



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Lake Giles @ Center

Date: 8/31/2020

WIN/Field ID: G4CE0193

WBID: 3168Z4

ENR:

Latitude: 28.53015

County: ORANGE

Org ID: 21FLCEN

Longitude: -81.3342

Receiving Body of Water: Kissimmee River

RQ- 2020-08-31-43

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Leif Boman		x		x	x
☒	Elizabeth Bates	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Secchi	
Secchi Equipment ID: Light	
Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☒ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SHRIMP TRAP			
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:			
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:									
SBIO ID Numbers: SBIO 81748				MACROPHYTE 11748			LIMS 2193266		
Notes:									

Duplicate Sample

Time Zone: EST	Time: N/A	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time: N/A	Field ID: N/A	(Blank Type_DDDMMYYY)
DI Source: N/A	Location: N/A		
DI Type: N/A	Equipment ID: N/A		

LIMS EVENT ID: CEN-DIST-2020-09-01-01	WIN Import ID: 22075
Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 9/11/20	QC Station ID, Field Parameters In LIMS DMT: TR 9/15/20
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets KWM 9/25/20	Migrate Data to WIN: KWM 9/25/20
(Initials/Date)	(Initials/Date)
Verify Data In WIN:	(Initials/Date)



RQ-2020-08-31-43

Customer: WQAP

Project ID: SMP

Collected By: Leif Boman, Elizabeth Bates

Field Report Prepared By: Leif Boman

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0193

Location: Lake Giles @ Center

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPTH)
8/31/2020	12:16 EST	7.84	105.3	30.8	7.64	0.33	1.6 ☐ VOB (S)	8.1	136	0.06

Central Lab please use top row for login purposes

	12:24 EST	0.23	2.8	23.5	6.35	7.677			218	0.1
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Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP Lot # SA9354050 Exp: 12/20/2020	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3* ☐ <2			
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 16930280 Syringe Lot # 9149785	☒ Ice		1	A
Chlorophyll (BP-1L)	☒ CHLSUITE-W	☒ Ice		1	A
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☐ E Coli ☐ F Coli ☐ Enterococci ☐ Contract Lab	☐ Ice			
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
		☐ Ice		Aug 31, 2020	

Name:
Leif Boman
Elizabeth Bates

Signature:

Date:

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** 28.53015
COUNTY: Orange **STORET #:** _____ **LONGITUDE:** -81.3342
DATE: 08/31/2020 **TIME:** _____ **SAMPLING AGENCY:** FDPR - CORON
SITE NAME: LAKE GILES **WBID:** 316874
FIELD ID/NAME: _____ **LAKE SIZE:** _____ **RQ:** 2020-08-31-43

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																	
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>3</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>3</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>2</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>0.33</u> <u>30.8</u> <u>7.64</u> <u>7.84</u> <u>105.3</u> <u>136</u> <u>0.06</u> Mid-Depth: _____ Bottom: <u>7.677</u> <u>23.5</u> <u>6.35</u> <u>0.23</u> <u>2.8</u> <u>218</u> <u>0.1</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>SHRIMP TRAP</u>								Clarity: ☒ Clear ☐ Opaque ☐ 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): _____								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 ☐ ☒ ☐ ☐							
Weather Conditions : <u>overcast + stormy</u>								Additional Notes:							
SAMPLING TEAM: <u>Leif Bonan, Liz Bates</u>								SIGNATURE: <u>Leif Bonan</u>							
DATE: <u>08/31/2020</u>															

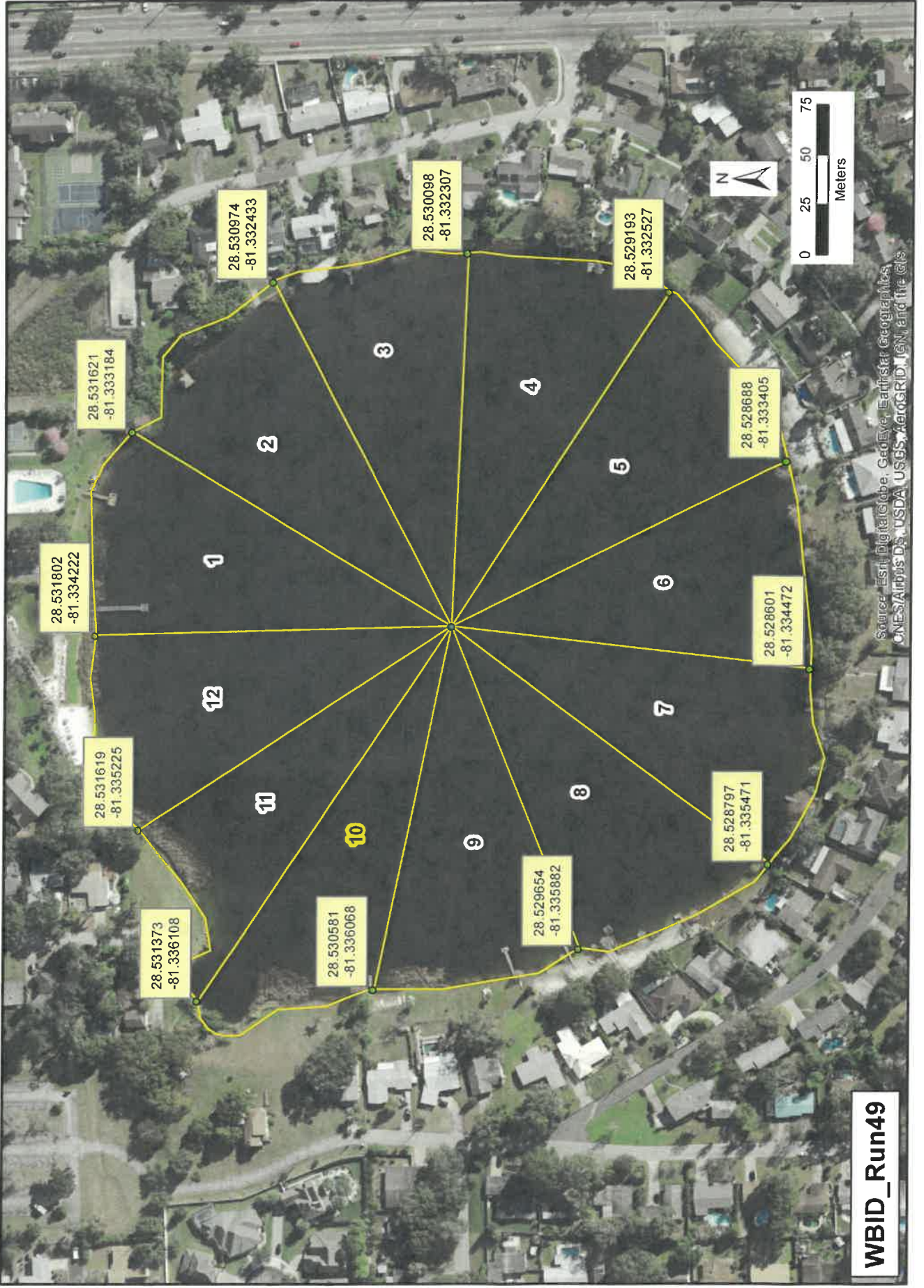
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Giles</u>	County: <u>Orange</u>	Date: <u>08/31/2020</u>			
Analyst: <u>Kif Boman / Liz Bates</u>	Signature: <u>[Signature]</u>	STORET:			
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): 1, 4, 7, 10 <u>2, 5, 8, 11</u> 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	25811	Collected? (✓)	SPECIES	25811	Collected? (✓)
Acer rubrum			Fuirena scirpoides		
Alternanthera philoxeroides	✓	✓	Gordonia lasianthus		
Amaranthus australis			Habenaria repens		
Andropogon sp.			Hibiscus coccineus		
Azolla filiculoides (A. caroliniana)			Hibiscus grandiflora	✓	
Baccharis sp.			Hydrilla verticillata		
Bacopa caroliniana			Hydrocotyle sp.	✓	
Bacopa monnieri			Hygrophila polysperma		
Bidens alba			Hymenocallis sp.		
Bidens laevis			*Hypericum fasciculatum		
Bidens mitis			*Hypericum hypericoides		
Blechnum serrulatum			*Hypericum myrtifolium		
Boehmeria cylindrica			Ilex cassine		
Brasenia schreberi			Ipomoea aquatica		
Cabomba caroliniana			Ipomoea sagittata		
Canna			Itea virginica		
Centella asiatica			Juncus effusus		
Cephalanthus occidentalis			*Juncus marginatus		
Ceratophyllum demersum			*Juncus megacephalus		
Chara sp.			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			Limnium spongia		
Cyperus haspan			Limnophila sessiliflora		
*Cyperus lecontei			Liquidambar styraciflua		
*Cyperus polystachyos			*Ludwigia arcuata		
*Cyperus odoratus			Ludwigia hex-grand-uruguayensis complex**		
*Cyperus surinamensis			*Ludwigia leptocarpa		
Cyrilla racemiflora			Ludwigia (native)	✓	✓
Decodon verticillatus			*Ludwigia octovalvis	✓	✓
Diodia virginiana			*Ludwigia peruviana	✓	✓
*Echinochloa crus-galli			*Ludwigia repens		
*Echinochloa muricatum			Ludwigia suffruticosa		
Echinochloa walteri			Luziola fluitans (Hydrochloa carolinensis)		
Eclipta prostrata (E. alba)			Magnolia virginiana		
Eichhornia crassipes			Mayaca fluviatilis		
*Eleocharis <u>collected</u>	✓	✓	Melaleuca quinquenervia		
Eleocharis cellulosa			Micranthemum glomeratum		
*Eleocharis elongata			Micranthemum umbrosum		
Eleocharis equisetoides			Mikania scandens		
Eleocharis interstincta	✓		Mimosa pigra		
Eleocharis submersed viviparous			Myrica cerifera		
*Eriocaulon compressum			<u>Camphora Cinnamomum</u>	✓	
*Eriocaulon decangulare					
Eupatorium capillifolium	✓				
Fraxinus					

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Giles</u>						Date: <u>8/31/2020</u>					
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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>					
* <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</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 polyrhiza</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	✓	✓	✓	✓		<i>Thelypteris palustris</i>					
<i>Paspalidium geminatum</i>						<i>Triadenum virginicum</i>					
* <i>Paspalum repens</i>						<i>Typha</i> sp.	✓	✓		✓	
<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>						<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>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>											

LVI Map for Lake Giles, WBID 3168Z4



WBID_Run49

