FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF ____

Data Qualified? Yes / No

PH

Location/STORET Station Name: Stone Mill Creek Upstream of Dianna St **Date:** 10/31/2017 (mm/dd/yyyy)

STORET # G2WA0012 **WBID:** 1075 **Latitude:** 30.1577919 (Decimal Degrees)

County: Gulf **RQ -** 2017-10-30-18 **ORG ID:** 21FLWQA **Longitude:** -85.2302 (Decimal Degrees)

Receiving Body of Water: Chipola River **Field ID:** G2WA0012_10312017

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

Sampling Equipment

- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [X] Syringe
- [ ] Dipper [ ] Other ____

Equipment ID ____

Collection Method

- [X] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

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

Matrix: Fresh / Marine / DI

Meter ID# Bio 2 **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	1115	0.25	0.5	8.17	82.4	6.67	0.03	VOB	68	15.82
CEN										

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

SBIO ID Numbers: SBIO-ID: 78077 RPS-ID: 8834 Macrophyte-ID: 10759 LIMS#: 1941604

Parameter Suite	Parameter Methods	Preservation	Acid 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	8/2/18	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice			
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	[X] ALGAE-ID	[X] Ice			
Microbiology	[X] E Coli [ ] F Coli [ ] Enterococci [ ] qPCR	[X] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PCL-SQ-R [ ] W-UHERB-AA [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

Contains 1:1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

THERMO FISHER SCIENTIFIC 3970 NORTH MAIN STREET MIAMI, OK 74354 1-828-658-2711

Contains 1:1 Sulfuric Acid

DANGER 7664-93-9 7732-18-5

Corrosive. Causes severe skin burns and eye damage. Do not breathe fume/mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Wash contaminated clothing before reuse. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Store locked up. Store in corrosive resistant container with a resistant inner liner.

Ticker(s) Here

Notes:

SCI
RPS
LVS
Kit A
E coli

Stone Mill Creek Upstream of Dianna St

STORET

G2WA0012

Field ID

Stone Mill Creek Upstream of Dianna St

Oct 31, 2017

G2WA0012_10312017

Signature: Curtis M **Date:** 10/31/2017

Field Parameters Entered into LIMS: BR 11-1 (Initials/Date) **Field Parameters QC in LIMS:** CM 1-23-18 (Initials/Date)

Date Migrated to STORET: ____ (Initials/Date) **Field Sheets Scanned/Saved:** ____ (Initials/Date)

WIN

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

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: G2WA0012	DATE (MM/DD/YY): 10/31/17	RECEIVING BODY OF WATER: Chipola River
REMARKS:	COUNTY: Gulf	LOCATION: Stone Mill Creek		FIELD ID/NAME: G2WA0012_10312017

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components (Snag, Leaf, Roots, Rock, Aquatic Vegtation) **Substrate Diversity** 14	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 20 >30 %	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 19 .31 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 15 ---------- Primary Score 68	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** 12	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 10 Left Bank 10 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 3 Left Bank X cm	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~~ cm (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 3 Left Bank cm 0 ---------- Secondary Score ~~66~~ 58	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. cm (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

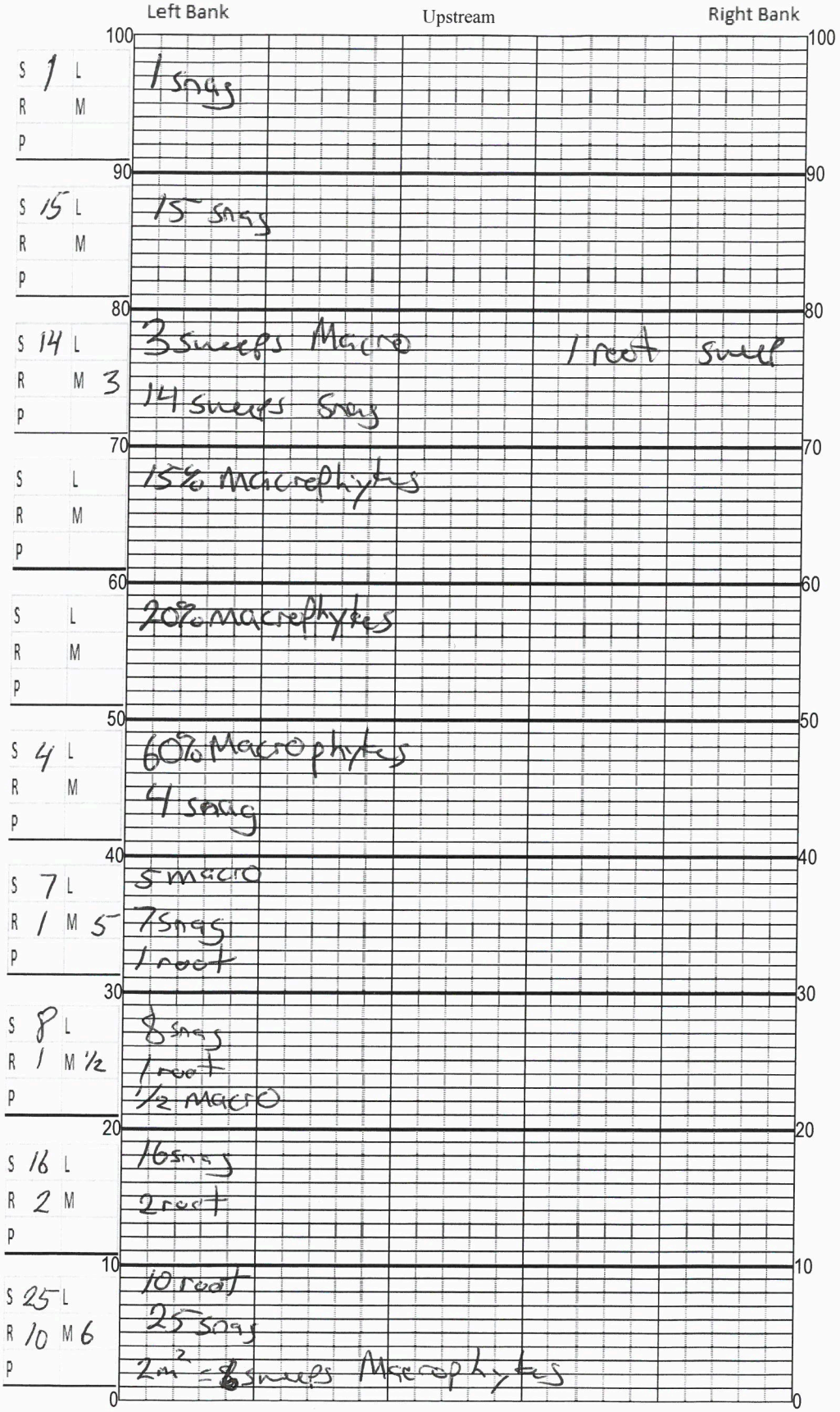
126 ~~134~~ cm **TOTAL SCORE**

Date: 10/31/17	Analyst: Ben Rahys, Curtis Musson	Signature:

SBFO ED # 78077
HAED # 14877

QC Cm 12-7-17

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



Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
Avg.			

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

Expected Number of Pools

$$\left(\frac{100}{12 * \_\_\_\_W}\right) * 1 =$$

$$\left(\frac{100}{12 * \_\_\_\_W}\right) * 2 =$$

Location: Stone Mill Creek

Date: 10/31/17

Sampler: Ben Ralys, Curtis Musson

100 m:	Latitude	
	Longitude	
0 m:	Latitude	
	Longitude	

Substrates: Code key, draw proportionate habitat abundance.		%
S	Snags	3
R	Roots/undercut banks	.5
L	Leaf Packs (or mats)	0
M	Aquatic Macrophytes	~~0.5~~ 10%
Rc	Rock	0
	Total	4
P	Pools — total # observed = ____ ; # range expected = ____	

Average width 5.5 m

Average depth 0.5 m

Velocity measured at 70 meter mark.

Velocity 0.01 m/s

WQ & chemistry taken at 60 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:
$2m^2$ = 16 Sweeps

3.2 seconds

# of Sweeps		Conversion	m^2	%
Snag	90	÷ 8	13.5 m^2	2.42
Root	14	÷ 8	2.10 m^2	.3
Leaf		÷ 8	m^2	
Macrophyte	15	÷ 8	2.10 m^2	.3
Rock		÷ 8	m^2	
Total Available Habitat			m^2	
Total Area			550 m^2	
Total Unavailable Habitat			m^2	

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Stone Mill Creek | County: Gulf | Date: 10/31/17 | Investigators: Ben Raleys, Curtis Musson

STORET Station Number: 32WA0012

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	3		
	2	3		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	3		
	8	3		
	9	3		
10	1	5		
	2	3		
	3	3		
	4	3		
	5	N		96
	6	N		
	7	3		
	8	3		
	9	3		
20	1	3		
	2	3		
	3	3		
	4	5		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	3		
30	1	3		
	2	3		
	3	4		
	4	4		
	5	N		96
	6	N		
	7	3		
	8	3		
	9	3		
40	1	N		
	2	3		
	3	3		
	4	N		
	5	3		66
	6	N		
	7	N		
	8	3		
	9	3		
50	1	3		
	2	N		
	3	3		
	4	4		
	5	4		97
	6	4		
	7	4		
	8	4		
	9	3		

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
60	1	3		
	2	3		
	3	3		
	4	X 3		
	5	X		9
	6	X		
	7	X		
	8	X		
	9	X		
70	1	5		
	2	5		
	3	5		
	4	N		4
	5	5		
	6	N		
	7	5		
	8	5		
	9	3		
80	1	4		
	2	4		
	3	X		
	4	X		
	5	N		94
	6	N		
	7	N		
	8	4		
	9	4		
90	1	4		
	2	5		
	3	3		
	4	N		96
	5	4		
	6	N		
	7	N		
	8	4		
	9	3		
100	1	3		
	2	3		
	3	4		
	4	3		
	5	3		96
	6	N		
	7	N		
	8	3		
	9	4		

Secchi depth	Vab
Estimated?	NO
# points ranked 4-6	19
total points assessed	94
% points ranked 4-6	19
(Exclude X's)	20%

(N to 1 mm)

(3) 6mm

(4) 20mm

(5) 10cm

(6)

Check accompanying data collected at same site/date.	
Algal mat sample	X
Linear Veg Survey	Y
Habitat Assessment	Y
SCI/~~Biorecon~~	X
Water sample	X
RQ-2017-10-30-18	

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

(> 3 considered smothered)

S ~~3~~ 4

M ~~3~~ 3

B ~~4~~ ~~3~~ 5

R ~~3~~ ~~4~~ 5

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%.

SBIO: 78077 QC, CM, 1-23-18

RPS: 8834

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

SAMPLE ID 78077 ORG ID 21FLWQA LATITUDE 30.1577919
COUNTY Gulf STORET # G2WA0012 LONGITUDE -85.2302
DATE 10/31/17 TIME 11:15 SAMPLING AGENCY FDEP
SITE NAME Stone Mill Creek upstream of Dianna St.
FIELD ID/NAME G2WA0012 - 10312017 RECEIVING BODY OF WATER Chipola River

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)
39	58	0.2	—	2.3	—	0.4	0.1 (water)

Landscape Development Intensity Index (LDI): 1.5

Local Watershed Erosion (select one) : ☐ None ☒ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side: Left Bank : 5 Right Bank : 18

Hydrologic Modification Score (per FT 3101): 5-6

High Water Mark: 3.0 (m) + 0.5 (above present water level) = 3.5 (present depth) (above bed)

Artificially Impounded ☐ Yes ☒ No

Typical Width (m) Depth (m)/Velocity (m/sec) Transect

	5.5 m wide		
m/s	0.31 m/s	m/s	
m deep	0.5 m deep	m deep	

Artificially Channelized : ☐ NO ☒ Mostly recovered, more sinuous ☐ Some recovery ☐ Recent, severe

Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse

Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☐ Other (Specify) :

Smothering of Substrates

	None	Slight	Moderate	Severe
Sand Smothering:	☐	☒	☐	☐
Silt Smothering:	☐	☒	☐	☐
Algae Smothering:	☐	☒	☐	☐

SUBSTRATE TYPE

Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	2.42	5	
Undercut Banks / Roots	0.3	5	
Leaf Packs or Mat			
Aquatic Vegetation	10.0	5	
Rock or Shell Rubble..			
Sand.....		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 :	0.25	15.82	6.67	8.17	82.4	68	0.03	
Mid:								☒ VOB
Bottom								TOTAL DEPTH

Meter ID: Biology #2 — TOTAL DEPTH: 0.5

Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☒ Yes ☐ No
Sample Preserved? ☐ Yes ☐ No
Lot Number: See Field Sheet Exp: _____

Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐

Algae Sample Taken? ☒ Yes ☐ No
Sample Preserved? ☐ Yes ☐ No
Lot Number: ICE Exp: _____

Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐

ABUNDANCE

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

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐ _____

AMBIENT FIELD CONDITIONS / NOTES:

☑ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM: Ben Ralys, Curtis Musson

SIGNATURE : BR

DATE : 10/31/17

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

Waterbody: Stone Mill Creek | Date: 10/31/17 | County: Gulf | Storet Number: G2WA0012

Analyst: Curtis Mussey | Signature: Curtis Mussey

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 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	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 (grass)						X	X				
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											
If no Dominant or Co-Dominant were selected, indicate with "X"											

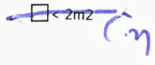
HERBACEOUS SPECIES	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Specimen collected (check)
Myriophyllum heterophyllum											
Najas guadelupensis											
Nuphar luteum											
Orontium aquaticum				X	X	X	X	X			
Panicum hemitomon											
Panicum repens											
Panicum rigidulum											
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	X	X		X	X	X	X	X	X	X	
Typha											
Vallisneria americana											
Zizania aquatica											
Juncus Repens	X	X							X	X	
Aquatic Moss	X	X	X	X	X	X			X	X	?
↳ Fontinalis											

Indicate % cover macrophytes per section											
0-5% Macrophyte Coverage			X	X			X	X	X	X	
>5 and ≤10% Macrophyte Coverage	X	X									
>10 and ≤25% Macrophyte Coverage					X	X					
>25 and ≤50% Macrophyte Coverage											
> 50% Macrophyte Coverage											

Notes:

SBIO: 78077

Macrophyte #: 10754



Macrophyte QC Report

STORET: G2WA0012
Visit ID: 78077
Macrophyte ID: 10759
LIMS ID: 1941604

Sample Date: 10/31/2017
Collector Name: Musson, Curtis
Identifier Name:

Macrophyte Sample Comments:

Taxa Name:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Diodia virginiana						P	P				Cn
Fontinalis	P	P	P	P	P	P		P	P	P	Cm
Juncus repens	P	P							P	P	Cm
Orontium aquaticum				P	P	P	P	P			Cm
Sparganium americanum	P	P		P	P	P	P	P	P	P	Cm

Cm Qc 1-23-18

This data has not been fully approved at this time.

Stone mule, Tan Yard B,

"solidly" X'd this box. There is quality duration this page.

pH

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

Meter ID: Bto #2 RQ- 2017-10-30-18 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	10/31/17	659	19.66	9.147	9.15	100.0	51	—	(P)/F	(P)/F
ICV	Curtis Musson	10/31/17	700	19.67	9.147	9.10	100.0	51	—	(P)/F	(P)/F
CCV	Curtis Musson	10/31/17	1633	21.59	8.812	8.54	96.9	50	—	(P)/F	(P)/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.
Optical: DO gain range 0.85 to 1.15; DO charge N/A.
Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
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	10/31/17	702	171005D	10/2018	1000	1000	(P)/F	(P)/F
ICV	Curtis Musson	10/31/17	703	171005D	10/2018	1000	1000	(P)/F	(P)/F
CCV	Curtis Musson	10/31/17	1636	171005E	10/2018	100	101	(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	10/31/17	705	170614B	12/2018	7.0	7.00	45	(P)/F	(P)/F
Calibr.	Curtis Musson	10/31/17	707	171005A	10/2018	4.01	4.01	214	(P)/F	(P)/F
Calibr.	Curtis Musson	10/31/17	710	170310C	09/2018	10.01	9.97	-113	(P)/F	(P)/F
ICV	Curtis Musson	10/31/17	712	171005A	10/2018	4.01	3.99	214	(P)/F	(P)/F
CCV	Curtis Musson	10/31/17	1637	170614B	12/2018	7.0	6.54	34	P(F)	L/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	10/31/17	704	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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: RQ-2017-10-30-18
Stone Mill, tanyard, Big Branch
Customer: WAS-SECT
Project ID: SMP
Requester: Curtis Musson
Collected By: Ben Ralys Curtis Musson
Field Report Prepared By: Ben Ralys
Sampling Agency: FDEP
Page 1 of 1

Location: Stone Mill Creek Upstream of Dianna St
STORET: Q2WA0012
Field ID: Stone Mill Creek Upstream of Dianna St
Oct 31, 2017
Q2WA0012_10312017

Comp / Grab	Grab
Collection (comp begin or grab) Date	10/31/17
Time	
Eastern / Central	Eastern
Collection (comp begin or grab) Date	—
Time	—
Bottle Group(s)	A, B, C
Matrix (Salt, Fresh)	Fresh
Diss. Oxygen (mg/L)	8.17
Temp (C)	15.82
pH	6.67
Sample Depts (m)	0.25
Sp. Conductance (umho/cm)	68
Salinity (ppt)	0.03
Comments	
Latitude (Decimal Degrees)	30.1577919
Longitude (Decimal Degrees)	-85.2302

Location: Big Branch Downstream of Road 5
STORET: Q2WA0010
Field ID: Big Branch Downstream of Road 5
Oct 31, 2017
Q2WA0010_10312017

Comp / Grab	Grab
Collection (comp begin or grab) Date	10/31/17
Time	912
Eastern / Central	Eastern
Collection (comp begin or grab) Date	—
Time	—
Bottle Group(s)	A, B
Matrix (Salt, Fresh)	Fresh
Diss. Oxygen (mg/L)	6.69
Temp (C)	11.14
pH	4.58
Sample Depts (m)	0.15
Sp. Conductance (umho/cm)	28
Salinity (ppt)	0.01
Comments	
Latitude (Decimal Degrees)	30.158
Longitude (Decimal Degrees)	-85.252

Location: Tanyard Branch 100 meters upstream of Ralph Strong Rd.
STORET: Q1WA0005
Field ID: Tanyard Branch 100 meters upstream of Ralph Strong Rd.
Oct 31, 2017
Q1WA0005 10312017

Comp / Grab	Grab
Collection (comp begin or grab) Date	10/31/17
Time	1430
Eastern / Central	Eastern
Collection (comp begin or grab) Date	—
Time	—
Bottle Group(s)	A, B, C
Matrix (Salt, Fresh)	Fresh
Diss. Oxygen (mg/L)	8.42
Temp (C)	17.86
pH	6.83
Sample Depts (m)	0.15
Sp. Conductance (umho/cm)	
Salinity (ppt)	0.15
Comments	NO SCI collected, Just Algal ID
Latitude (Decimal Degrees)	30.5832
Longitude (Decimal Degrees)	-84.5519

Relinquished By:	Curtis Musson	Date/Time	10/31/2017 / 1449	Number of Coolers	2 coolers
Received By:	ABP	Date/Time	10-31-17 / 1449		

Group: A Bottle Type: P-1L # of Bottles: 3 Preservative: ICE **Enter Number of Bottles Sent to Lab** 3

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
W-TDS
W-TSS

Group: A Bottle Type: BP-1L # of Bottles: 3 Preservative: ICE **Enter Number of Bottles Sent to Lab** 3

CHLSUITE-W

Group: A Bottle Type: P-500ML # of Bottles: 3 Preservative: ICE And H2SO4 **Enter Number of Bottles Sent to Lab** 3

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

Group: A Bottle Type: P-125ML # of Bottles: 3 Preservative: FILTER-ICE **Enter Number of Bottles Sent to Lab** 3

W-PO4-F

Group: B Bottle Type: P-250ML-WO-THI # of Bottles: 3 Preservative: ICE **Enter Number of Bottles Sent to Lab** 3

ECOLI-18QT

Group: C Bottle Type: PT-50ML # of Bottles: 2 Preservative: ICE **Enter Number of Bottles Sent to Lab** 2

ALGAL_ID

Group: C Bottle Type: PJ-2L # of Bottles: 4 Preservative: Formalin **Enter Number of Bottles Sent to Lab** 2

MI-FW-QLDC

Cooler Packing Worksheet for Request: RQ-2017-10-30-18
Stone Mill, Tanyard, BigBranch
Ship Cooler On: 10/24/2017
Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:
No preservatives needed.

Group A: Freshwater Kit, No Metals
Group B: E. coli
Group C: SCI, Algal ID

Requested Analyses:

Bottle Group: A # of Sites: 3

Container ID: P-1L **Qty: 3** **Preservation: ICE** **Lot #** 0009122
Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 3** **Preservation: ICE** **Lot #** 1209913
Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 3** **Preservation: ICE And H2SO4** **Lot #** 0001686654

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 3** **Preservation: FILTER-ICE** **Lot #** 0001683347

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B # of Sites: 3

Container ID: P-250ML-WO-THI **Qty: 3** **Preservation: ICE** **Lot #** L17048

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

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Bottle Group: C # of Sites: 2

Container ID: PT-50ML **Qty: 2** **Preservation: ICE** **Lot #** 03716003

Description: Plastic Tube 50 mL

Analysis	Description
ALGAL_ID	Qualitative assessment of algal taxa present without counts

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Container ID: PJ-2L **Qty: 4** **Preservation: Formalin** **Lot #** BIOWASH

Description: Plastic Jar 2 L

Analysis	Description
MI-FW-QLDC	No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: J.D. Number of Coolers: 2 Date: 10/24/17

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ___ FedEx Bills, if applicable
- ✓ Plastic Bags
- ✓ Zip Ties

If Preservation Included:

ID _____ Exp _____ Lot # _____
ID _____ Exp _____ Lot # _____
ID _____ Exp _____ Lot # _____
ID _____ Exp _____ Lot # _____
ID _____ Exp _____ Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-30-18