



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: Lake Wales @ Center

Date: 04/19/2016
(mm/dd/yyyy)

STORET Station ID: G4CE0110

Latitude: 27.9015
(Decimal Degrees)

WBID: 1619A RQ: 2016-04-18-29 ORG ID: 2IFCEN

Longitude: -81.5732
(Decimal Degrees)

Receiving Body of Water: Kissimmee River

Field ID: _____

County: Lake Polk

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Natalie Ayala							X		
Terry Riosdon					X				
Leif Riosdon						X	X	X	

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other _____	
Equipment ID _____		

Collection Method	
☐ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☒ Gasoline Motor

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

Matrix: Fresh / Marine / DI

Meter ID# _____ 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	1328	0.3		8.9	106	7.9	0.06		131	24.0
CEN			6.2					1.1		

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 ☒ H2SO4	SA-5259020	9/16	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☒ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-UNIN	☒ 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			
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 _____			

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Preservative Sticker(s) Here
(If Available)

Notes:	Place Label Here (If Available)
Signature: <u>[Signature]</u>	Date: <u>03/04/19/2016</u>

Field Parameters Entered into LIMS: _____ (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)
Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: _____ (Initials/Date)

SAMPLE ID: 76178 MACROPHYTE ID: 9808
COUNTY: Polk STORET #: 04CE0010
DATE: 4/19/2016 TIME: _____
SITE NAME: Lake Wales Center
FIELD ID/NAME: 04CE0110

LATITUDE: 27.9014
LONGITUDE: -81.5732
SAMPLING AGENCY: CGMDIST/21FLCEN
WBID: 1619A
LAKE SIZE: _____ RQ: 2016-04-18-29

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)			LDI: _____		
☐	☐	☐	☐	☒	☐	☐	☐			Land Use Source & Year: _____		
Local Watershed Erosion (select one): ☒ None ☐ Slight ☒ Moderate ☐ Heavy								Artificially Impounded				
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy								☐ Yes ☒ No				
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>1</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			5 4 3 <u>2</u> <u>1</u>	
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>2</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			5 4 3 <u>2</u> <u>1</u>	
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>1</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			5 4 3 2 <u>1</u>	

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water:								Water Odors:		
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No								☒ Normal		
Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____								☐ Sewage ☐ Petroleum ☐ Other _____		
Alkalinity Sample Taken? ☒ Yes ☐ No								Water Surface Oils: ☒ None		
Water Level ☐ Low ☒ Normal ☐ High								☐ Sheen/Slick ☐ Glob ☐ Other _____		
Meter Readings:		Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Clarity:	Color:
Top:		<u>0.3</u>	<u>24.0</u>	<u>7.9</u>	<u>8.9</u>	<u>106</u>	<u>131</u>	<u>0.06</u>	☒ Clear	☒ Clear
Mid-Depth:									☐ Opaque ☐ Turbid	☐ Tannic ☐ Green
Bottom:		<u>5.7</u>	<u>23.6</u>	<u>7.6</u>	<u>8.4</u>	<u>99</u>	<u>130</u>	<u>0.06</u>	☐ Slightly Turbid	
Meter ID: <u>Betty Boop</u>								SECCHI (M) <u>1.0</u> Total Station Depth (M) <u>6.2</u>		
Sediment Type: (may check more than one)								Sediment Odors:		
☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated								☒ Normal ☐ Other (Specify): _____		
☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								☐ Anaerobic		
Biological Communities:				Abundance:				Additional Notes:		
LVI Conducted? ☒ Yes ☐ No				Absent Rare Common Abundant						
Phytoplankton Sample Taken? ☐ Yes ☐ No				Periphyton ☐ ☐ ☒ ☐						
Sample Preserved? ☐ Yes ☐ No				Nuisance Plants ☐ ☐ ☒ ☐						
Lot #: _____ Exp Date: _____				Submersed Plants ☐ ☐ ☒ ☐						
Algal Bloom/Algal ID Sample Taken? Yes No				Exotic Apple Snails ☐ ☐ ☒ ☐						
Active Vegetation Mgmt? ☐ Yes ☐ No ☒ Don't Know										

Weather Conditions:

SAMPLING TEAM: N. Ayala / T. Riordan / L. Boman

SIGNATURE: [Signature]

DATE: 4/19/2016

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

STORET STATION NUMBER: G4CE0110	DATE (M/D/Y) 04/19/2016	LAKE NAME Lake Wale		FIELD ID / NAME: G4CE0110		
ECO-REGION:	COUNTY Polk	SAMPLING LOCATION/DESCRIPTION: Lake Wale @ Center		LAKE SIZE:		
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	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	Secchi > 3 m Or VOB	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		
10	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1		
Vegetation Quality	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 15	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15	Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) 5		
Stormwater Inputs	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 7	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5		
Bottom Substrate Quality	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 18	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15	Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5		
Lakeside Adverse Human Alternations	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 2	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 15	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 10	Highly developed or disturbed (>70% of lakeside affected) 5		
Upland Buffer Zone	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 2	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10	< 29% of shoreline with >18m buffer 5		
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 11					

TOTAL SCORE	COMMENTS:
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ANALYSIS DATE: 4/19/2016	ANALYST: N. Ayda / T. Riordan / L. Boman	SIGNATURE: <i>[Signature]</i>
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SPECIES	1	2	3	4	Collected? (✓)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis	/	/			pac
*Najas minor					
Nelumbo lutea					
Nitella spp.					
Nuphar sp.		/	/	/	
Nymphaea odorata	/	/	/	/	
Nymphoides aquatica					
Nyssa sylvatica var. biflora					
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitomom					
Panicum repens	D	/	D	/	
Paspalidium geminatum		/	/	/	
*Paspalum repens					
Paspalum urvillei	/				
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis					
Pinus elliotii					
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)			/		
*Polygonum hydropiperoides					
*Polygonum punctatum		/			
*Polygonum virginicum	/	/	/	/	NA
Pontederia cordata	/	/	/	/	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia					
*Rhynchospora corniculata					
*Rhynchospora inundata					
Rhynchospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata	/		/	/	OK
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia	/	/	/	/	
Sagittaria latifolia					
Nymphaea sp.	/				
Phyllanthus flor.	/				
Polygonum white	/				NA

Lake Wales 1619A

