CHECK LIST FOR WATER CHEMISTRY DATA ASSOCIATED WITH LVI BIOASSESSMENT

2Q#: 2016-06-B13-28 EventID# E

Sampling Date: 06/14/2016 Sampling Crew: Judy Ashton, Ashley Salmeron

Site(s)/STORET #: Lake Hiawatha, 2409057

Sonde: (Pass)/ failed CCV
Parameter(s): _____

STORET /LIMS:

☐ 1. Spread Sheet (LIMS Input) SC / 06/20/2016
Initials Date

☐ 2. QC 1 _____ / _____ ☐ 3. QC 2 _____ / _____
Initials Date Initials Date

☐ 4. SIM File Generated _____ / _____
Initials Date

☐ 5. STORET Upload _____ / _____
Initials Date

Biology:

SBIO ID# _____
VPDB ID# _____

☐ 6. **Site and Event established in SBio?**

☐ 7. Habitat Data and YSI Entered Into SBIO _____/_____
Initials Date

☐ 8. Habitat Data and YSI QC _____/_____
Initials Date

☐ 9. SBio data marked complete _____/_____
Initials Date

☐ 10. Macrophyte Data Entered into VPDB _____/_____
Initials Date

☐ 12. Field Paperwork Filed In Biology Lab _____/_____
Initials Date

☐ 13. Macrophyte Data QC ____/____ 11. Macrophyte Data Marked Complete ____/____

A-KIT

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

Data Qualified? Yes / No

STORET Station Name: LAKE HIAWATHA Date: 6-14-16 (mm/dd/yyyy)

STORET Station ID: G1SW0017 / 24040057 Latitude: 28.170111 N (Decimal Degrees)

WBID: 1464V RQ - 2016-06-13-28 ORG ID: 21FLTPA Longitude: 82.574833 W (Decimal Degrees)

Receiving Body of Water: — Field ID: G1SW0017 County: Hillsborough

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Judy Ashton		X		X	X
Ashley Salmeron	X		X		

Sampling Equipment

- [X] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [X] Syringe
- [ ] Other
- [ ] Pole

Equipment ID

Collection Method

- [ ] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [X] Canoe/Kayak
- [X] Electric Motor
- [ ] Gasoline Motor

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

Matrix: (Fresh) / Marine / DI

Meter ID# YSI Pon

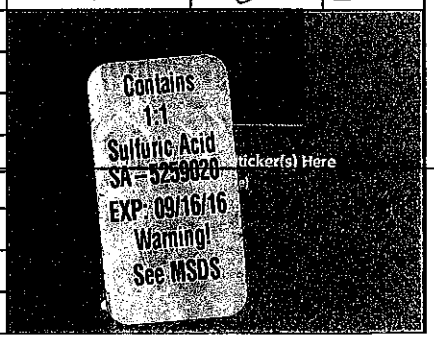
Photos: (Yes) / No

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)	1130	0.3	5.4	7.7	102	6.7	0.07	1.8	143	31.2
CEN		4.9		0.6	8	6.4	0.7		145	27.9

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

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	↓	↓	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3	↓	↓	[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
BOD	[ ] BOD-UNIN	[ ] Ice			
Physical/Aggregate (Kit A)	[X] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[X] Ice			
Physical/Aggregate (Kit B)	[ ] 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			
Flow m/s	"J" Qualify Flow				



Notes:

RQ-2016-06-13-28
Date: 06/14/16
Time:

G1SW0017

Signature: Ashley Salmeron Date: 06/14/2016

Field Parameters Entered into LIMS: SC 06/20/2016 (Initials/Date) Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date) Field Sheets Scanned/Saved: (Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 67SW0017 | MACROPHYTE ID: | LATITUDE: 28.170111 N
COUNTY: Hillsborough | STORET #: 2404057 | LONGITUDE: 82.574833 W
DATE: 06/14/2016 | TIME: 1100 | SAMPLING AGENCY: FDEP
SITE NAME: Lake Hiawatha | WBID: 1464 V
FIELD ID/NAME: Lake Hiawatha-1 67SW0017 | LAKE SIZE: large | RQ: 2016-06-14-28

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)
20				80			

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)
LDI:
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 16	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 13	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 15	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 # _____ 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	31.2	6.7	7.7	102	143	0.07
Mid-Depth:							
Bottom:	4.9	27.9	6.4	0.6	8	145	0.07
Meter ID:	YSI Jon						

Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid
Color: ☒ Clear ☐ Tannic ☐ Green
SECCHI (M): 1.8
VOB: ☐
Total Station Depth (M): 5.4

Sediment Type: (may check more than one) Sample Taken? ☐ Yes ☒ No
☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated
☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____

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 :
Sunny, super hot / humid, Recent rain/high water levels

SAMPLING TEAM: Ashley Seymour, Judy Ashton | **SIGNATURE:** | **DATE:** 06/14/2016

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

STORET STATION NUMBER: 24040057	DATE (M/D/Y): 06/14/2016	LAKE NAME: Lake Hiawatha		FIELD ID / NAME: GJSW0017
ECO-REGION:	COUNTY: Hillsborough	SAMPLING LOCATION/DESCRIPTION:		LAKE SIZE: Large
PARAMETER				
HYDROLOGY	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates [X]	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) [ ]	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 18	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 (duckweed, 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 16	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 10	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 13	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 15	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 13	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: 103	COMMENTS:

ANALYSIS DATE: 06/14/2016	ANALYST: Judy Ashton, Ashley Salmeron	SIGNATURE:

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

Waterbody: LAKE HIAWATHA | County: | Date: 6-14-16

Analyst: JUDY ASHTON | Signature: Judy C | STORET:

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	1	4	7	10	Collected? (√)
Acer rubrum		X	X	X	
Alternanthera philoxeroides	X	X	X		
Andropogon sp.					
Azolla filiculoides (A. caroliniana)					
Baccharis sp.					
Bacopa caroliniana					
Bacopa monnieri					
Bidens laevis					
Bidens mitis					
Blechnum serrulatum	X	X	X	X	
Boehmeria cylindrica	X	X	X	X	
Brasenia schreberi					
Cabomba caroliniana					
Casuarina equisitifolia					
Centella asiatica	X	X		X	
Cephalanthus occidentalis					
Ceratophyllum demersum					
Chara sp.					
Cladium jamaicense				X	
Cliftonia monophylla					
Colocasia esculenta	X	X	X	X	
*Commelina	X				
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos	X				
*Cyperus odoratus	X				
*Cyperus surinamensis					
Cyrilla racemiflora					
Decodon verticillatus					
Diodia virginiana	X				
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri					
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes					
*Eleocharis baldwinii					
*Eleocharis	X				
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium	X				
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus			X	X	

SPECIES					Collected? (√)
Habenaria repens					
Hydrilla verticillata					
Hydrocotyle sp.	X	X	X		
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus	X				
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana					
Leersia hexandra					
Landoltia punctata (Spirodela punctata)					
Lemna sp.			X		
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia					
Limnophila sessiliflora					
Liquidamber styraciflua					
*Ludwigia arcuata					
*Ludwigia leptocarpa					
*Ludwigia linearis					
*Ludwigia octovalvis				X	
***Ludwigia peruviana**	X	X	X	X	
*Ludwigia repens					
*Ludwigia					
Luziola fluitans (Hydrochloa carolinensis)					
Lyonia lucida					
Magnolia virginiana					
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum	X				
Micranthemum umbrosum					
Mikania scandens	X	X	X		
Mimosa pigra					
Myrica cerifera		X	X	X	
DRYMARIA CORDATA					
UNKNOWN # FIMBRISTYLIS puberula		X			
MOSS BISHOP Philonotis c.		X			
CANNA (RED) - NONNATIVE			X		
SWORD FERN - Nephrolepis			X		
FROG FRUIT - Phyla nodiflora			X		
COW PEA - vigna intcola				X	
VITIS			X		X
+ PINK EGGS - ALL SLICES					

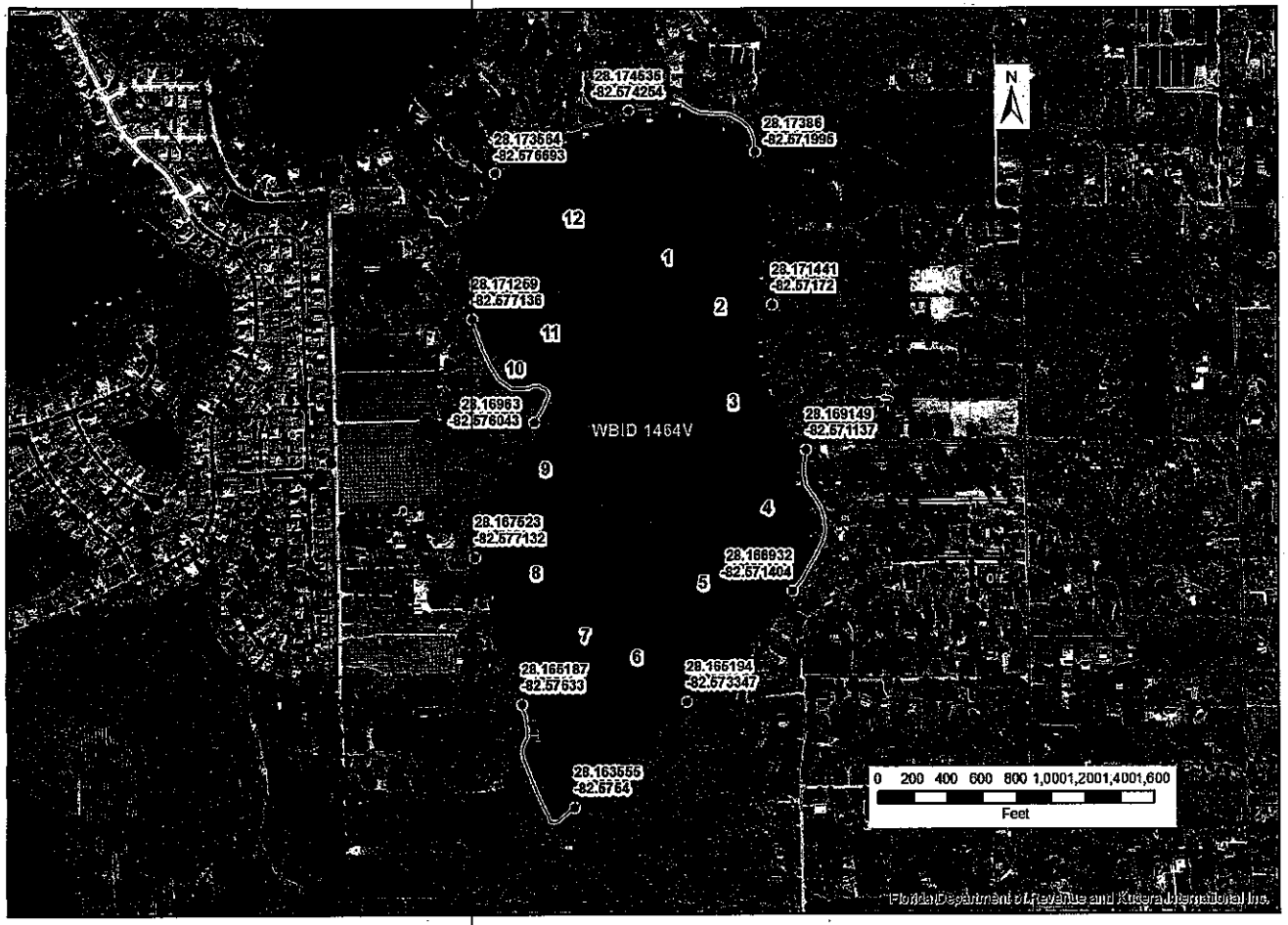
Site: LAKE HIAWATHA

Date:

SPECIES	Collected? (√)	SPECIES	Collected? (√)
Myriophyllum aquaticum		Salix caroliniana	
*Myriophyllum heterophyllum		**Salvinia minima**	
*Myriophyllum laxum		Sambucus canadensis	
*Myriophyllum pinnatum		**Sapium sebiferum**	
Myriophyllum spicatum		Saururus cernuus	
*Najas filifolia		**Schinus terebinthifolius**	
*Najas guadalupensis		*Schoenoplectus californicus	
*Najas minor		*Schoenoplectus pungens	
Nelumbo lutea		*Schoenoplectus tabernaemontani (Scirpus validus)	
Nitella spp.		Scirpus cubensis (Oxycaryon cubense)	
Nuphar sp.		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		Taxodium sp.	
Panicum hemitomon		Thalia geniculata	
Panicum repens		Thelypteris palustris	
Paspalidium geminatum		Triadenum virginicum	
*Paspalum repens		Typha sp.	
Paspalum urvillei		**Urochloa mutica (Brachiaria mutica)**	
Peltandra sp.		*Utricularia gibba (U. biflora)	
Persea sp.		*Utricularia floridana	
Pennisetum purpureum		*Utricularia foliosa	
Phragmites australis		*Utricularia inflata	
Pinus elliottii		*Utricularia purpurea	
Pistia stratioides		*Utricularia cornuta	
Pluchea sp.		*Utricularia radiata	
*Polygonum glabrum (densiflorum)		Vallisneria americana	
*Polygonum hydropiperoides		*Websteria confervoides	
*Polygonum punctatum		**Wedelia trilobata (Sphagneticola trilobata)**	
*Polygonum		Wolffiella spp.	
Pontederia cordata		Woodwardia virginica	
*Potamogeton diversifolius		Xyris sp.	
*Potamogeton illinoensis		Zizania aquatica	
*Potamogeton pusillus		Zizaniopsis milacea	
*Potamogeton pectinatus (Stuckenia pectinatus)			
Proserpinaca pectinata		HORSETAIL - LYCOPUS RUGELIUS	
*Rhexia		FERN - THELYPTERIS INTERRUPTA	
*Rhynchospora corniculata		GINGER	
*Rhynchospora inundata		~~GRASS SKELETON~~	
Rhynochospora tracyi			
Ricciocarpus natans			
Sabal palmetto			
Sacciolepis striata			
*Sagittaria filiformis			
*Sagittaria graminea			
*Sagittaria isoetiformis			
Sagittaria lancifolia			
Sagittaria latifolia			

1, 4, 7, 10

LVI Map for LAKE HIAWATHA, WBID 1464V



Current Date: 1/7/2015

Date Saved: 9/29/2014

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FedEx Tracking Number **8100 1917 9063**

MUR 1

Form ID No. 0215

1 From *Please print and press hard.*

Date 06/14/2016 Sender's FedEx Account Number

Sender's Name FDEP Phone (813) 470-5770

Company

Address 13051 N Telecom Pkwy Dept./Floor/Suite/Room

City Temple Terrace State FL ZIP 33637

2 Your Internal Billing Reference
First 24 characters will appear on invoice.

3 To

Recipient's Name SAMPLE RECEIVING Phone (850) 245-8085

Company FLORIDA DEP/CHEMISTRY SECTION

Address 2600 BLAIRSTONE RD Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

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Use this line for the HOLD location address or for continuation of your shipping address.

City TALLAHASSEE State FL ZIP 32399

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☐ Hold Saturday — FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

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☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected.

☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

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6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide.

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Does this shipment contain dangerous goods?

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☒ No ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Restrictions apply for dangerous goods — see the current FedEx Service Guide. ☐ Cargo Aircraft Only

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611

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Request Number: RQ-2016-06-13-28

1474W, 1464W

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: SW-DIST

Project ID: SMP

Requester: Judy Ashton

Field Report Prepared By: Judy Ashton

Collected By: Judy Ashton, A. Salmeron

Sampling Agency: FDEP

Location: LAKE DEAS LADY	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6-14-16 Time 9:00	Eastern / Central	Composite end Date	Time	Bottle Group(s) (See pg 2)					
Field ID: RQ-2016-06-13-28 Date: 06/14/2016 Time: G1SW0021	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 5.8 mg/L 69 % sat		Total Res. Chlorine (mg/L)						
STORE	Temp (C) 29.4	pH 6.4	Sample Depth 0.3 ☐ ft ☒ m		Sp. Conductance (umho/cm) 154						
Latitude ☐ dd ☐ dms	Salinity (ppt) 0.07	Comments: RECENT RAIN - HIGH WATER LEVELS									
Location: LAKE HIAWATHA	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/14/16 Time 1130	Eastern / Central	Composite end Date	Time	Bottle Group(s)					
Field ID: RQ-2016-06-13-28 Date: 06/14/16 Time: G1SW0017	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 7.7 mg/L 102 % sat		Total Res. Chlorine (mg/L)						
STORET #	Temp (C) 31.2	pH 6.7	Sample Depth 0.3 ☐ ft ☒ m		Sp. Conductance (umho/cm) 143						
Latitude ☐ dd ☐ dms	Salinity (ppt) 0.07	Comments: RECENT RAIN - HIGH LAKE LEVELS									
Location: LAKE ANN (PARKER)	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6-14-16 Time 1340	Eastern / Central	Composite end Date	Time	Bottle Group(s)					
Field ID: RQ-2016-06-13-28 Date: 06/14/2016 Time: G1SW0018	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen 8.7 mg/L 117 % sat		Total Res. Chlorine (mg/L)						
STORET #	Temp (C) 32.0	pH 7.3	Sample Depth 0.3 ☐ ft ☒ m		Sp. Conductance (umho/cm) 166						
Latitude ☐ dd ☐ dms	Salinity (ppt) 0.08	Comments: RECENT RAIN - HIGH WATER LEVELS									
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
Judy Ashton	6-14-16 5:00	FED EX	1		