On: 7/5/2016 Requester: Benjamin Ralys
Customer/Project: WQAP/SMP Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400

Attn: Benjamin Ralys

Comments:
No preservatives needed.

Bottle Group A: freshwater kit no metals

Requested Analyses:

Bottle Group: A # of Sites: 2

Container ID: P-1L **Qty: 2** **Preservation: ICE** **Lot #** 00064935
Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 2** **Preservation: ICE** **Lot #** 1170333
Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML **Qty: 2** **Preservation: ICE And H2SO4** **Lot #** 00065372
Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description

W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 2** **Preservation: ICE-FLTR** **Lot #** 00065090

Description: Plastic Bottle 125 mL

Analysis	**Description**
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: SK Date: 7-15-16

DEP Cooler ID #(s): 1 Cooler

Kit must also include:

- ✓ Field Sheets
- ✓ Temperature Control Bottle (1 per cooler)
- ___ FedEx Bills, if applicable (1 per cooler)
- ✓ Plastic Bags
- ✓ Zip Ties

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2016-07-18-47