

QA 3/2/16



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2016

PAGE 1 OF 12

Data Qualified?
Yes / No

STORET Station Name: Freeman Creek Upstream of SR 267 (Bloxxham Cutoff) Date: 01/19/2016
(mm/dd/yyyy)

STORET Station ID: G1WA0010 Latitude: 30.3887
(Decimal Degrees)

WBID: 954 RQ - 2016-01-18-38 ORG ID: 21FLWQA Longitude: -84.5844
(Decimal Degrees)

Receiving Body of Water: Lake Talquin Field ID: G1WA0010 County: Leon

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Curtis Musson		✓				✓	✓	
Ben Ralys			✓			✓		
Justin Wallheiser				✓		✓		

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 / Normal / <u>High</u> / Flooded	Matrix: <u>Fresh</u> / Marine / DI
Meter ID# <u>Biology #7</u> Photos: <u>Yes</u> / No	Tide Falling: Yes / No / <u>NA</u>

Field Sample										
Time Zone	Time	Total Depth (m)	Sample Depth	Temp (°C)	DO (mg/L)	DO (%SAT)	COND (µmhos/cm)	Salinity (ppt)	pH	Secchi Disk (m)
<u>EST</u>	<u>9:25</u>	<u>1.0 m</u>	<u>15 m</u>	<u>8.80</u>	<u>9.37</u>	<u>80.7</u>	<u>61</u>	<u>0.02</u>	<u>3.26</u>	<u>0.6</u>
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 / TN ☐ Other	☒ Ice ☒ H ₂ SO ₄	<u>5113230</u>	<u>04/23/16</u>	☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Macroinvertebrates	☒ MI-FW-QLDC	☒ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			
<u>BOD</u>	<u>BOD-INHB</u> <u>BOD-UNIN</u>	<u>Ice</u>			

Contains 1:1 Sulfuric Acid SA-5113230 EXP: 04/23/16 Warning! Do Not Inhale

Chlorophyll CHL SOITE-W Physiols/Aggluc TSS/turbidity Alk/Color Ice Ice Ice

QA/QC Sample Information

Duplicate

Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____		
Time: _____		Total Depth (m): _____				
Parameter Suite	Parameter Methods		Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ TKN / TP / NOx / NH3 / TOC / TN ☐ Other _____		☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP		☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ oP	☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
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-PSCL-TQA ☐ W-UHERB-AA ☐ W-GLYPH		☐ Ice ☐ Other _____			

Field Blank

Equipment Blank Equipment ID#

Time Zone: EST CEN	Time: _____	Field ID: _____	Location: _____
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Notes: Cond did not Pass CCV		Place Label Here (If Available)
Signature: <i>[Signature]</i>		
Date: 1-19-2016		

Field Parameters Entered into LIMS:

CM / 1-25-2016

(Initials/Date)

Field Parameters QC in LIMS:

BR / 1/27/16

(Initials/Date)

Date Migrated to STORET:

DT 3-11-16

(Initials/Date)

Field Sheets Scanned/Saved:

C1 3-16-16

(Initials/Date)

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

SAMPLE ID GIWA0010 ORG ID 2IFL WQA LATITUDE 30.3867
 COUNTY Leon STORET # GIWA0010 LONGITUDE -84.5844
 DATE 01-19-2016 TIME 0925 EST SAMPLING AGENCY FDEP
 SITE NAME Freeman Creek upstream of SR 267 (Bloxham cutoff)
 FIELD ID/NAME GIWA0010 RECEIVING BODY OF WATER Lake Talquin

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>73</u> Silviculture <u>27</u> Field/Pasture <u> </u> Agricultural <u> </u> Residential <u> </u> Commercial <u> </u> Industry <u> </u> Other (Specify) <u> </u>								Landscape Development Intensity Index (LDI) <u>1.16</u>
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☒ No evidence ☐ Slight ☐ Moderate ☐ Heavy						Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>2.8</u> m wide <u>0.76</u> m/s <u> </u> m/s <u> </u> m/s <u>1.0</u> m deep <u> </u> m deep <u> </u> m deep		
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>>18m</u> Right Bank: <u>>18m</u>				Hydrologic Modification Score (per FT 3101) <u> </u>				
High Water Mark: <u> </u> + <u> </u> = <u> </u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%) <u>71</u>				

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify): <u> </u>		Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐ Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐	
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon % Coverage <u> </u> INVERT # Times Sampled <u>10</u> PERI # Times Sampled <u> </u>			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.5</u> <u>8.80</u> <u>3.26</u> <u>9.37</u> <u>80.7</u> <u>61</u> <u>0.03</u> <u>0.6</u> Mid: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Bottom: <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> Meter ID: <u>Biology #7</u> TOTAL DEPTH <u>1.0m</u>		
Woody Debris (Snags) <u>2</u> <u>10</u> <u> </u> Undercut Banks / Roots <u> </u> <u> </u> <u> </u> Leaf Packs or Mat <u>0.3</u> <u>5</u> <u> </u> Aquatic Vegetation <u> </u> <u> </u> <u> </u> Rock or Shell Rubble <u> </u> <u> </u> <u> </u> Sand <u> </u> <u>5</u> <u> </u> Mud / Muck / Silt <u> </u> <u> </u> <u> </u> Other <u> </u> <u> </u> <u> </u> Other <u> </u> <u> </u> <u> </u>			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number <u>SA5113230</u> Exp: <u>4-23-2016</u> Algae Sample Taken? ☐ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: <u> </u> Exp: <u> </u>		
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☒ ☐ ☐ ☐ Fish: ☒ ☐ ☐ ☐ Aquatic Plants: ☒ ☐ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐ Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) ☐ Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐		
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) <u> </u>			AMBIENT FIELD CONDITIONS / NOTES: <u>Cond did not pass CCV</u> <u>High water, Not Flood Stage</u> ☐ The antecedent hydrologic conditions have been met to my best knowledge.		
SAMPLING TEAM <u>Conis Musser, Ben Ralps, Justin Wallheizer</u>			SIGNATURE: <u> </u> DATE: <u>1-19-2016</u>		

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

SAMPLING AGENCY: <u>FDEP</u>		STORET STATION NUMBER: <u>61WA0010</u>	DATE (MM/DD/YY): <u>1-19-2016</u>	RECEIVING BODY OF WATER: <u>Lake Talquin</u>
REMARKS:	COUNTY: <u>Leon</u>	LOCATION: <u>Freeman Creek upstream of SR 257</u>		FIELD ID/NAME: <u>61WA0010</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>5</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>3</u> <u>22%</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 5 4 3 2 1
Water Velocity <u>20</u> <u>0.26 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 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 <u>18</u> ----- Primary Score <u>46</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 2 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>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability Right Bank <u>8</u> Left Bank <u>8</u> <u>+, +</u>	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. 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 <u>10</u> Left Bank <u>10</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities 3 2 1
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>10</u> ----- Secondary Score <u>76</u>	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

TOTAL SCORE

122

Date: <u>1-19-2016</u>	Analyst: <u>Ben Ralls</u>	Signature: 
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

Left Bank

Upstream

Right Bank

100

100

↓ Smothering Notes

Freeman Creek upstream

Location: of SR 267 (Blochan curve)

Date: 01-19-2016

Sampler: Ben Ralys

100 m: Latitude	<u>30.3887</u>
Longitude	<u>-84.5844</u>
0 m: Latitude	
Longitude	

Substrates: Code key, draw proportionate habitat abundance.		%
☐ S	Snags	<u>2</u>
☐ R	Roots/undercut banks	
☐ L	Leaf Packs (or mats)	<u>0.3</u>
☐ M	Aquatic Macrophytes	
☐ R	Rock	
☐	Total	<u>2.3</u>
☐ P	Pools	total # observed = # range expected =

Average width	<u>2.8</u> m
Average depth	<u>1</u> m
Velocity measured at	<u>10</u> meter mark.
Velocity	<u>0.96</u> m/s

WQ & chemistry taken at 10 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	m ²	%
Snag <u>44</u>	÷ 8	<u>5.5</u> m ²	<u>2.0</u>
Root	÷ 8	m ²	
Leaf <u>6</u>	÷ 8	<u>.75</u> m ²	<u>.27</u>
Macrophyte	÷ 8	m ²	
Rock	÷ 8	m ²	
Total Available Habitat		<u>6.25</u> m ²	
Total Area		<u>280</u> m ²	
Total Unavailable Habitat		<u>273</u> m ²	

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

$$\left(\frac{100}{12 \times \text{W}} \right) \times 1 =$$

$$\left(\frac{100}{12 \times \text{W}} \right) \times 2 =$$

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Freeman Creek Upstream of SR
257 (Biorecon Cut-off)

County:

Leon

Date:

1-19-2016

Investigators:

Curtis Musson

STORET Station Number:

GLWA0010

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N			60	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		51		4	N		91
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
10	1	N			70	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		59		4	N		60
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
20	1	N			80	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		60		4	N		81
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
30	1	N			90	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		59		4	N		91
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
40	1	N			100	1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		62		4	N		90
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		
50	1	N				1	N		
	2	N				2	N		
	3	N				3	N		
	4	N		91		4	N		
	5	N				5	N		
	6	N				6	N		
	7	N				7	N		
	8	N				8	N		
	9	N				9	N		

Secchi depth 26
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
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☒
Water sample ☒
RQ- 2016-01-18-38

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

SBFO-75471

RPS-7722

BR 2/19/16

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 densimeter 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%.

Waterbody: Freeman creek upstream	Date: 1-19-2016	County: Leon	Storet Number: GIWA0010
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Analyst: <u>Curtis Musson</u>	Signature: <u>Curtis Musson</u>
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Comments: No Aquatic Vegetation

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]

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 **Biodot #7**

RQ-2016-01-18-38

Project **SMP**

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2). *Soaps like Freemay*
 (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.	Sustan W.	1/19/16	7:45	18.82	9.31	9.31	100.3	-	-	P	L
ICV	Sustan W.	1/19/16	7:52	18.2	9.4	9.6	102.0	-	-	P	L
CCV	Sustan W.	1/19/16	8:20	18.0	9.46	9.26	97.7	-	-	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Sustan W.	1/19/16	7:57	CC14162	10/15/16	996	996	P	L
ICV	Sustan W.	1/19/16	7:58	CC14162	10/15/16	996	992	P	L
CCV	Sustan W.	1/19/16	8:20	CC17882	2/15/16	101.1	107	F	L
CCV									

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.	Sustan W.	1/19/16	8:02	156294	10/20/17	7.0	7.0	18.3	P	L
Calibr.	Sustan W.	1/19/16	8:04	154634	7/20/17	4.0	4.00	19.3	P	L
Calibr.	Sustan W.	1/19/16	8:06	146934	10/20/16	10.0	10.00	193.4	P	L
ICV	Sustan W.	1/19/16	8:06	146934	10/20/16	10.0	9.99	192.8	P	L
CCV	Sustan W.	1/19/16	8:23	154634	5/12/17	4.00	4.01	154.4	P	L
CCV										

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

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

mV pH 10 Range -180 $\pm$ 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

Request Number: RQ-2016-01-18-38

Freeman Creek, Stafford Creek and Soapstone Branch

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 2
last revised Nov 10, 2015

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By:

Benjamin Ralys

Field Report Prepared By:

Sampling Agency:

FDEP

Location Freeman Creek UPstream of SR 267 (Bloxham) ^{Cutoff}		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 01-19-2016 Time 0925		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID GIWA0010		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 9.37		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A/C	
STORET # GIWA0010		Temp (C) 8.80		pH 3.26		Sample Depth 1.0		Sp. Conductance (umho/cm) 61			
Latitude 30.3887		☒ dd ☐ dms		Longitude -84.5844		☒ dd ☐ dms		Salinity (ppt) 0.03		Comments	
Location Soapstone Branch 100 meters upstream of SR 375		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 01-19-2016 Time 1355		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0012		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 10.86		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A/C	
STORET # GIWA0012		Temp (C) 9.21		pH 3.91		Sample Depth 0.5		Sp. Conductance (umho/cm) 56			
Latitude 30.38625		☒ dd ☐ dms		Longitude -84.6355		☒ dd ☐ dms		Salinity (ppt) 0.03		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		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		Sp. Conductance (umho/cm)			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)		Comments	

Relinquished By: W. S. Mussen	Date/Time 1/19/16 / 3:05	Shipping Method	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: MB	Date/Time 1/19/16 / 3:05
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Cooler Packing Worksheet for Request: RQ-2016-01-18-38

Freeman Creek, Stafford Creek and Soapstone Branch

Ship Cooler On: 1/4/2016

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.

Log Group C as a separate event, Priority 12.

Requested Analyses:

Bottle Group: A

of Sites: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00063218

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 # 00063218

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1158198

Description: Brown Plastic Bottle 1L

Analysis

CHL-CORR-W

Description

Phytoplankton chlorophyll-a (corrected for phaeophytin) and phaeophytin by spectrophotometry

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00062503

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 # 00058697

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: 2

Container ID: PT-50ML

Qty: 2 Preservation: **NONE**

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Bottle Group: C

of Sites: 1

Container ID: PJ-2L

Qty: 2 Preservation: Formalin

Lot # BIO WASH

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

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

Cooler Packed By: SK Date: 1-6-16
DEP Cooler ID #(s): 1 Cooler

Kit must also include:

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

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2016-01-18-38

