

LVI

Site Name Lake Cypress @ Center Sample Date 5/15/19
 WBID 3180 A WIN ID 62CE0166 RQ 2019-05-13-40

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	LMD 5/20/19	MKL 5/21/19
Create SBIO station visit 79628	LMD 5/20/19	n/a
Vascular Entry (add LIMS ID)	LMD 5/20/19	MKL 5/22/19
Lake Observation Sheet Entry	LMD 5/20/19	MKL 5/22/19
Authorize SBIO data	MKL 5/22/19	n/a
Scan all sheets to 21FLCEN folder	LMD 5/24/2019	n/a
LIMS/WIN migration		n/a
File in cabinet		n/a

Comments/notes:

Please include the
 other (sections 7 & 10)
 plant index sheet in
 the scanned packet
 MKL



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Lake Cypress @ Center

Date: 05/15/2019

(mm/dd/yyyy)

WIN/ Field ID: G4CE0166

WBID: 3180A

Latitude: 28.07794385

(Decimal Degrees)

County: Osceola

ORG ID: 21FLCEN

Longitude: -81.32426703

(Decimal Degrees)

Receiving Body of Water: _____

RQ-2019- 05-13-40

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
<u>Mike Linger</u> <u>Drew Liddick</u> <u>Mike Drennon</u>					☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole			
										☐ Carboy	☒ Syringe				
										☐ Dipper	☐ Other				
										Depth Measured with <u>Secchi Disk Line / Meter</u>					
Equipment ID <u>Leadfoot, Knothead, Crusty/Bucket, Mucky/Trap</u>										Collection Method					
					☐	☐	☐	☐	☐	☐ Wading	☐ Canoe/Kayak				
										☐ From Shore	☐ Electric Motor				
										☐ Other	☐ Gasoline Motor				
Water Level: <u>Dry/ Pooled/ Low / Normal / High / Flooded</u>					Meter ID# <u>Scud Rocket</u>					Matrix: <u>Fresh</u> / Marine / DI					
Photos: Yes / <u>No</u>					Flow: <u>No Flow</u> / Intestinal / Flowing / <u>NA</u>					Tide: <u>Rising/ Falling/ Slack/ NA</u>			Tide Times: High Low		
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)	<u>1142</u>	<u>1.4</u>	<u>0.3</u>	<u>0.7</u>	<u>9.58</u>	<u>119.1</u>	<u>9.22</u>	<u>0.06</u>	<u>172.6</u>	<u>26.4</u>					
CEN															
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS <u>LVI</u> Other:															
SBIO ID Numbers: SBIO-ID: <u>79628</u> HA-ID: RPS-ID: Macrophyte-ID: <u>11302</u> LIMS#: <u>2086938</u>															
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		<u>SA9010030</u>		<u>4/10/20</u>		☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP					☐ Ice ☐ HNO3						☐ <2		
Filtered Nutrients		☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter					☐ Ice		<u>13615055</u>						
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					☐ Ice								
Molecular		☐ PCR-FILTER ☐ PCR-BacR ☐ PCR-GULL2					☐ Ice								
		☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD													
Tracers		☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice								
Pesticides		☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice								
		☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Other								
Phytoplankton		☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice								

Notes:

LVI event w/ SE-ROL & Tally

WIN ID / Field ID →

Lake Cypress @ Center



G4CE0166

Signature: [Signature]

Date: 5/15/19

LIMS EVENT ID: CEN-DIST-2019-05-16-03

Enter Field Parameters, Verify Station ID in LIMS DMT: LMD 5/20/19

QC Station ID, Field Parameters in LIMS DMT: MKL 5/21/19

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

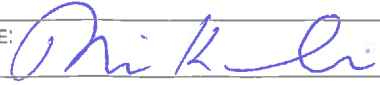
(Initials/Date)

TEAM 4

TR
NA
KB
AO

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

STORET STATION NUMBER: G4CE0166	DATE (M/D/Y) 05/15/2019	LAKE NAME Cypress		FIELD ID / NAME:		
ECO-REGION:	COUNTY:	SAMPLING LOCATION/DESCRIPTION: @ Center		LAKE SIZE: Large		
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) ☐		
				Visibility extremely reduced due to high color ☒		
	Optimal	Suboptimal		Marginal		
Secchi	Secchi >3 m Or VOB	Secchi(m)		0.5 0.4 0.3 0.2 0.1		
7	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 4	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		
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 4	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		
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 4	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		
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Lakeside Adverse Human Alterations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 4	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected		Many structures, roads or other human disturbance visible (50%-70%) lakeside affected		
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 10	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		
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
Adverse Watershed Land Use	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 15					
	20 19 18 17 16	15 14 13 12 11		10 9 8 7 6		
TOTAL SCORE	48	COMMENTS:				

ANALYSIS DATE: 5/15/19	ANALYST: Mike Linger	SIGNATURE: 
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DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 79628 MACROPHYTE ID: _____ LATITUDE: 28.07794385
COUNTY: Osceola STORET #: 64CE0166 LONGITUDE: -81.32426703
DATE: 5/15/19 TIME: 1147 SAMPLING AGENCY: FDEP
SITE NAME: Lake Cypress WBID: 3180A
FIELD ID/NAME: 64CE0166 LAKE SIZE: Large RQ: 2019-05-13-40

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) :										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)											
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)														
☐	☐	☒	☐	☐	☐	☐	☐														
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy										Artificially Impounded ☒ Yes ☐ No											
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☒ Heavy										Land Use Source & Year:											
STORMWATER INPUTS		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										
<u>4</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS		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)										
<u>4</u>		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE		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										
<u>10</u>		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 #: _____ Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____							
Meter Readings: Top: <u>0.3</u> <u>26.4</u> <u>9.22</u> <u>9.58</u> <u>119.1</u> <u>172.6</u> <u>0.06</u> Mid-Depth: _____ Bottom: _____								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>Sund Rocket</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): _____								SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>1.4</u> VOB ☐							
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: Periphyton ☐ Absent ☐ Rare ☒ Common ☐ Abundant Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☐ ☐ ☒ ☐								Additional Notes:							
Weather Conditions : <u>80's clear</u>															
SAMPLING TEAM: <u>Mike Linger, Mike Drennan, Drew Liddick, Terry Riordan, Natalie Ayala, Kristene Taylor</u>										SIGNATURE: <u>Mike Linger</u>			DATE: <u>5/15/19</u>		

Waterbody: <u>Lake Cypress Ashley O'neal</u>		County: <u>Osceola</u>		Date: <u>5/15/19</u>							
Analyst: <u>Terry Riordan, Natalie Ayala, Kristine Taylor</u>		Signature: <u>[Signature]</u>		STORET: <u>64CE0166</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						Fraxinus					
Alternanthera philoxeroides						Fuirena scirpoides					
Amaranthus australis						Gordonia lasianthus					
Andropogon sp.						Habenaria repens					
Azolla filiculoides (A. caroliniana)						Hibiscus coccineus					
Baccharis sp.						Hibiscus grandiflora					
Bacopa caroliniana						Hydrilla verticillata	D	\	/	C	
Bacopa monnieri						Hydrocotyle sp.					
Bidens alba						Hygrophila polysperma					
Bidens laevis						Hymenocallis sp.					
Bidens mitis						*Hypericum fasciculatum					
Blechnum serrulatum						*Hypericum hypericoides					
Boehmeria cylindrica						*Hypericum myrtifolium					
Brasenia schreberi						Ilex cassine					
Cabomba caroliniana						Ipomoea aquatica					
Canna						Ipomoea sagittata					
Centella asiatica						Itea virginica					
Cephalanthus occidentalis						Juncus effusus	\				
Ceratophyllum demersum	/	/				*Juncus marginatus					
Chara sp.						*Juncus megacephalus					
Cicuta maculata						Juncus repens					
Cinnamomum camphora						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Colocasia esculenta						Leersia hexandra					
*Commelina						Landoltia punctata (Spirodela punctata)					
Crinum americanum						Lemna sp.					
*Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus						Limnobia spongia					
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua					
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus						*Ludwigia grandiflora	/	/	/	/	/
*Cyperus surinamensis						*Ludwigia hexapetala	/	/	/	/	/
Cyrtilla racemiflora						*Ludwigia leptocarpa					
Decodon verticillatus						Ludwigia (native)					
Diodia virginiana						*Ludwigia octovalvis					
*Echinochloa crus-galli						*Ludwigia peruviana					
*Echinochloa muricatum						*Ludwigia repens					
Echinochloa walteri						Ludwigia suffruticosa					
Eclipta prostrata (E. alba)						Luziola fluitans (Hydrochloa carolinensis)					
Eichhornia crassipes	/	/	/	/		Magnolia virginiana					
*Eleocharis <u>interstincta</u>	/				①	Mayaca fluviatilis					
Eleocharis cellulosa						Melaleuca quinquenervia					
*Eleocharis elongata						Micranthemum glomeratum					
Eleocharis equisetoides						Micranthemum umbrosum					
Eleocharis interstincta						Mikania scandens					
Eleocharis submersed viviparus						Mimosa pigra					
*Eriocaulon compressum						Myrica cerifera					
*Eriocaulon decangulare											
Eupatorium capillifolium	/										

MKL

Sections 7+10: Mike Linger, Drew Liddick, Mike Drennan

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Cypress Lake</u>					Date: <u>5/15/19</u>						
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	Collected? (✓)
Myriophyllum aquaticum				✓		<i>Salix caroliniana</i>				✓	
* <i>Myriophyllum heterophyllum</i>						Salvinia minima	✓			✓	
* <i>Myriophyllum laxum</i>						<i>Sambucus canadensis</i>					
* <i>Myriophyllum pinnatum</i>						Sapium sebiferum					
Myriophyllum spicatum						<i>Saururus cernuus</i>					
* <i>Najas filifolia</i>						Schinus terebinthifolius					
* <i>Najas guadalupensis</i>						* <i>Schoenoplectus californicus</i>	✓	✓	D	✓	(1)
* <i>Najas minor</i>						* <i>Schoenoplectus pungens</i>					
<i>Nelumbo lutea</i>	✓			✓		* <i>Schoenoplectus tabernaemontani</i> (<i>Scirpus validus</i>)					
<i>Nitella</i> spp.						<i>Scirpus cubensis</i> (<i>Oxycaryon cubense</i>)					
<i>Nuphar</i> sp.	✓	✓		✓		<i>Scirpus cyperinus</i>					
<i>Nymphaea mexicana</i>	✓					* <i>Sesbania punicea</i>	✓				
<i>Nymphaea odorata</i>						<i>Solidago</i> sp.					
<i>Nymphoides aquatica</i>						<i>Sparganium americanum</i>					
<i>Nyssa sylvatica</i> var. <i>biflora</i>						<i>Spartina bakeri</i>					
<i>Orontium aquaticum</i>						<i>Spirodela polyrrhiza</i>					
<i>Osmunda cinnamomea</i>						<i>Taxodium</i> sp.					
<i>Osmunda regalis</i>						<i>Thalia geniculata</i>				✓	
<i>Panicum hemitomon</i>			✓			<i>Thelypteris interrupta</i>					
Panicum repens	NA	✓		✓		<i>Thelypteris palustris</i>					
<i>Paspalidium geminatum</i>	✓	✓		✓		<i>Triadenum virginicum</i>					
* <i>Paspalum repens</i>						<i>Typha</i> sp.	✓	✓		✓	C
<i>Paspalum urvillei</i>						Urochloa mutica (<i>Brachiaria mutica</i>)					
<i>Peltandra</i> sp.						* <i>Utricularia gibba</i> (<i>U. biflora</i>)					
<i>Persea</i> sp.						* <i>Utricularia foliosa</i>					
Pennisetum purpureum						* <i>Utricularia inflata</i>					
<i>Phragmites australis</i>						* <i>Utricularia purpurea</i>					
<i>Pinus elliotii</i>						* <i>Utricularia radiata</i>					
Pistia stratioides		✓				* <i>Utricularia resupinata</i>					
<i>Pluchea</i> sp.						<i>Vallisneria americana</i>	✓		✓	✓	
* <i>Polygonum glabrum</i> (<i>densiflorum</i>)		✓		✓		<i>Vitis</i> sp.					
<i>Polygonum hirsutum</i>						* <i>Websteria confervoides</i>					
* <i>Polygonum hydropiperoides</i>						Wedelia trilobata (<i>Sphagneticola trilobata</i>)					
* <i>Polygonum punctatum</i>				✓		<i>Wolffiella</i> spp.					
* <i>Polygonum</i> sp.	✓					<i>Woodwardia virginica</i>					
<i>Pontederia cordata</i>	✓	✓		✓		<i>Xyris</i> sp.					
* <i>Potamogeton diversifolius</i>						<i>Zizania aquatica</i>					
* <i>Potamogeton illinoensis</i>				✓		<i>Zizaniopsis milacea</i>					
* <i>Potamogeton pusillus</i>						<i>Eriochloa</i>	✓				
* <i>Potamogeton pectinatus</i> (<i>Stuckenia pectinatus</i>)											
<i>Proserpinaca pectinata</i>											
* <i>Rhexia</i>											
* <i>Rhynchospora corniculata</i>											
* <i>Rhynchospora inundata</i>											
<i>Rhynchospora nitens</i>											
<i>Ricciocarpus natans</i>											
<i>Sabal palmetto</i>											
<i>Sacciolepis striata</i>											
* <i>Sagittaria filiformis</i>											
* <i>Sagittaria graminea</i>											
* <i>Sagittaria isoetiformis</i>											
<i>Sagittaria lancifolia</i>	✓	✓		✓							
<i>Sagittaria latifolia</i>											

No Dominant on section 4

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Cypress Lake</u>		County: <u>Osceola</u>		Date: <u>5/15/19</u>					
Analyst: <u>Mike L, Drew L, Mike D</u>		Signature: <u>[Signature]</u>		STORET: <u>64CC0166</u>					
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, <u>7, 10</u>, 2, 5, 8, 11 3, 6, 9, 12					
SPECIES	7			Collected? (✓)	SPECIES	7			Collected? (✓)
Acer rubrum					Fraxinus				
Alternanthera philoxeroides	✓				Fuirena scirpoides				
Amaranthus australis					Gordonia lasianthus				
Andropogon sp.					Habenaria repens				
Azolla filiculoides (A. caroliniana)					Hibiscus coccineus				
Baccharis sp.					Hibiscus grandiflora				
Bacopa caroliniana					Hydrilla verticillata	✓			
Bacopa monnieri					Hydrocotyle sp.				
Bidens alba					Hygrophila polysperma				
Bidens laevis					Hymenocallis sp.				
Bidens mitis					*Hypericum fasciculatum				
Blechnum serrulatum					*Hypericum hypericoides				
Boehmeria cylindrica					*Hypericum myrtifolium				
Brasenia schreberi					Ilex cassine				
Cabomba caroliniana					Ipomoea aquatica				
Canna					Ipomoea sagittata				
Centella asiatica					Itea virginica				
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Cinnamomum camphora					*Juncus scirpoides				
Cladium jamaicense					Lachnanthes caroliniana				
Colocasia esculenta					Leersia hexandra				
*Commelina					Landoltia punctata (Spirodela punctata)				
Crinum americanum					Lemna sp.				
*Cyperus alternifolius (C. involucratus)					Leucothoe racemosa (Eubotrys racemosa)				
Cyperus articulatus					Limnium spongia				
Cyperus haspan					Limnophila sessiliflora				
*Cyperus lecontei					Liquidambar styraciflua				
*Cyperus polystachyos					*Ludwigia arcuata				
*Cyperus odoratus					*Ludwigia grandiflora	✓			
*Cyperus surinamensis					*Ludwigia hexapetala				
Cyrilla racemiflora					*Ludwigia leptocarpa				
Decodon verticillatus					Ludwigia (native)				
Diodia virginiana					*Ludwigia octovalvis				
*Echinochloa crus-galli					*Ludwigia peruviana				
*Echinochloa muricatum					*Ludwigia repens				
Echinochloa walteri					Ludwigia suffruticosa				
Eclipta prostrata (E. alba)					Luziola fluitans (Hydrochloa carolinensis)				
Eichhornia crassipes	✓				Magnolia virginiana				
*Eleocharis					Mayaca fluviatilis				
Eleocharis cellulosa					Melaleuca quinquenervia				
*Eleocharis elongata					Micranthemum glomeratum				
Eleocharis equisetoides					Micranthemum umbrosum				
Eleocharis interstincta					Mikania scandens				
Eleocharis submersed viviparous					Mimosa pigra				
*Eriocaulon compressum					Myrica cerifera				
*Eriocaulon decangulare									
Eupatorium capillifolium	✓								

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Cypress				Date: 5/15/19			
SPECIES	7	10	Collected? (✓)	SPECIES	7	10	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 mexicana				*Sesbania			
Nymphaea odorata				Solidago sp.			
Nymphoides aquatica				Sparganium americanum			
Nyssa sylvatica var. biflora				Spartina bakeri			
Orontium aquaticum				Spirodela polyrhiza			
Osmunda cinnamomea				Taxodium sp.			
Osmunda regalis				Thalia geniculata			
Panicum hemitomon				Thelypteris interrupta			
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 foliosa			
Pennisetum purpureum				*Utricularia inflata			
Phragmites australis				*Utricularia purpurea			
Pinus elliotii				*Utricularia radiata			
Pistia stratioides				*Utricularia resupinata			
Pluchea sp.				Vallisneria americana	✓	✓	
*Polygonum glabrum (densiflorum)	✓			Vitis sp.			
Polygonum hirsutum				*Websteria confervoides			
*Polygonum hydropiperoides				Wedelia trilobata (Sphagneticola trilobata)			
*Polygonum punctatum	✓			Wolffiella spp.			
*Polygonum				Woodwardia virginica			
Pontederia cordata	✓	✓		Xyris sp.			
*Potamogeton diversifolius				Zizania aquatica			
*Potamogeton illinoensis	✓	✓		Zizaniopsis milacea			
*Potamogeton pusillus							
*Potamogeton pectinatus (Stuckenia pectinatus)							
Proserpinaca pectinata							
*Rhexia							
*Rhynchospora corniculata							
*Rhynchospora inundata							
Rhynchospora nitens							
Ricciocarpus natans							
Sabal palmetto							
Sacciolepis striata							
*Sagittaria filiformis							
*Sagittaria graminea							
*Sagittaria isoetiformis							
Sagittaria lancifolia	✓	✓					
Sagittaria latifolia							

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28.101692 -81.322117

28.094065 -81.312497

28.084671 -81.305057

28.073536 -81.302118

28.064847 -81.304413

28.061211 -81.316897

28.060964 -81.329771

28.064170 -81.339957

28.070646 -81.342419

28.080787 -81.342071

28.084438 -81.334412

28.092708 -81.326144

12

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Meters

0 285 570 1140 1710 2280