



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 8

March 2017

Data Qualified?

Yes / No

PH

Location/STORET Station Name: Black Creek upstream of Bloxham Cutoff

Date: 9/20/2017

(mm/dd/yyyy)

STORET # G1WA0023

WBID: 1054

Latitude: 30.27792

(Decimal Degrees)

County: Wakulla

RQ: 2017-09-18-25

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

Receiving Body of Water:

Field ID: G1WA0023_9202017

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

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

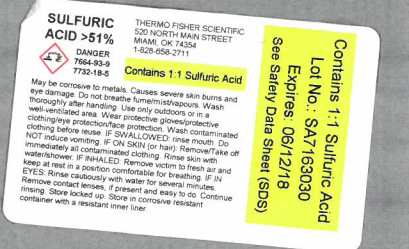
Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
	☐ Gasoline Motor

Water Level: Dry / Pooled / Low / <u>Normal</u> / High / Flooded		Matrix: <u>Fresh</u> / Marine / DI								
Meter ID# Biology #2		Photos: Yes / <u>No</u>								
		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>	8:30	0.3	0.7	6.13	72.3	4.01	0.03	0.3	57	23.65
CEN										

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#:

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	7163434	6/12/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci ☐ qPCR	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			



Notes: 1-Kit A	Black Creek upstream of Bloxham Cutoff	STORET ↓ G1WA0023	Field ID: → Black Creek upstream of Bloxham Cutoff Sept 20, 2017	G1WA0023_09062017
Signature: <i>Curtis Musson</i>			Date: 9-20-2017	

Field Parameters Entered into LIMS: DT 9/21/17 (Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: DT 9/21/17 (Initials/Date)

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

~~Do not "X" this box if there is qualified data on this name~~

pH

Meter Bio #2

RQ- 2017-08-07-20

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 03/06/2017

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	9/19/17	1622	22.8	8.611	8.61	100.0	53	—	PASS	LAB
ICV	Curtis Musson	9-19-17	1623	22.77	8.611	8.62	100.0	52	—	PASS	LAB
CCV	Curtis Musson	9-20-17	1307	26.22	8.084	8.12	100.5	52	—	PASS	LAB
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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	9/19/17	1625	170310D	3/2018	1000	1000	PASS	LAB
ICV	Curtis Musson	9/19/17	1626	170310D	3/2018	1000	1000	PASS	LAB
CCV	Curtis Musson	9/20/17	1309	170614D	6/2018	100	104	PASS	LAB
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.	Curtis Musson	9/19/17	1627	170310B	9/2018	7.0	7.00	34	PASS	LAB
Calibr.	Curtis Musson	9/19/17	1629	170614A	6/2018	4.01	4.01	206	PASS	LAB
Calibr.	Curtis Musson	9/19/17	1631	170310C	9/18	10.01	9.93	-116	PASS	LAB
ICV	Curtis Musson	9/19/17	1633	170614A	6/2018	4.01	3.81	213	PASS	LAB
CCV	Curtis Musson	9/20/17	1311	170614A	6/2018	4.01	3.86	211	PASS	LAB
CCV	Curtis Musson	9/20/17	1312	170310C	9/2018	10.01	9.50	—	PASS	LAB

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

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: 2017-09-18-25

Sand Pond, Sally Ward Spring, Eight Mile Pond

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson Ben Ralys

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

Page 1 of 3

STORET ↓
Black Creek
upstream of
Bloxham Cutoff
GIWA0023

Field ID →
Black Creek
upstream of
Bloxham Cutoff
Sept 20, 2017
GIWA0023_00062017

STORET ↓
Sand Pond
Middle
GIWA0044

Field ID →
Sand Pond
Middle
Sept 20, 2017
GIWA0044_00202017

STORET ↓
Sally Ward Spring
at Wakulla Park Dr.
GIWA0021

Field ID →
Sally Ward
Spring at
Wakulla
Park Dr
Sept 20, 2017
GIWA0021_00202017

☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/20/17 Time 8:30		Eastern Central		Collection (comp begin or grab) Date / Time /		Bottle Group(s)	
Matrix (Salt, Fresh) fresh		Diss. Oxygen (mg/L) 6.13							
Temp (C) 23.65		pH 4.61		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 57		A	
Salinity (ppt) 0.03		Comments							
Latitude (Decimal Degrees) 30.27792				Longitude (Decimal Degrees) -84.3858					
☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/20/17 Time 7:50		Eastern Central		Collection (comp begin or grab) Date / Time /		Bottle Group(s)	
Matrix (Salt, Fresh) fresh		Diss. Oxygen (mg/L) 17.00							
Temp (C) 27.29		pH 5.81		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 13		A	
Salinity (ppt) 0.01		Comments							
Latitude (Decimal Degrees) 30.334				Longitude (Decimal Degrees) -84.387					
☐ Comp ☒ Grab		Collection (comp begin or grab) Date 9/20/17 Time 2:80		Eastern Central		Collection (comp begin or grab) Date / Time /		Bottle Group(s)	
Matrix (Salt, Fresh) fresh		Diss. Oxygen (mg/L) 7.54							
Temp (C) 20.78		pH 7.54		Sample Depts (m) 0.3		Sp. Conductance (umho/cm) 341		A	
Salinity (ppt) 0.16		Comments							
Latitude (Decimal Degrees) 30.2414				Longitude (Decimal Degrees) -84.3109					

Relinquished By: Curtis Musson	Date/Time: 9-20-2017 / 12:25	Number of Coolers: 3	Received By: SR	Date/Time: 9-20-2017 / 12:48
--------------------------------	------------------------------	----------------------	-----------------	------------------------------

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-09-18-25
 Sand Pond, Sally Ward Spring, Eight Mile Pond
 Customer: WAS-SECT
 Project ID: SMP

Requester: Curtis Musson
 Collected By: Curtis Musson Ben Rabys
 Field Report Prepared By: Ben Rabys
 Sampling Agency: FDEP

Page 2 of 3

Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
☐ Comp	☒ Grab	9/20/17	9:38				
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		pH		Sample Depts (m)	
Fresh		3.40		7.45		0.3	
Temp (C)						Sp. Conductance (umho/cm)	
26.66						88	
Salinity (ppt)		0.04		Comments			
Latitude (Decimal Degrees)		30.32635		Longitude (Decimal Degrees)		-84.30273	
☐ Comp	☒ Grab	9/20/17	9:38				
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		pH		Sample Depts (m)	
Fresh		2.30		7.02		0.3	
Temp (C)						Sp. Conductance (umho/cm)	
23.30						298	
Salinity (ppt)		0.14		Comments			
Latitude (Decimal Degrees)		30.3261		Longitude (Decimal Degrees)		-84.1481	

STORET ↓



Eight Mile Pond Middle
 G1WA0024

Field ID →
 Eight Mile Pond Middle
 Sept 20, 2017
 G1WA0024_00202017

STORET ↓



Soapstone Branch
 100 meters upstream
 01SK378

Field ID →
 Soapstone Branch
 100 meters upstream
 01SK378

STORET ↓



Chicken Branch at Old Plank Rd
 G1WA0031

Field ID →
 Chicken Branch at Old Plank Rd
 Sept 20, 2017
 G1WA0031_00202017

Relinquished By: Curtis Musson
 Date/Time: 9-20-2017 / 12:25
 Number of Coolers: 3
 Received By: SR
 Date/Time: 9-20-2017 / 12:48

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: 2017-09-18-25

Sand Pond, Sally Ward Spring, Eight Mile Pond
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Ben Ralys
Sampling Agency: FDEP

Page 3 of 3

Lake Lafayette Drain STORET ↓
250 meters
downstream of
Weems Rd
G1WA00007

Field ID →
Lake Lafayette
Drain 250 meters
downstream of
Weems Rd
Sept 20, 2017 G1WA00007_09202017

Godby Drainage STORET ↓
Ditch at
Progress Dr.
G1WA00001

Field ID →
Godby Drainage
Ditch at
Progress Dr.
Sept 20, 2017 G1WA00001_09202017

Collection (comp begin or grab)		Time	Collection (comp begin or grab)		Time	Bottle Group(s)
Comp	Grab	Date	Eastern	Central	Date	
☒	☐	9/20/17	☒	☐	12:05	A, B
Matrix (Salt, Fresh)						
Diss. Oxygen (mg/L)		6.95				
Temp (C)	26.79	pH	7.43	Sample Depts (m)	0.3	C, D
Salinity (ppt)	0.05	Comments				F
Latitude (Decimal Degrees)		30.4544		Longitude (Decimal Degrees)		-84.2204
☒	☐	9/20/17	☒	☐	10:25	A, C
Matrix (Salt, Fresh)						
Diss. Oxygen (mg/L)		3.54				
Temp (C)	25.35	pH	7.14	Sample Depts (m)	0.3	D, E
Salinity (ppt)	0.06	Comments				
Latitude (Decimal Degrees)		30.444661		Longitude (Decimal Degrees)		-84.344711
☐	☐		☐	☐		
Matrix (Salt, Fresh)						
Diss. Oxygen (mg/L)						
Temp (C)		pH		Sample Depts (m)		
Salinity (ppt)		Comments				
Latitude (Decimal Degrees)				Longitude (Decimal Degrees)		

Relinquished By: Curtis Musson	Date/Time: 9-20-2017 / 12:25	Number of Coolers: 3	Received By: SR	Date/Time: 9-20-2017 / 12:48
--------------------------------	------------------------------	----------------------	-----------------	------------------------------

Cooler Packing Worksheet for Request: RQ-2017-09-18-25
Sans, Sally, 8 mile, chicken, Laffayette Drain, Godby, Black, Soapstone

Ship Cooler On: 9/7/2017
Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S
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
Group B: Metlas
Group C: E.coli
Group D: Tracers (A-HERB Short list)
Group E: PCR (FILTER & 183)
Group F: PCR (FILTER & GFD)

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: P-1L

Qty: 8 Preservation: ICE

Lot # 00067591

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-SO4-IC
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)
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 8 Preservation: ICE

Lot # 1199138

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 8

Preservation: ICE And H2SO4

Lot # 00068654

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: 8

Preservation: ICE-FLTR

Lot # 00068347

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: 1

Container ID: P-500ML

Qty: 1

Preservation: HNO3

Lot # 00068654

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

Bottle Group: C

of Sites: 5

Container ID: P-250ML-WO-THI

Qty: 5

Preservation: ICE

Lot # L17048

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: D

of Sites: 4

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00068050

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: E

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

PUR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Bottle Group: F

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

PCR-GFD

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction

Cooler Packed By: SR

Number of Coolers: 4

Date: 9-7-17

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-2017-09-18-25