FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2016

Data Qualified? Yes / No

STORET Station Name: Chicken Branch at Old Plank Rd **Date:** 11/16/2016 (mm/dd/yyyy)

STORET Station ID: G1WA0031 **WBID:** 971 **Latitude:** 30.3261 (Decimal Degrees)

County: Leon **RQ -** 2016-11-14-39 **ORG ID:** 21FLWQA **Longitude:** -84.1481 (Decimal Degrees)

Receiving Body of Water: St. Marks River **Field ID:** G1WA0031-11162016

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X	X		
Robert Wiwi	X	X		X	X

Sampling Equipment

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

Equipment ID

Collection Method

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

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

Water Level: Dry / (Low) / Normal / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# Biology #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)	9:15	0.3	0.5	6.83	67.6	7.40	0.14	VOB	300	14.85
CEN										

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

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	6209120	7/27/17	[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			
Microbiology	[ ] E Coli [ ] F Coli [ ] Entero [ ] QPCR	[ ] Ice			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PC-AA-SF [ ] W-UHERB-AA [ ] W-GLYPH				

Place Preserv... Here (If...)

Contains 1:1 Sulfuric Acid SA-6209120 EXP: 07/27/17 Warning!

Notes:

SBFo ID: 77092

Field ID →

Chicken Branch at Old Plank Rd

Nov 16, 2016

G1WA0031-11162016

Chicken Branch at Old Plank Rd

STORET ↓

G1WA0031

Here le)

Signature: Curtis Musson **Date:** 11-16-2016

Field Parameters Entered into LIMS: Cm 11-17-16 (Initials/Date) Field Parameters QC in LIMS: (Initials/Date)

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

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

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: GIWA 0031	DATE (MM/DD/YY): 11/16/16	RECEIVING BODY OF WATER: St Mark SRe
REMARKS: SMP	COUNTY: Leon	LOCATION: Chicken Branch at old Plank Rd		FIELD ID/NAME: GIWA0031-11/16/2016

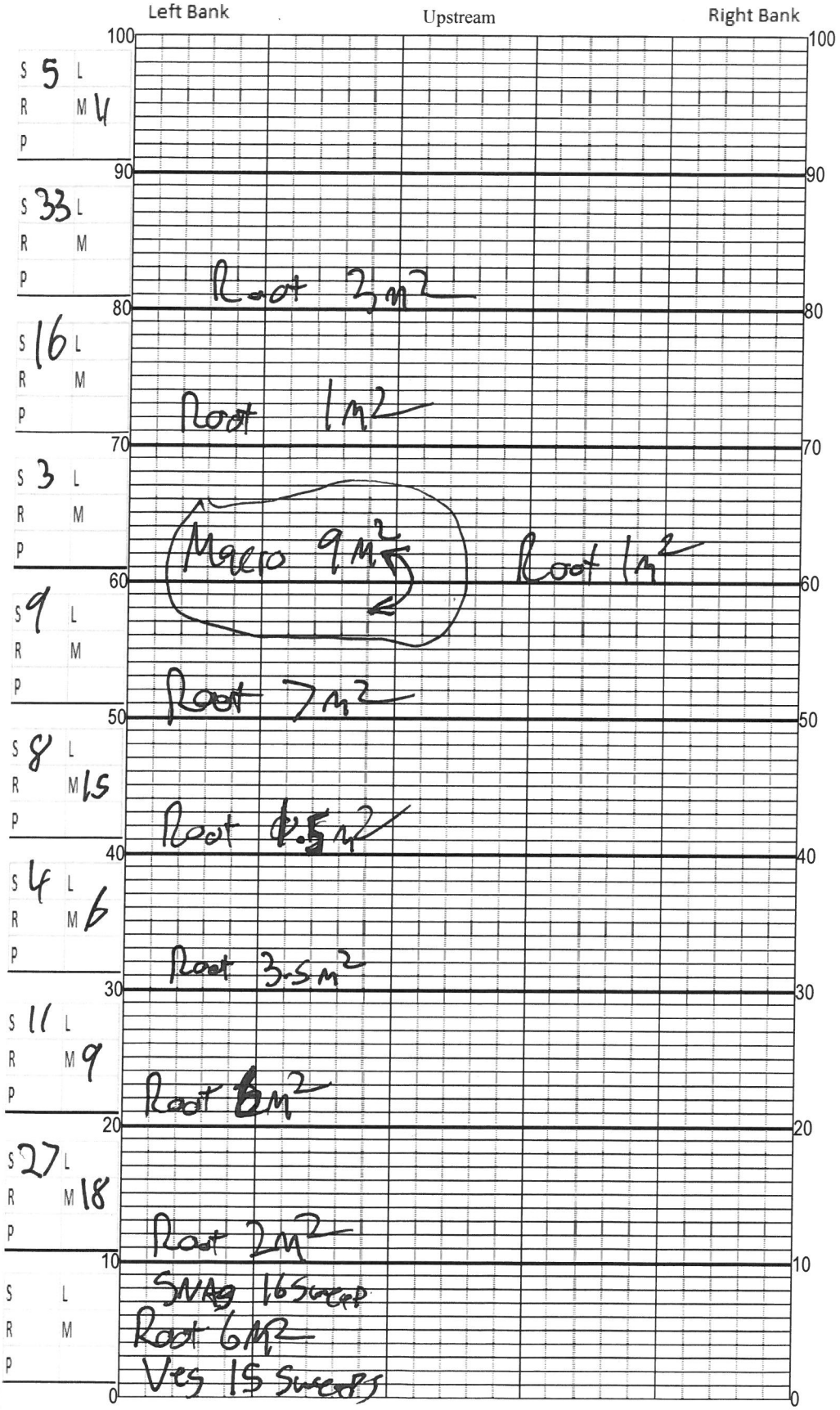
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components (Snag, Roots, Leaf, Rock, Aquatic Vegetation) **Substrate Diversity** 15	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock] 20 19 18 17 16	Three major 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 9 14 %	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 12 0.13 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 53	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** 20	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 Left Bank 10	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 10 Secondary Score 80	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

133 **TOTAL SCORE**

Date: 11-16-16	Analyst: Curtis Mosser	Signature:

SBIO ID: 77092

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



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

Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
0	0.3	5.5	7/8/8
Avg.			

$\bar{x} = 7.6$

Expected Number of Pools

100 Ft: $\left(\frac{100}{12 * \_\_\_\_W}\right) * 1 = 1.5$

$\left(\frac{100}{12 * \_\_\_\_W}\right) * 2 = 3$

Location: Chittenden Branch on Old Plank Rd

Date: 11-16-2016

Sampler: Curtis Mussen

100 m:	Latitude	
	Longitude	
0 m:	Latitude	
	Longitude	

Substrates: Code key, draw proportionate habitat abundance.

		%
S	Snags	3.6
R	Roots/undercut banks	5.6
L	Leaf Packs (or mats)	Present
M	Aquatic Macrophytes	3.45
Rc	Rock	0
	Total	14%
P	Pools — total # observed = 2; # range expected = 2-3	

Average width 5.5 m

Average depth 0.5 m

Velocity measured at 0 meter mark.

Velocity 0.13 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

# of Sweeps	Conversion	m²	%
Snag 132	÷ 8	20 m²	
Root	÷ 8	23 m²	
Leaf	÷ 8	m²	
Macrophyte 16	÷ 8	19 m²	
Rock	÷ 8	m²	
Total Available Habitat		71 m²	14
Total Area		550 m²	
Total Unavailable Habitat		m²	

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)

PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

SAMPLE ID 77092 | ORG ID 21FLWQA | LATITUDE 30.3261
COUNTY Leon | STORET # 21FLA0031 | LONGITUDE -84.1481
DATE 11-16-2016 | TIME 9:15 | SAMPLING AGENCY FDEP
SITE NAME Chicken Branch at old Plank Rd
FIELD ID/NAME 21FLA0031-11162016 | RECEIVING BODY OF WATER St Marks 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)
43.2	43.4	0.8	0.2	8.1	0	4.2	0.1 Reservoirs

Landscape Development Intensity Index (LDI): 2.1

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

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

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

Hydrologic Modification Score (per FT 3101): 3-4

High Water Mark: .55 (m) + 0.5 (present depth) = 1.05 (above bed)
(above present water level)

Artificially Impounded: [ ] Yes [X] No

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

	5.5 m wide	
m/s	0.13 m/s	m/s
m deep	0.25 m deep	m deep

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

Canopy Cover %: [ ] Open [ ] Lightly Shaded (11-45%) [X] 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:	[X]	[ ]	[ ]	[ ]
Silt Smothering:	[ ]	[ ]	[X]	[ ]
Algae Smothering:	[ ]	[X]	[ ]	[ ]

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

	% Coverage	INVERT # Times Sampled	PERI # Times Sampled
Woody Debris (Snags)	3.6	5	
Undercut Banks / Roots	5.6	5	
Leaf Packs or Mat		2.5	
Aquatic Vegetation	3.45	5	
Rock or Shell Rubble..			
Sand.....			
Mud / Muck / Silt			
Other CPom/Sand..	86	2.5	
Other			

WATER QUALITY

	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Top :								
Mid:	0.3	14.85	7.40	6.83	67.6	300	0.14	[X] VOB
Bottom	0.5							SITE DEPTH
Meter ID:	Biology #2							0.5

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: 6209120 Exp: 7/27/17

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

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

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

ABUNDANCE

	Absent	Rare	Common	Abundant
Periphyton:	[X]	[ ]	[ ]	[ ]
Fish:	[ ]	[ ]	[ ]	[X]
Aquatic Plants:	[ ]	[ ]	[X]	[ ]
Iron/Sulfur Bacteria:	[X]	[ ]	[ ]	[ ]

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

WEATHER CONDITIONS / NOTES:
Springs Feel

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

SAMPLING TEAM: Curtis Musson / Robert Wiwi | **SIGNATURE:** | **DATE:** 11-16-2016

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site:	County:	Date:	Investigators:
Chickenbranch at old Plank Rd	Leon	11/16/2016	Robert Wini

STORET Station Number: GIWA0031

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	3	No	
	2	N		
	3	N		
	4	N		
	5	N		93
	6	N		
	7	N		
	8	N		
	9	3	No	
10	1	N	No	
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N	No	
20	1	N	No	
	2	N		
	3	N		
	4	N		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N	No	
30	1	N	No	
	2	N		
	3	N		
	4	N		
	5	N		95
	6	3		
	7	3		
	8	N		
	9	N	No	
40	1	N	No	
	2	N		
	3	N		
	4	3		
	5	N		96
	6	N		
	7	N		
	8	N		
	9	N	No	
50	1	N	No	
	2	N		
	3	3		
	4	N		
	5	N		96
	6	N		
	7	3		
	8	N		
	9	N	No	
60	1	N	No	
	2	N		
	3	N		
	4	3		
	5	N		93
	6	3		
	7	3		
	8	3		
	9	N	No	
70	1	N	No	
	2			
	3			
	4			
	5			94
	6			
	7			
	8	N		
	9	N	No	
80	1	N	No	
	2			
	3			
	4			
	5			96
	6			
	7			
	8	N		
	9	N	No	
90	1	N	No	
	2			
	3			
	4			
	5			90
	6			
	7			
	8			
	9	N	No	
100	1	N	No	
	2			
	3			
	4			
	5			94
	6			
	7			
	8			
	9	N	No	

Secchi depth	Visible
Estimated?	No

# points ranked 4-6	0
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	Yes
Water sample	Yes

RQ-2016-11-14-39

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

SBTo ID 77092

RPS ID: 8477

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: Chicken Branch at old Park Rd | Date: 11/16/16 | County: Leon | Storet Number: 21WA0031

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 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	D	D	D	D	X	X	X	X	X		
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			X		X	X		P			
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				X	X	P					
Polygonum punctatum											
Pontederia cordata		X	X	P	D	P	D		X	D	
Potamogeton illinoensis											
Rhynchospora inundata											
Rosa palustris											
Ruellia simplex											
Rumex verticillatus			X							X	
Sacciolepis striata											
Sagittaria kurziana											
Sagittaria lancifolia											
Sagittaria latifolia											
Salvinia minima											
Samolus parviflora											
Saururus cernuus			X		X					X	
Scirpus (schenoplectus) californicus											
Sparganium americanum											
Typha											
Vallisneria americana	X	X	X	X					P		
Zizania aquatica											
~~Prostrate~~ Prospinaca Palustris	X	X		X		X	X		X		
Seeds (1)	X		X	X		X	X	X	X		
Carex Gigantea											

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

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

Notes:

SBFo ID; 77092

Macro ID; 10222

☐ < 2m2

0, 10, 20, 30

Macrophyte QC Report

STORET: G1WA0031
Visit ID: 77092
Macrophyte ID: 10222
LIMS ID:

Sample Date: 11/16/2016
Collector Name: Musson, Curtis
Identifier Name: Musson, Curtis

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
Carex gigantea	P		P	P		P	P	P		P
Cicuta maculata	D	D	D	D	P	P	P	P	P	
Ludwigia repens				P		P	P		P	
Polygonum hydropiperoides					P	P	P			
Pontederia cordata		P	P	P	D	D	D		P	D
Proserpinaca palustris	P	P		P		P	P		P	P
Rumex verticillatus			P							P
Saururus cernuus			P			P				P
Vallisneria americana	P	P	P	P					P	

CM 11-17-16

This data has not been fully approved at this time.

FDEP Plant Sampling Review

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

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

Meter: Biology 2 | RQ-: 2016-11-14-39 | Project: SMP

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 09/23/2016

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.	R. Wini	11/16/16	7:09	21.0	8.9	8.9	100	39.0	—	P	L
ICV	R. Wini	11/16/16	7:09	21.0	8.9	8.9	100	39.0	—	P	L
CCV	R. Wini	11/16/16	13:13	19.3	9.2	9.3	101	38.0	—	P	L
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.	R. Wini	11/16/16	7:12	160330D	4/17	1000	1000	P	L
ICV	R. Wini	11/16/16	7:13	160330D	4/17	1000	1000	P	L
CCV	R. Wini	11/16/16	13:14	161111E	5/17	100	100	P	L
CCV									

Report specific conductance as a whole number with no decimal figure. 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.	R. Wini	11/16/16	7:17	160330B	10/17	7.0	7.0	-28.7	P	L
Calibr.	R. Wini	11/16/16	7:18	160330A	4/17	4.0	4.0	180.0	P	L
Calibr.	R. Wini	11/16/16	7:20	160330C	10/17	10.0	10.0	-195.2	P	L
ICV	R. Wini	11/16/16	7:21	160330A	4/17	4.0	4.0	180.5	P	L
CCV	R. Wini	11/16/16	13:15	160330C	10/17	10.0	10.0	-199.3	P	L
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

Request Number: RQ-2016-11-14-39

Moriah Creek, Chicken Branch, Ward Creek and Caney Branch

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Curtis Musson, Robert Wimi

Field Report Prepared By: Robert Wimi

Sampling Agency: FDEP

Location: Chicken Branch at Old Plank Rd	☐ Comp ☑ Grab	Collection (comp begin or grab) Date: 11/16/16 Time: 9:15	Eastern / Central	Composite end Date	Time	Bottle Group(s) (See pg 2): B, C											
Field ID: G1WA0031-11162016	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 6.83	☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —													
STORET #: G1WA0031	Temp (C): 14.85	pH: 7.40	Sample Depth: 0.3	☐ ft ☑ m	Sp. Conductance (umho/cm): 300												
Latitude: 30.3261 ☑ dd ☐ dms	Longitude: -84.1481 ☑ dd ☐ dms	Salinity (ppt): 0.14	Comments														
Location: Caney Creek Upstream of US90	☐ Comp ☑ Grab	Collection (comp begin or grab) Date: 11/16/16 Time: 12:00	Eastern / Central	Composite end Date	Time	Bottle Group(s): A											
Field ID: G1WA0014-11162016	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen: 11.41	☑ mg/L ☐ % sat	Total Res. Chlorine (mg/L): —													
STORET #: G1WA0014	Temp (C): 14.41	pH: 7.44	Sample Depth: 0.1	☐ ft ☑ m	Sp. Conductance (umho/cm): 92												
Latitude: 30.5325 ☑ dd ☐ dms	Longitude: -83.9501 ☑ dd ☐ dms	Salinity (ppt): 0.04	Comments														
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date: Time:	Eastern / Central	Composite end Date	Time	Bottle Group(s)											
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)													
STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)												
Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Salinity (ppt)	Comments														
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date: Time:	Eastern / Central	Composite end Date	Time	Bottle Group(s)											
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)													
STORET #	Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)												
Latitude: ☐ dd ☐ dms	Longitude: ☐ dd ☐ dms	Salinity (ppt)	Comments														

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	11/16/16 13:00			SK	11-16-16 / 1:01

Cooler Packing Worksheet for Request: RQ-2016-11-14-39
Moriah Creek, Chicken Branch, Ward Creek and Caney Branch
Ship Cooler On: 11/14/2016 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 kits including metals
Bottle Group B: freshwater kits no metals
Bottle Group C: SCI

Requested Analyses:

Bottle Group: A # of Sites: 1

Container ID: P-1L **Qty: 1** **Preservation: ICE** **Lot #** 1606583
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-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 1** **Preservation: ICE** **Lot #** 1170333
Description: Brown Plastic Bottle 1L

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

Container ID: P-500ML **Qty: 1** **Preservation: HNO3** **Lot #** 556650 45

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

153, 329

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

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Container ID: P-500ML **Qty: 1** **Preservation: ICE And H2SO4** **Lot #** 556604 5

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: 1** **Preservation: ICE-FLTR** **Lot #** 556578

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: 2

Container ID: P-1L **Qty: 2** **Preservation: ICE** **Lot #** 556583

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-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 2** **Preservation: ICE** **Lot #** 1170333

Description: Brown Plastic Bottle 1L

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

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Container ID: P-500ML **Qty: 2** **Preservation: ICE And H2SO4** **Lot #** 0006045

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: 2** **Preservation: ICE-FLTR** **Lot #** 0006578l

Description: Plastic Bottle 125 mL

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

Bottle Group: C # of Sites: 2

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

Description: Plastic Jar 2 L

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

Cooler Packed By: RJB Date: 11-14-16

DEP Cooler ID #(s): 2

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 # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-11-14-39