



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE ____ OF ____

February 2016

Data Qualified?
Yes / No

STORET Station Name: Lake Copeland @ Center

Date: 05/05/2016
(mm/dd/yyyy)

STORET Station ID: 26011361

Latitude: _____
(Decimal Degrees)

WBID: 3168M RQ: 2016-05-02-77 ORG ID: 21FLCEN

Longitude: _____
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: G4CE0117

County: Orange

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Linger								
Mike Brennan								

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

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

Water Level: Dry / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI			
Meter ID#				Photos: <u>Yes</u> / No <u>NESW</u>			
Tide Falling: Yes / No / <u>NA</u>							

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°)
<u>EST</u>	<u>10:47</u>	<u>0.3</u>	<u>3.6</u>	<u>7.6</u>	<u>94</u>	<u>8.0</u>	<u>0.12</u>	<u>0.8</u>	<u>247</u>	<u>25.9</u>
<u>CEN</u>		<u>3.1</u>		<u>6.8</u>	<u>84</u>	<u>7.7</u>	<u>0.12</u>		<u>248</u>	<u>25.7</u>

Biological Samples Collected: None HA SCI LVS RPS <u>LVI</u> 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			☒ <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 (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS		☒ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY		☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC		☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR		☐ Ice			
Periphyton	☐ ALGAE-ID		☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R		☐ Ice			
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH		☐ Other			

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

Notes:

High winds

Date: 05-05-2016

Time:

RQ-2016-05-02-77

G4CE0117



Field ID ↑↓

STORET ↑↓



26011361

Signature: [Signature]

Date: 5/5/16

Field Parameters Entered into LIMS: 6/3/16 LMD
(Initials/Date)

Date Migrated to STORET: _____
(Initials/Date)

Field Parameters QC in LIMS: _____
(Initials/Date)

Field Sheets Scanned/Saved: _____
(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** 28.52740422
COUNTY: Orange **STORET #:** 26011361 **LONGITUDE:** -81.37469224
DATE: 5/5/16 **TIME:** 1100 **SAMPLING AGENCY:** 21 FLCEN
SITE NAME: Lake Copeland @ Center **WBID:** 3168M
FIELD ID/NAME: 64CE017 **LAKE SIZE:** 6,500 m² **RQ:** 2016-05-02-77

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☒ 75% Commercial ☒ 25% Industrial ☐ Other (Specify) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:	
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 <u>8</u>	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16		Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11		Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 <u>8</u> 7 6
LAKESIDE ALTERATIONS <u>12</u>	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16		Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 <u>12</u> 11		Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6
BUFFER ZONE <u>1</u>	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16		89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6
					Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1
					Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1
					< 29% of shoreline with >18m buffer 5 4 3 2 <u>1</u>

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>5259020</u> Exp. Date: <u>9/16/16</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High						Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____					
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>25.9</u> <u>8.0</u> <u>7.6</u> <u>99</u> <u>247</u> <u>.12</u> Mid-Depth: _____ Bottom: <u>3.1</u> <u>25.7</u> <u>7.7</u> <u>6.8</u> <u>84</u> <u>248</u> <u>.12</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☒ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify): _____						Clarity: ☐ Clear ☒ Turbid ☐ Opaque ☐ Slightly Turbid					
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						SECCHI (M) <u>.8</u> Total Station Depth (M) <u>3.6</u> VOB ☐					
Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☒ ☐ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☐ ☒ ☐ ☐						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
Weather Conditions: <u>Clear 80's</u>											
SAMPLING TEAM: _____						SIGNATURE: _____					
DATE: <u>5/5/16</u>											

[illegible]

10 2 5 8

10 : Salix C. Typha, myrica, Najas, Nuphar, Hydrocotyl, colocasia,
Cyperus (Lg. in.), Blechnum s., Sambucus, myrica, brazilian paper,
[^]
Cyperus alternifolius

11 : Sagittaria l, Pontederia, Nuphar Najas, Hydrocotyl, Panicum repens, Blechnum,
Myrica, utricularia gibba, Ludwigia octovalis, Alternanthera phil-x.

14 : Panicum hem., Hydrocotyl, Taxodium, Nuphar, Nymphaea odorata, Panicum repens,
Pontederia, Alternanthera philox., Typha, Najas

7 : Cyperus?, Typha, P. hematanum, P. repens, Hydrocotyl, Sambucus, Blechnum,
colocassia, Taxodium, Alternanthera p., Najas, Nelumbo lutea

17

Lake Copeland 3168M

