

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Gobby Drainage Ditch

County: Leon

Date: 5/18/16

Investigators: B. Reys; J. Wallheiser

STORET Station Number: GIWA0025

Secchi depth	<u>100</u>
Estimated?	<u>---</u>
# points ranked 4-6	<u>52</u>
total points assessed	<u>49</u>
% points ranked 4-6	

Check accompanying data collected at same site/date.

Algal mat sample ☐

Linear Veg Survey ☐

Habitat Assessment ☐

SCI/Biorecon ☐

Water sample ☐

RQ- ☐

Algal Thickness Rank	
N	rough, no algae.
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

SBFO: 76112
RPS: 8067

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	<u>1</u>			60	1	<u>6</u>		
	2	<u>1</u>				2	<u>5</u>		
	3	<u>1</u>				3	<u>5</u>		
	4	<u>6</u>				4	<u>1</u>		
	5	<u>1</u>				5	<u>5</u>		<u>0</u>
	6	<u>1</u>				6	<u>5</u>		
	7	<u>1</u>				7	<u>1</u>		
	8	<u>6</u>				8	<u>6</u>		
	9	<u>6</u>				9	<u>6</u>		
10	1	<u>1</u>			70	1	<u>6</u>		
	2	<u>6</u>				2	<u>6</u>		
	3	<u>5</u>				3	<u>1</u>		
	4	<u>1</u>				4	<u>1</u>		
	5	<u>1</u>		<u>36</u>		5	<u>6</u>		<u>0</u>
	6	<u>1</u>				6	<u>6</u>		
	7	<u>1</u>				7	<u>6</u>		
	8	<u>1</u>				8	<u>6</u>		
	9	<u>6</u>				9	<u>6</u>		
20	1	<u>1</u>			80	1	<u>6</u>		
	2	<u>6</u>				2	<u>6</u>		
	3	<u>1</u>				3	<u>6</u>		
	4	<u>1</u>				4	<u>1</u>		
	5	<u>1</u>		<u>42</u>		5	<u>6</u>		<u>0</u>
	6	<u>1</u>				6	<u>6</u>		
	7	<u>1</u>				7	<u>6</u>		
	8	<u>6</u>				8	<u>6</u>		
	9	<u>6</u>				9	<u>6</u>		
30	1	<u>1</u>			90	1	<u>6</u>		
	2	<u>1</u>				2	<u>6</u>		
	3	<u>1</u>				3	<u>1</u>		
	4	<u>1</u>				4	<u>1</u>		
	5	<u>1</u>		<u>0</u>		5	<u>1</u>		<u>0</u>
	6	<u>1</u>				6	<u>6</u>		
	7	<u>1</u>				7	<u>6</u>		
	8	<u>6</u>				8	<u>6</u>		
	9	<u>6</u>				9	<u>6</u>		
40	1	<u>1</u>			100	1	<u>6</u>		
	2	<u>5</u>				2	<u>1</u>		
	3	<u>5</u>				3	<u>1</u>		
	4	<u>1</u>				4	<u>1</u>		
	5	<u>6</u>		<u>0</u>		5	<u>1</u>		<u>0</u>
	6	<u>1</u>				6	<u>1</u>		
	7	<u>1</u>				7	<u>6</u>		
	8	<u>6</u>				8	<u>1</u>		
	9	<u>6</u>				9	<u>6</u>		
50	1	<u>6</u>				1	<u>6</u>		
	2	<u>6</u>				2	<u>6</u>		
	3	<u>5</u>				3	<u>5</u>		
	4	<u>1</u>				4	<u>1</u>		
	5	<u>1</u>		<u>0</u>		5	<u>1</u>		
	6	<u>1</u>				6	<u>1</u>		
	7	<u>1</u>				7	<u>1</u>		
	8	<u>6</u>				8	<u>6</u>		
	9	<u>6</u>				9	<u>6</u>		

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

Waterbody: Gobbys Drainage Ditch Date: 5/18/16 County: Leon Storet Number: G1WAC0025

Analyst:

Signature:

Comments: SMP Sampling

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

HERBACEOUS SPECIES	Meter Mark										Specime n collected (check)	HERBACEOUS SPECIES	Meter Mark										Specime n collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
<i>Alternanthera philoxeroides</i>			X	X	X	X	X	X	X	X		<i>Myriophyllum heterophyllum</i>											
<i>Bacopa caroliniana</i>												<i>Najas guadelupensis</i>											
<i>Bacopa monnieri</i>												<i>Nuphar luteum</i>											
<i>Bidens mitis</i>												<i>Orontium aquaticum</i>											
<i>Boehmeria cylindrica</i>												<i>Panicum hemitomon</i>											
<i>Centella asiatica</i>												<i>Panicum repens</i>											
<i>Ceratophyllum demersum</i>												<i>Panicum rigidulum</i>											
<i>Chara</i>												<i>Pistia stratioides</i>											
<i>Cicuta maculata</i>												<i>Polygonum glabra</i>											
<i>Cladium jamaicense</i>												<i>Polygonum hydropiperoides</i>											
<i>Colocasia esculenta</i>												<i>Polygonum punctatum</i>											
<i>Commelina diffusa</i>												<i>Pontederia cordata</i>											
<i>Commelina virginica</i>												<i>Potamogeton illinoensis</i>											
<i>Crinum americanum</i>												<i>Rhynchospora inundata</i>											
<i>Diodia virginiana</i>												<i>Rosa palustris</i>											
<i>Eichhornia crassipes</i>												<i>Ruellia simplex</i>											
<i>Eleocharis (wispy viviparus)</i>												<i>Rumex verticillatus</i>											
<i>Hydrilla verticillata</i>												<i>Sacciolepis strata</i>											
<i>Hydrocotyle</i>												<i>Sagittaria kurziana</i>											
<i>Hygrophila polysperma</i>												<i>Sagittaria lancifolia</i>											
<i>Hymenocallis</i>												<i>Sagittaria latifolia</i>											
<i>Lachnanthes caroliniana</i>												<i>Salvinia minima</i>											
<i>Landoltia punctata</i>												<i>Samolus parviflora</i>											
<i>Lemna</i>												<i>Saururus cernuus</i>											
<i>Limnophila sessiflora</i>												<i>Scirpus (schenoplectus) californicus</i>											
<i>Ludwigia leptocarpa</i>												<i>Spartanium americanum</i>											
<i>Ludwigia palustris</i>												<i>Typha</i>											
<i>Ludwigia peruviana</i>												<i>Vallisneria americana</i>											
<i>Ludwigia repens</i>												<i>Zizania aquatica</i>											
<i>Luziola fluitans</i>																							
<i>Micranthemum glomeratum</i>												<i>Bidens laevis</i>											
<i>Micranthemum umbrosum</i>																							
<i>Mikania scandens</i>																							
<i>Myriophyllum aquaticum</i>																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage																							
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

SBF01, 7/6/12
Maf01, 9780

SCINAME	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
<i>Alternanthera philoxeroides</i>			D	D	D	D	D	D	D	D
<i>Bidens laevis</i>				P	P	P	P	P	P	P
<i>Colocasia esculenta</i>		D	P	P	P	P	P	P	P	P
<i>Hydrocotyle</i>				P	P	P	P	P	P	P
<i>Polygonum glabrum</i>					P	P	P	P	P	P
▶ <i>Pontederia cordata</i>			P	P	P	P	P	P	P	P
<i>Sagittaria lancifolia</i>				P	P				P	P

CM ↑
S12316

SFTO: 76112
Macro: 9780

tin

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Meter

Biology #2

RQ-

2016-05-16-33

Project

SMP

Boldly "X" this name
Do not write is
qualified to sign
this name.

Notes: (1) Numbers ≤4, are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).

(2) Always wait for meter to stabilize before recording any readings.

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

03/04/2016

DO FTEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	5/18/16	8:15	22.63	8.64	8.67	100.3	43.1	NA	Pass	Lab
ICV	Ben Roberts	5/18/16	8:17	22.64	8.64	8.70	100.7	43.1	NA	Pass	Lab
CCV	Sustained Illness	5/18/16	8:17	22.9	8:27	8.9	109.6	48.2	NA	Fail	Lab
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ±0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	5/18/16	8:18	1603300	4/2017	1,000	1,000	Pass	Lab
ICV	Ben Roberts	5/18/16	8:19	1603300	4/2017	1,000	1,001	Pass	Lab
CCV	Sustained Illness	5/18/16	8:22	CC3882	7/15/2016	101.1	98	Pass	Lab
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria ± 5%

pH FTEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	5/18/16	8:20	1603308	10/2017	7.0	7.0	-155	Pass	Lab
Calibr.	Ben Roberts	5/18/16	8:22	154334	07/2017	4.0	4.0	1634	Pass	Lab
Calibr.	Ben Roberts	5/18/16	8:25	1603300	16/2017	10.0	9.88	-1595	Pass	Lab
ICV	Ben Roberts	5/18/16	8:22	154334	07/2017	9.0	9.0	163.5	Pass	Lab
CCV										
CCV										

Report pH with one decimal place; pH Acceptance criteria ±0.2 SU; mV pH7 Range 0±50;

mV pH 4 Range +180±50;

mV pH 10 Range -180±50; Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria ±5 % or ±0.05m, whichever is greater

Sally Ward Spring, Eight Mile Pond, Godby Ditch and Black Creek

Florida Department of Environmental Protection

Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Justin Wallheiser

Project ID: SMP

Collected By: B. Ralys J. Wallheiser

Sampling Agency: FDEP

Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)
Sally Ward Spring at Wakefield Park Dr.	G1W40021				20.72	7.41	0.3	3.23			A
Black Creek upstream of Blackham Cutoff	G1W40023				20.88	5.79	0.3	1.04			A
Eight Mile Pond Middle	G1W40024				25.92	7.15	0.3	7.73			A
Godby Drainage Ditch at Vage Dr.	G1W40025				22.30	7.75	0.2	9.03			A.B.

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Justin Wallheiser	5/18/16 2:05			SK	5-18-16/2:06

Cooler Packing Worksheet for Request: RQ-2016-05-16-33

Sally Ward Spring, Eight Mile Pond, Godby Ditch and Black Creek

Ship Cooler On: 5/2/2016

Requester: Benjamin Ralys

Customer/Project: WQAP/SMP

Priority: 3

850-245-8443

2600 Blair Stone Rd

MS #3560

Tallahassee, FL 32399-2400

Attn: Benjamin Ralys

Comments:

No preservatives needed.

Bottle Group A: freshwater kit no metals

Bottle Group B: Algal

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00664525

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 110733

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 0004947

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3
W-NO2NO3
W-S-A-TP
W-TKN
W-TOC

Description

Ammonia in aqueous matrices as mg N/L
Nitrite/Nitrate in aqueous matrices as mg N/L
Total Phosphorus in aqueous matrices as mg P/L
Total Kjeldahl Nitrogen in aqueous matrices
Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 4 Preservation: ICE-FLTR

Lot # 00044632

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: Theresa Reynolds

Date: 5/11/16

DEP Cooler ID #(s): 191 cooler

Kit must also include:

☒ Field Sheets
☒ Temperature Control Bottle (1 per cooler)
☒ FedEx Bills, if applicable (1 per cooler)
☒ Plastic Bags
☒ Zip Ties

If Preservation Included:

ID	Lot #
ID	Lot #
ID	Lot #
ID	Lot #
ID	Lot #
ID	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2016-05-16-33