



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE ____ OF ____

Data Qualified?
Yes / No

STORET Station Name: Coon Lake, mid-radial north

Date: 05/03/2016
(mm/dd/yyyy)

STORET Station ID: 26010994

Latitude: _____
(Decimal Degrees)

WBID: 31740 RQ- 2016-05-02-74 ORG ID: 21FLCEN

Longitude: _____
(Decimal Degrees)

Receiving Body of Water: _____ Field ID: G4CE0116

County: Osceola

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Mike Liger										
Mike Drinnan										

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 / <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>12:23</u>	<u>0.3</u>	<u>2.4</u>	<u>6.9</u>	<u>88</u>	<u>5.8</u>	<u>0.05</u>	<u>0.7</u>	<u>108</u>	<u>28.4</u>
<u>CEN</u>		<u>1.9</u>		<u>6.2</u>	<u>79</u>	<u>5.7</u>	<u>0.05</u>		<u>108</u>	<u>27.8</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 ☐ HNO2			☐ <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-Cl-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 ☐ Enterococcus ☐ 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!

Sticker(s) Here

Notes:
WQ- 28.2686
-81.1826
Ramp @ Lk center -81.1839

Date: 5-03-2016

Time:

RQ-2016-0-02-74

G4CE0116

Field ID

STORET

26010994

Signature: [Signature]

Date: 5/3/16

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: 76364 MACROPHYTE ID: 9863
COUNTY: Osceola STORET #: 26010994
DATE: 5/3/16 TIME: 11:00
SITE NAME: Coon Lake, mid-radius 1 north
FIELD ID/NAME: 64CE 0116

LATITUDE: _____
LONGITUDE: _____
SAMPLING AGENCY: FDEP CE ROL
WBID: 31740
LAKE SIZE: Med RQ: 2016-05-02-74

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: _____													
<u>75</u>				<u>25</u>																	
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>9</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>14</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>14</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>28.4</u> <u>5.8</u> <u>6.9</u> <u>88</u> <u>108</u> <u>0.05</u> Mid-Depth: _____ Bottom: <u>1.9</u> <u>27.8</u> <u>5.7</u> <u>6.2</u> <u>79</u> <u>108</u> <u>0.05</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>11C / AR</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid							
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Color: ☐ Clear ☒ Tannic ☐ Green							
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>0.7</u> Total Station Depth (M) <u>2.4</u> VOB ☐							
Abundance: Periphyton ☐ Absent ☐ Rare ☒ Common ☐ Abundant Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐								Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic							
Additional Notes:															

Weather Conditions: 80's cloudy

SAMPLING TEAM: Mike Linger, Mike Drennan

SIGNATURE: [Signature]

DATE: 5/3/16

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

STORET STATION NUMBER:	DATE (M/D/Y)	LAKE NAME										FIELD ID / NAME:										
ECO-REGION:	COUNTY:	SAMPLING LOCATION/DESCRIPTION:										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		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 ☐	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 ☐	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 ☐	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 Alterations ☐	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 ☐	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 ☐	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

COMMENTS:

ANALYSIS DATE:

ANALYST:

SIGNATURE:

Date: 5/3/16

Analyst: Mike Liner, Mike Dorman

Signature: Don K. Linn

STORET: 26010954

Except where noted as "sp." species level identification required. *Genera that may require lab verification*

Lake units sampled
(circle one group):

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.

1, 4, 7, 10 2, 5, 8, 11
3, 6, 9, 12

[illegible]

[illegible]

Coon Lake 3174D

