FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data: NO

Location/STORET Station Name: Swamp Creek upstream of Railroad **Date:** 12/20/17 (mm/dd/yyyy)

STORET # G1WA0052 **WBID:** 427 **Latitude:** 30.663 (Decimal Degrees)

County: Gadsden **RQ -** 2017-12-18-34 **ORG ID:** 21FLWQA **Longitude:** -84.448 (Decimal Degrees)

Receiving Body of Water: Attapulgus Creek **Field ID:** G1WA0052

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys		X			
Curtis Musson	X		X	X	X

Sampling Equipment
- [x] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [ ] Syringe
- [ ] Dipper [ ] Other
- Equipment ID

Collection Method
- [x] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [ ] Gasoline Motor

Water Level: Dry / Low / (Normal) / Above Normal / Flooded **Meter ID#** Biology #2 **Matrix:** (Fresh) / Marine / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / Flowing / NA **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High NA Low NA

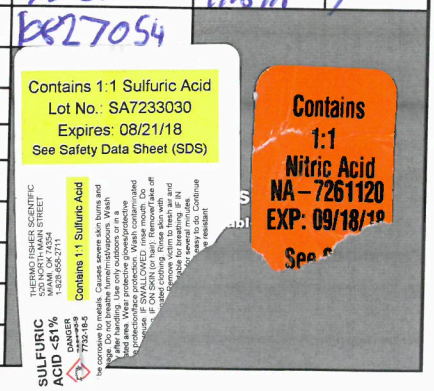
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C⁰)
(EST)	950	0.3	1.0	9.11	91.3	6.90	0.03	VOB	72	15.47
CEN										

cm

Biological Samples Collected: None (HA) (SCI) (RPS) Algae ID (LVS) LVI Other

SBIO ID Numbers: SBIO-ID: 78165 HA-ID: 14956 RPS-ID: 8872 Macrophyte-ID: <2m² LIMS#: 955338

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	[x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[x] Ice [x] H_2SO_4	7233030	8/21/18	[x] <2
Metals	[x] W-ICPMS [x] W-ICP	[x] Ice [x] HNO_3	7261120	9/18/18	[x] <2
Filtered Nutrients	[x] W-PO4-F [x] Field Filtered 0.45 µm Filter	[x] Ice	0827054		
Chlorophyll	[x] CHLSUITE-W	[x] Ice			
Physical/Aggregate (Fresh)	[x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[x] Ice			
Physical/Aggregate (Marine)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY	[ ] Ice			
Macroinvertebrates	[x] MI-FW-QLDC	[x] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[x] E Coli [ ] F Coli [ ] Enterococci	[x] Ice			
Molecular	[x] PCR-FILTER [x] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD	[x] Ice			
Tracers	[x] W-SUC-AA-R [x] W-UHERB-AA [x] W-AHERB-AA	[x] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-UHERB-AA [ ] W-AHERB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			



Notes:
Kit-C Bacteria,
Tracers, Markers (HF-183)
SCI, RPS, LVS, HA

HA <2m², No Algae

STORET / Field ID →
Swamp Creek
Upstream of Railroad
Dec 20, 2017
G1WA0052

Place Label Here (If Available)

Signature: Curtis Musson **Date:** 12/20/2017

Field Parameters Entered into LIMS: [illegible] 1/3/18 (Initials/Date)

Field Parameters QC in LIMS: CM 1-29-2018 (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: (Initials/Date)

SBIO: 78165 HAIG: 14956

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: GIWQ0058	DATE (MM/DD/YY): 12/20/17	RECEIVING BODY OF WATER: Attapulgus Creek
REMARKS:	COUNTY: Gadsden	LOCATION: Swamp Creek upstream of Railroad		FIELD ID/NAME: GIWQ0058

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components (Snag, Leaf, Roots, Rock, Aquatic Vegtation) **Substrate Diversity** 9	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 (9) 8 7 6	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 5 4 3 2 1
Substrate Availability 5 3-5 %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) 20 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat (5) 4 3 2 1
Water Velocity 17 0.27 m/s	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 (17) 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering 17 Primary Score 48	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 (17) 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components **Artificial Channelization** 18	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 (18) 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank 5 Left Bank 5 If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) 10 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) -,-,+ (5) 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. (-,-,-) 3 2 1
Riparian Buffer Zone Width Right Bank 10 Left Bank 8	Width of vegetation greater than 18 m (10) 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 4 (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank 10 Left Bank 9 Secondary Score 65	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. (10) 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

113 **TOTAL SCORE**

Date: 12/20/2017	Analyst: Curtis Musson Ben Rains	Signature:

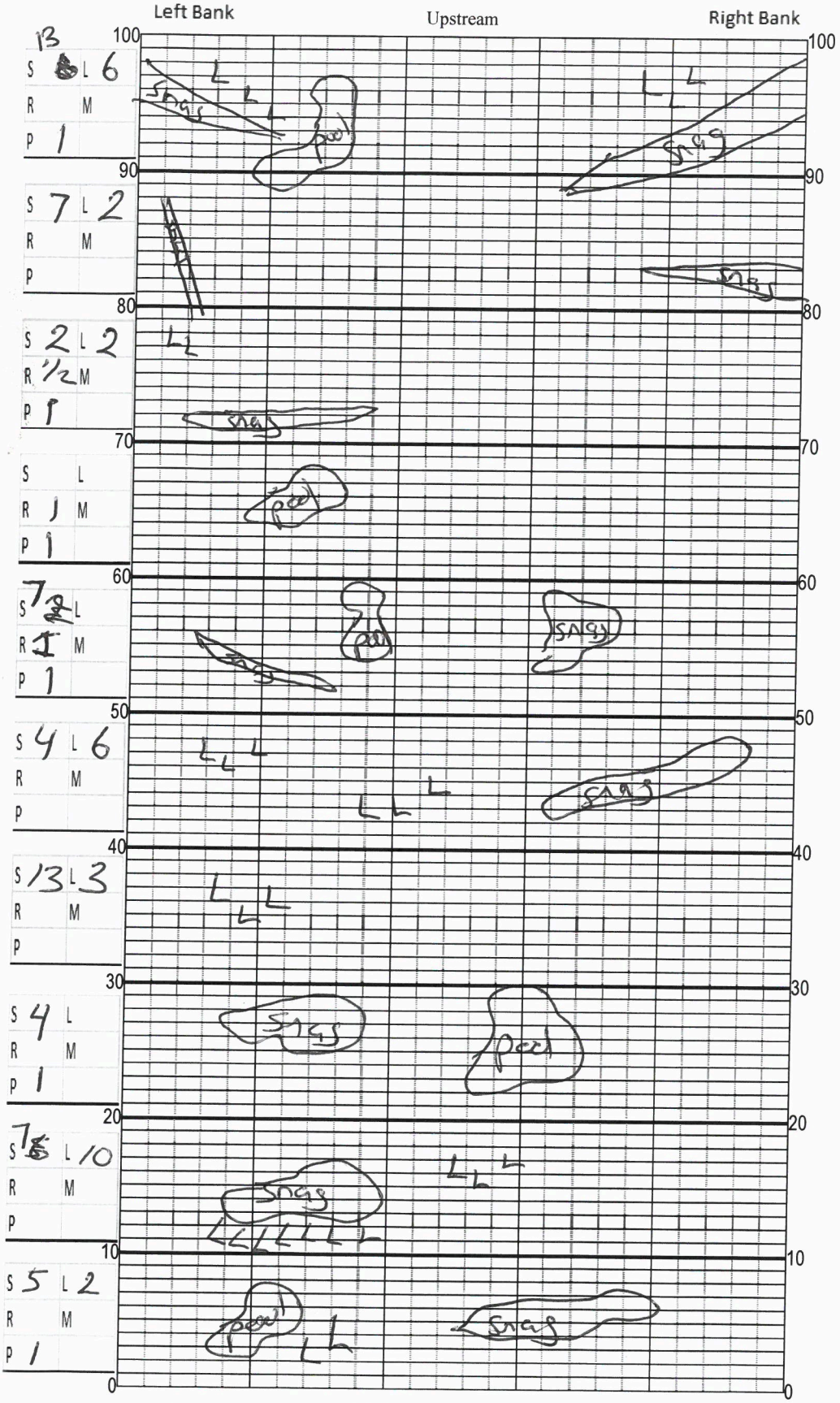
62-160.800, F.A.C.

Entered: 1/3/18

QC CM 1-29-18

Revision Date: March 1, 2014

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Location: Swamp Creek

Date: 12/20/17

Sampler: Ben Rahs, Curtis Mason

100 m:	Latitude	
	Longitude	
0 m:	Latitude	30.663
	Longitude	-84.468

Substrates: Code key, draw proportionate habitat abundance.

		%
S	Snags	72
R	Roots/undercut banks	>1
L	Leaf Packs (or mats)	>1
M	Aquatic Macrophytes	0
Rc	Rock	0
	Total	73%
P	Pools — total # observed = 5; # range expected = 1-3	

Average width 6 m

Average depth 0.3 m

Velocity measured at 40 meter mark.

Velocity 0.27 m/s

WQ & chemistry taken at 0 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Notes/Plants Observed:
2m² = 16 Sweeps

Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
40	0.3	6	3.7
Avg.			

0.27 m/s

Length of grid represents 100 m of stream (not linear meters). (Horizontal scale is double vertical scale, draw proportionately).

Expected Number of Pools

$\left(\frac{100}{12 * 6\ W}\right) * 1 = 1.4$

$\left(\frac{100}{12 * 6\ W}\right) * 2 = 2.8$

# of Sweeps	Conversion	m²	%
Snag 59	÷ 8	7.38	46%
Root 2.5	÷ 8	0.31	2%
Leaf 31	÷ 8	3.88	24%
Macrophyte 0	÷ 8	0	
Rock 0	÷ 8	0	
Total Available Habitat		11.57 m²	72%
Total Area		16 m²	
Total Unavailable Habitat		m²	

62-160.800, F.A.C Revision Date: March 1, 2014

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID 78165 ORG ID 21FLWQA LATITUDE 30.663
COUNTY Gadsden STORET # GIW400052 LONGITUDE -84.448
DATE 12/20/2017 TIME 09:50 EST SAMPLING AGENCY FDEP
SITE NAME Swamp Creek upstream of Rail Road
FIELD ID/NAME GIW400052 RECEIVING BODY OF WATER Attapulgus Creek

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :

Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)

Landscape Development Intensity Index (LDI):

Local Watershed Erosion (select one) : [X] None [ ] Slight [ ] Moderate [ ] Heavy

Local Watershed NPS Pollution : [X] No evidence [ ] Slight [ ] Moderate [ ] Heavy

Width of Riparian Vegetation (m) on Each Buffer Side
Left Bank : 18m Right Bank : 718m

Hydrologic Modification Score (per FT 3101):

High Water Mark: 1.0 (m) + 0.3 (above present water level) = 1.3 (present depth) (above bed)

Artificially Impounded [ ] Yes [X] No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect
m wide
0.2 m/s (Cn) 0.27 m/s / m/s
/ m deep 0.3 m deep / m deep

Artificially Channelized : [X] No [ ] Some recovery [ ] Mostly recovered, more sinuous [ ] Recent, severe

Canopy Cover % [ ] Open [X] Heavily Shaded [ ] Lightly Shaded (11-45%) [ ] Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils [X] Absent [ ] Slight [ ] Moderate [ ] Profuse

Sediment Odors [X] Normal [ ] Sewage [ ] Petroleum [ ] Chemical [ ] Anaerobic [ ] Other (Specify) :

Smothering of Substrates
Sand Smothering: None [ ] Slight [X] Moderate [ ] Severe [ ]
Silt Smothering: None [ ] Slight [X] Moderate [ ] Severe [ ]
Algae Smothering: None [X] Slight [ ] Moderate [ ] Severe [ ]

SUBSTRATE TYPE
Assessment Tool: [X] SCI [X] RPS [X] LVS [ ] LCI [ ] BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	2	7	–
Undercut Banks / Roots	1	1	–
Leaf Packs or Mat	1	7	–
Aquatic Vegetation	0	6	–
Rock or Shell Rubble..	0	0	–
Sand.....	97	5	–
Mud / Muck / Silt			
Other			
Other			

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top :	0.3	15.47	6.90	9.11	91.3	72	0.03	
Mid:								[X] VOB
Bottom								TOTAL DEPTH

Meter ID: Bio #2 — TOTAL DEPTH 0.4

Water Odors Normal [X] Petroleum [ ] Sewage [ ] Chemical [ ] Other [ ]

Water Surface Oils Normal [X] Sheen [ ] Globs [ ] Slick [ ] Other [ ]

Water Sample Taken? [X] Yes [ ] No
Sample Preserved? [X] Yes [ ] No
Lot Number: Scofield Sweet Exp:

Color Tannic [ ] Green (Algae) [ ] Clear [X] Other (Specify) [ ]

Algae Sample Taken? [ ] Yes [ ] No
Sample Preserved? [ ] Yes [ ] No
Lot Number: Exp:

Clarity Clear [ ] Slightly Turbid [X] Turbid [ ] Opaque [ ]

ABUNDANCE

	Not Obs.	Rare	Common	Abundant
Periphyton:	X			
Fish:	X			
Aquatic Plants:	X			
Iron/Sulfur Bacteria:		X		

System Type: Stream [X] Lake [ ] Wetland [ ] Estuary [ ] Other(Specify) [ ]

AMBIENT FIELD CONDITIONS / NOTES:

[X] The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM Curtis Musson / Ben Ralys SIGNATURE: DATE: 12/20/17

Entered: 1/3/18

62-160.800, F.A.C.

Revision Date: March 1, 2014

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Swamp Creek UPS. RLR | County: Gadsden | Date: 12/20/2017 | Investigators: C. Musson / B. Ralys

STORET Station Number: 21FLA00052

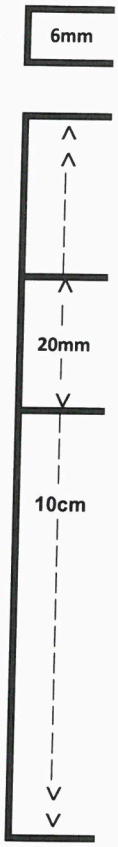
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N	N	
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
10	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
20	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
30	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
40	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
50	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8	X	✓	
	9	X	✓	

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	N	NO	
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
70	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
80	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
90	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
100	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8	✓	✓	
	9	NO	NO	

Secchi depth	Vob
Estimated?	NO
# points ranked 4-6	8
total points assessed	99
% points ranked 4-6	0

Check accompanying data collected at same site/date	
Algal mat sample	NO
Linear Veg Survey	Yes
Habitat Assessment	Yes
SCI/Biorecon	SCI Yes
Water sample	Yes
RQ-	2017-12-18-34

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



SBIO: 78165

RPS: 8872

Entered: ~~6/8~~ 1/3/18

QC: CM 1-29-18

Authorized: CM 1-29-18

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: Swamp Creek | Date: 12/20/17 | County: Gadsden | Storet Number: GW400052

Analyst: Ben Rabys, Curtis Musson | Signature: Ben Rabys

Comments: SMP Sampling SBIO: 78165

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m^2 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.

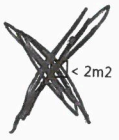
HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Alternanthera philoxeroides											
Bacopa caroliniana											
Bacopa monneri											
Bidens mitis											
Boehmeria cylindrica											
Centella asiatica											
Ceratophyllum demersum											
Chara											
Cicuta maculata											
Cladium jamaicense											
Colocasia esculenta											
Commelina diffusa											
Commelina virginica											
Crinum americanum											
Diodia virginiana											
Eichhornia crassipes											
Eleocharis (wispy viviparous)											
Hydrilla verticillata											
Hydrocotle											
Hygrophila polysperma											
Hymenocallis											
Lachnanthes caroliniana											
Landoltia punctata											
Lemna											
Limnophila sessiflora											
Ludwigia leptocarpa											
Ludwigia palustris											
Ludwigia peruviana											
Ludwigia repens											
Luziola fluitans											
Micranthemum glomeratum											
Micranthemum umbrosum											
Mikania scandens											
Myriophyllum aquaticum											

HERBACEOUS SPECIES	Meter Mark 0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Myriophyllum heterophyllum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum											
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
Peltandra virginica											
Pistia stratioides											
Polygonum glabra											
Polygonum hydropiperoides											
Polygonum punctatum											
Pontedaria cordata											
Potamogeton illinoensis											
Rhynchospora inundata											
Rosa palustris											
Ruellia simplex											
Rumex verticillatus											
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus											
Scirpus (schenoplectus) californicus											
Sparganium americanum											
Typha											
Vallisneria americana											
Zizania aquatica											

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											

Notes:

No macrophytes



Entered: [redacted] 1/3/18

QC: CM 1-29-18

Swamp SCE

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

Boldly "X" this box if there is qualified data on this page.

Meter ID: Dio #2 RQ- 2018-12-18-34 Project: SMP

Notes: (1) Always wait for meter to stabilize before recording any readings.
(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
(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 _____

DO DEP 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.	Curtis Musson	12/20/17	738	20.78	8.950	8.95	100.0	64.5	—	(P)/ F	(P)/ F
ICV	Curtis Musson	12/20/17	746	20.82	8.880	8.94	100.0	64.5	—	(P)/ F	(P)/ F
CCV	Curtis Musson	12/20/17	1211	19.86	9.111	9.24	101.4	65	—	(P)/ F	(P)/ F
CCV										P / F	L / F

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.	Curtis Musson	12/20/17	748	171005D	10/2018	1000	1000	(P)/ F	(P)/ F
ICV	Curtis Musson	12/20/17	750	171005D	10/2018	1000	1000	(P)/ F	(P)/ F
CCV	Curtis Musson	12/20/17	1213	171005E	10/2018	100	102	(P)/ F	(P)/ F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 5%

pH DEP SOP FT 1100	Name	Date	Time CT-(ET)	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	12/20/17	752	120614B	12/2018	7.0	7.00	22	(P)/ F	(P)/ F
Calibr.	Curtis Musson	12/20/17	753	171005A	10/2018	4.01	4.01	190	(P)/ F	(P)/ F
Calibr.	Curtis Musson	12/20/17	754	171005C	4/2019	10.01	9.98	-139	(P)/ F	(P)/ F
ICV	Curtis Musson	12/20/17	756	171005A	10/2018	4.01	3.96	192	(P)/ F	(P)/ F
CCV	Curtis Musson	12/20/17	1215	170614B	12/2018	7.0	7.06	22	(P)/ F	(P)/ F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 50; mV pH 10 Range -180 ± 50;
If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? (Yes) / **No** If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-(ET)	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	12/20/17	750	0.00	0.00	(P)/ F	(P)/ F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Request Number: RQ-2017-12-18-34

Swamp Creek SCI

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Rahys, Curtis Musson

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location	STORET / Field ID → G1WA0052
Field ID	Swamp Creek Upstream of Railroad
STORET #	Dec 20, 2017
Latitude	30.663 ☒ dd ☐ dms
Longitude	-84.448 ☒ dd ☐ dms
☐ Comp ☒ Grab	Collection (comp begin or grab) Date 12/20/17 Time 950 (Eastern circled) / Central
Composite end	Date — Time —
Matrix (type, e.g., Salt, Fresh, etc)	Fresh
Diss. Oxygen	9.11 ☒ mg/L ☐ % sat
Total Res. Chlorine (mg/L)	—
Temp (C)	15.47
pH	6.90
Sample Depth	0.3 ☐ ft ☒ m
Sp. Conductance (umho/cm)	72
Salinity (ppt)	0.03
Comments	G1WA0052
Bottle Group(s) (See pg 2)	ABCD EF

Location	
Field ID	
STORET #	
Latitude	☐ dd ☐ dms
Longitude	☐ dd ☐ dms
☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern / Central
Composite end	Date Time
Matrix (type, e.g., Salt, Fresh, etc)	
Diss. Oxygen	☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)	
Temp (C)	
pH	
Sample Depth	☐ ft ☐ m
Sp. Conductance (umho/cm)	
Salinity (ppt)	
Comments	
Bottle Group(s)	

Location	
Field ID	
STORET #	
Latitude	☐ dd ☐ dms
Longitude	☐ dd ☐ dms
☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern / Central
Composite end	Date Time
Matrix (type, e.g., Salt, Fresh, etc)	
Diss. Oxygen	☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)	
Temp (C)	
pH	
Sample Depth	☐ ft ☐ m
Sp. Conductance (umho/cm)	
Salinity (ppt)	
Comments	
Bottle Group(s)	

Location	
Field ID	
STORET #	
Latitude	☐ dd ☐ dms
Longitude	☐ dd ☐ dms
☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern / Central
Composite end	Date Time
Matrix (type, e.g., Salt, Fresh, etc)	
Diss. Oxygen	☐ mg/L ☐ % sat
Total Res. Chlorine (mg/L)	
Temp (C)	
pH	
Sample Depth	☐ ft ☐ m
Sp. Conductance (umho/cm)	
Salinity (ppt)	
Comments	
Bottle Group(s)	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
[signature]	12/20/17 / 1154	hand Delivered	1, 2 SCI Jug	[signature]	12/20/17 11:54

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A	P-1L	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	1	ICE		1
A	BP-1L	CHLSUITE-W	1	ICE		1
A	P-500ML	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	1	ICE And H2SO4		1
A	P-125ML	W-PO4-F	1	FILTER-ICE		1
B	P-500ML	W-ICP W-ICPMS	1	HNO3		1
C	P-250ML-WO-THI	ECOLI-18QT	1	ICE		1
D	BG-1L	W-AHERB-AA W-SUC-AA-R W-UHERB-AA	1	ICE		1
E	QPCR-P-250ML	PCR-FILTER PCR-HF183	2	ICE		2
F	PJ-2L	MI-FW-QLDC	2	Formalin		2

Group: G Bottle Type: PT-50ML # of Bottles: 1 Preservative: ICE **Enter Number of Bottles Sent to Lab** 0

ALGAL_ID