



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE 1 OF 16

Data Qualified?
Yes / No

STORET Station Name: Tanyard Branch 100 meters upstream of Ralph Strong Rd.

Date: 02/23/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0005

Latitude: 30.5832

(Decimal Degrees)

WBID: 595

RQ - 2016-02-22-66

ORG ID: 21FLWQA

Longitude: -84.5519

(Decimal Degrees)

Receiving Body of Water: Little River

Field ID: G1WA0005

County: Gadsden

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

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Low / <u>Normal</u> / High / Flooded						Matrix: <u>Fresh</u> / Marine / DI					
Meter ID# Biology 7				Photos: <u>Yes</u> / No				Tide Falling: Yes / No / <u>NA</u>			
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)	
<u>EST</u>	9:15	0.3	0.5	6.74	67.6	6.76	0.06	VOB	126	15.56	
CEN	-	-	-	-	-	-	-	-	-	-	

Biological Samples Collected: None HA SCI LVS RPS LVI Other

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC ☐ Other	☒ Ice ☒ H2SO4	SA-5259020	09-16-2016	☐ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☒ BOD-INHB ☐ BOD-UNIN	☒ Ice			
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other	☒ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ 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	☐ Ice ☐ Other			

Notes: SBto: 75667 VPDB: 9512 RPS: 7751	Place Label Here (If Available)
Signature: <u>Curtis Musson</u>	Date: <u>02-23-2016</u>

Field Parameters Entered into LIMS: CM 2-24-16

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

~~Spring Road~~ AR VEGETATION

Storet Number: G1WA0005

Signature: C. Webb

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.

[illegible]

VPDB: 9512

Search Method

- ☒ Macrophyte ID
☐ Visit ID (SBIO Sample ID)
☐ STORET Station Number

Search:

9512

STORET Station:

SCINAME	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
▶ Alternanthera philoxeroides	P									
Cicuta maculata		P								
Colocasia esculenta	P				P					
Myriophyllum aquaticum	P	P	P	P	P	D		P	P	P
Polygonum hydropiperoides	P	D	P		P			P		P
Salvinia minima	D									

CM 6-24-2016

679

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Tanvard Branch 100 M upstream of ^{Railroad} _{road} County: Gadsden Date: 2-23-2016 Investigators: Curtis M. Murray

Transect (m) Point 1=right 9=left Algal Thickness Rank (N-6, X) Estimated Canopy Cover

STORET Station Number:

GIWA0005

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

Secchi depth 100
Estimated?

points ranked 4-6 66
total points assessed 99
% points ranked 4-6 67

Check accompanying data collected at same site/date.

Algal mat sample
Linear Veg Survey X
Habitat Assessment X
SCI/Biorecon X
Water sample X

RQ-2016-02-22-66

Transect (m)	Point	1=right	9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
10	1			5		
	2			5		
	3			5		
	4			5		
	5			5		24
	6			5		
	7			5		
	8			5		
	9			5		

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

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

Transect (m)	Point	1=right	9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
30	1			4		
	2			4		
	3			4		
	4			4		
	5			5		39
	6			N		
	7			4 5		
	8			6		
	9			6		

SBTO 75667

RPS: 7751

Total depth 0.5m

Transect (m)	Point	1=right	9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
40	1			5		
	2			5		
	3			4		
	4			N		
	5			4		14
	6			4		
	7			4		
	8			4		
	9			5		

Transect (m)	Point	1=right	9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
50	1			6		
	2			5		
	3			N		
	4			N		
	5			6		17
	6			6		
	7			4		
	8			N		
	9			N		

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 9000-5 Stream/River Habitat Assessment Field Sheet

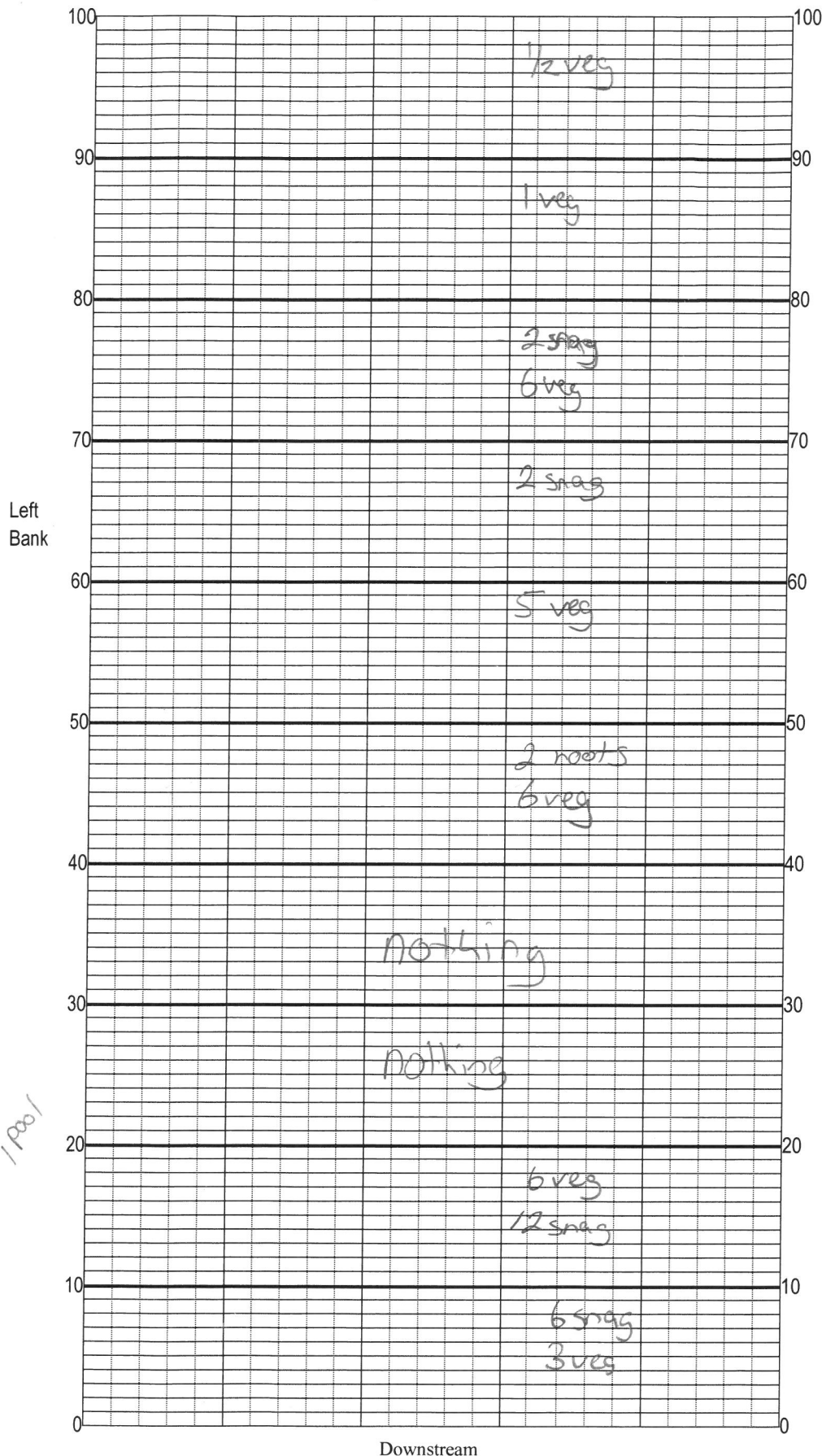
SAMPLING AGENCY: <u>FDEP</u>		STORET STATION NUMBER: <u>GIWA0005</u>	DATE (MM/DD/YY): <u>02/23/2016</u>	RECEIVING BODY OF WATER: <u>Quincy Creek</u>
REMARKS:	COUNTY: <u>Gadsden</u>	LOCATION: <u>Tanyard Branch 100 mtrs</u> <u>UPstream of Ralph Sims Rd</u>	FIELD ID/NAME: <u>GIWA0005</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <u>6</u>	5 4 3 2 1
Substrate Availability <u>4</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat <u>5</u> 4 3 2 1
Water Velocity <u>19</u> <u>0.30 m/s</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 <u>19</u> 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 <u>2</u> ----- Primary Score <u>31</u>	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 <u>2</u> 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>20</u>	<u>20</u> 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <u>10</u> Left Bank <u>10</u>	<u>10</u> 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <u>9</u> Left Bank <u>9</u>	10 9	8 7 6	5 4	3 2 1
----- Secondary Score <u>78</u>				

109 **TOTAL SCORE**

Date: <u>02/23/2016</u>	Analyst: <u>Ben Ralls</u>	Signature:
-------------------------	---------------------------	------------

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



Location: Tanager Branch 100 meters upstream of Ralph Strong Rd.
 Date: 2/23/16
 Sampler: B. Ralys

100 m: Latitude _____	
Longitude _____	
0 m: Latitude <u>30.5832</u>	
Longitude <u>-84.5519</u>	
Substrates: Code key, draw proportionate habitat abundance.	
☐ Snags	<u>2</u> %
☐ Roots/undercut banks	<u>0.2</u>
☐ Leaf Packs (or mats)	<u>0</u>
☐ Aquatic Macrophytes	<u>2</u>
☐ _____	_____
☐ _____	_____
☐ Pools	total # observed = <u>1</u> # range expected = <u>6-11</u>
Average width <u>1.5</u> m	
Average depth <u>0.5</u> m	
Velocity measured at <u>0</u> meter mark.	
WQ & chemistry taken at <u>0</u> 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.	

Plants observed / other notes:

27 1/2 veg 3.3 seconds
22 snag .30 m/sec
2 roots
6.4m Habitat

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

85 sweeps macro
5.5 sweeps snag

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

Biology 7

RQ-2016-02-22-66

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 _____

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	02/22/2016	15:39	21.66	8.79	8.74	99.3	83.9	—	P	L
ICV	Curtis Musson	02/22/2016	15:40	21.69	8.79	8.74	99.4	83.9	—	P	L
CCV	Ben Ralys	2/23/16	7:22	20.91	8.93	8.93	99.9	78.8	—	P	L
CCV	Curtis Musson	2/23/16	3:40	22.2	8.70	8.8	101.1	75.7	—	P	L

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 μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	02/22/2016	15:43	CC14162	10/15/2016	996	996	P	L
ICV	Curtis Musson	02/22/2016	15:44	CC14162	10/15/2016	996	996	P	L
CCV	Ben Ralys	2/23/16	7:24	CC14162	10/15/2016	996	996	P	L
CCV	Curtis Musson	2/23/16	3:42	CC13882	10/15/2016	101.1	104	P	L

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

Conductivity Acceptance criteria $\pm 5\%$

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	02/22/2016	15:46	156244	10/2017	7.0	7.0	-22.6	P	L
Calibr.	Curtis Musson	02/22/2016	15:48	154634	07/2017	4.0	4.0	152.8	P	L
Calibr.	Curtis Musson	02/22/2016	15:49	146934	10/2016	10.0	9.98	-144.2	P	L
ICV	Curtis Musson	02/22/2016	15:51	156244	10/2017	7.0	6.93	-17.4	P	L
CCV	Ben Ralys	2/23/2016	7:25	154634	07/2017	4.0	4.07	142.6	P	L
CCV	Curtis Musson	2/23/16	3:4	146934	10/2016	10.0	10.04	-192.0	P	L

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

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 $\pm 5\%$ or ± 0.05 m, whichever is greater

Tanyard Branch

Megansett Arm Run

Quincy Creek

Little River

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Tanyard Branch, Megginis Arm Run, Quincy Creek and Little River

last revised Nov 10, 2015

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: Curtis Mussen

Project ID: SMP

Collected By: Benjamin Ralys / Curtis MussenSampling Agency: FDEP

Location <u>Tanyard Branch 100 meters upstream of Ralph</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/23/16</u> Time <u>0915</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)
Field ID <u>GIWA0005</u>	<u>Strong Rd</u>	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh surface</u>		Diss. Oxygen <u>6.74</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>		
STORET # <u>GIWA0005</u>		Temp (C) <u>15.56</u>	pH <u>6.76</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>126</u>		<u>BK</u>
Latitude <u>30.5832</u>	☒ dd ☐ dms	Longitude <u>-84.5519</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.06</u>	Comments			
Location <u>Quincy Creek 100 Meters upstream of Ralph Strong Rd</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/23/16</u> Time <u>0840</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID <u>GIWA0018</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>9.44</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>		
STORET # <u>GIWA0018</u>		Temp (C) <u>13.74</u>	pH <u>6.65</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>74</u>		<u>CN B A</u>
Latitude <u>30.5837</u>	☒ dd ☐ dms	Longitude <u>-84.5503</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.03</u>	Comments			
Location <u>Quincy Creek upstream of SR 12</u>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>2/26/2016</u> Time <u>11:30</u>		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID <u>GIWA0019</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>9.81</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>		
STORET # <u>GIWA0019</u>		Temp (C) <u>14.59</u>	pH <u>6.96</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>70</u>		<u>CN B A</u>
Latitude <u>30.5923</u>	☒ dd ☐ dms	Longitude <u>-84.5634</u>	☒ dd ☐ dms	Salinity (ppt) <u>0.03</u>	Comments			
Location <u>Little River 100 Meters upstream of SR 12</u>		☐ Comp ☐ Grab	Collection (comp begin or grab) Date <u>2-23-2016</u> Time <u>12:05</u>		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID <u>GIWA0020</u>		Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>8.91</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) <u>—</u>		
STORET # <u>GIWA0020</u>		Temp (C) <u>16.27</u>	pH <u>6.75</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>88</u>		<u>B</u>
Latitude <u>30.5882</u>	☐ dd ☐ dms	Longitude <u>-84.4957</u>	☐ dd ☐ dms	Salinity (ppt) <u>0.04</u>	Comments			

Relinquished By: <u>Curtis Mussen</u>	Date/Time <u>2-23-16</u>	Shipping Method <u>DROP OFF</u>	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
--	-----------------------------	------------------------------------	--------------	-----------	------------------	-----------	--------------	-----------

15:15

Request Number: RQ-2016-02-22-66

Tanyard Branch, Megginnis Arm Run, Quincy Creek and
Little RiverFlorida Department of Environmental Protection
Central Laboratory Submittal FormPage 1 of 3
last revised Nov 10, 2015

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Location <i>Megginnis Arm Run at Meridian Woods</i>		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <i>2/23/2016</i> Time <i>13:30</i>	☒ Eastern ☐ Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2) <i>B, D</i>
Field ID <i>GIWA0009</i>		Matrix (type, e.g., Salt, Fresh, etc) <i>Fresh</i>		Diss. Oxygen <i>12.56</i> ☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____	
STORET # <i>GIWA0009</i>		Temp (C) <i>19.81</i>	pH <i>8.56</i>	Sample Depth <i>0.3</i> ☐ ft ☒ m	Sp. Conductance (umho/cm) <i>121</i>	
Latitude <i>30.481</i> ☒ dd ☐ dms		Longitude <i>-84.2792</i> ☒ dd ☐ dms		Salinity (ppt) <i>0.06</i>		
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						

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	Received By:	Date/Time	Relinquished By:	Date/Time	Received By:	Date/Time
------------------	-----------	-----------------	--------------	-----------	------------------	-----------	--------------	-----------

Date of Request: 10-FEB-2016
 Created By: RALYS_B On: 10-FEB-2016
 Modified By: SWANSON_C On: 10-FEB-2016
 Customer: WQAP
 Project: SMP
 Division:
 District:
 Sampling Event: Tanyard Branch, Megginis Arm Run, Quincy Creek and Little River

Send Coolers To:

Phone: 850-245-8443
 2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Benjamin Ralys

Program Module Number:

Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 10-FEB-2016
 Biology Request Reviewed By: SWANSON_C On: 10-FEB-2016
 Sampling Kit Required: YES Ship on: 18-FEB-2016
 Sampling Kit Shipped: YES On: 18-FEB-2016
 Sampling Kit Packed By: REYNOLDS_T
 Preservatives Needed: NO
 Date to Receive Samples: 23-FEB-2016
 Received By:

Send Final Report To:

2600 Blair Stone Rd
 MS #3560
 Tallahassee, FL 32399-2400
 Attn: Katrina Sanders

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments:

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-NO2	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite in aqueous matrices as mg N/L
Nitrite-N		
W-TDS	Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
TSS		

Bottle Type: P-1L	Number of Bottles: 2	Preserved With: ICE
BOD-UNIN	Template: DEFAULT	(SM 5210 B) BOD, NOT nitrogen-inhibited
Biochemical Oxygen Demand-5 Day		

Bottle Type: BP-1L	Number of Bottles: 2	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO ₃
----------------------	----------------------	----------------------------------

Bottle Group A (Water) With 2 Samples:

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: HNO3
W-ICP	Template:	(EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
Calcium		
Chromium		
Iron		
Magnesium		
Nickel		
Potassium		
Sodium		
Zinc		
W-ICPMS	Template:	(EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects
Arsenic		
Cadmium		
Copper		
Lead		
Silver		

Bottle Type: P-500ML	Number of Bottles: 2	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		

Bottle Type: P-125ML	Number of Bottles: 2	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
O-Phosphate-P		

Bottle Group B (Water) With 3 Samples:

Bottle Type: P-500ML	Number of Bottles: 3	Preserved With: ICE And H2SO4
W-NH3	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO2NO3	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO2NO3-N		
W-S-A-TP	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
Total-P		
W-TKN	Template: DEFAULT	(EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
Kjeldahl Nitrogen		
W-TOC	Template: DEFAULT	(SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
Organic Carbon		

Bottle Type: P-125ML	Number of Bottles: 3	Preserved With: ICE-FLTR
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
O-Phosphate-P		

Bottle Type: P-1L	Number of Bottles: 3	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
W-COLOR	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
Color (true)		
W-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-NO2	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite in aqueous matrices as mg N/L
Nitrite-N		

Bottle Group B (Water) With 3 Samples:

Bottle Type: P-1L Number of Bottles: 3 Preserved With: ICE
W-TDS Template: DEFAULT (SM 2540 C-97) Total Dissolved Solids in aqueous matrices
TDS
W-TSS Template: DEFAULT (SM 2540 D-97) Total Suspended Solids in aqueous matrices
TSS
Bottle Type: P-1L Number of Bottles: 3 Preserved With: ICE
BOD-UNIN Template: DEFAULT (SM 5210 B) BOD, NOT nitrogen-inhibited
Biochemical Oxygen Demand-5 Day
Bottle Type: BP-1L Number of Bottles: 3 Preserved With: ICE
CHLSUITE-W Template: DEFAULT (SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio
Chlorophyll-a, Corrected
Chlorophyll-a, Uncorrected
Phaeophytin-a

Bottle Group C (Biological) With 2 Samples:

Bottle Type: PJ-2L Number of Bottles: 4 Preserved With: Formalin
MI-FW-QLDC Template: DEFAULT (SOP-IZ06) No. Taxa of FW macroinverts, qual samp, 20 dipnets.
*Macroinvert-FW-Qual-DipnetX20-#Taxa-Rep2
*Stream Condition Index (SCI)

Bottle Group D (Biological) With 2 Samples:

Bottle Type: PT-50ML Number of Bottles: 2 Preserved With: ICE
ALGAL_ID Template: DEFAULT (SOP-AB05) Qualitative assessment of algal taxa present without counts
*Dominant sample taxon

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

Cooler Packing Worksheet for Request: RQ-2016-02-22-66
Tanyard Branch, Megginnis Arm Run, Quincy Creek and Little River

Ship Cooler On: 2/18/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

No preservatives needed.

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00058886

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00058886

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 2 Preservation: ICE

Lot # 1166942

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00063547

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 2 Preservation: ICE And H2SO4

Lot # 00063547

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: 2 Preservation: ICE-FLTR

Lot # 00063891

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: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00063871
63459

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-NO2

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)

Nitrite in aqueous matrices as mg N/L

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00063459

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1166942

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 60063547

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: 3 Preservation: ICE-FLTR

Lot # 00063891

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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 # BP0454

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Bottle Group: D

of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: Tyler Reynolds

Date: 02/18/16

DEP Cooler ID #(s): 2 Red 1 Blue

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-2016-02-22-66