



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Date Qualified?
Yes / No

STORET Station Name: Black Creek upstream of Bloxham Cutoff

Date: 5/18/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0023

Latitude: 30.27792

(Decimal Degrees)

WBID: 1054

RQ - 2016-05-16-33

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: G1WA0023

County: Wakulla

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys		X		X	X	X
Justin Wallheiser			X			

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☐ Pole
☐ Carboy	☒ Syringe
☐ Dipper	☐ Other <u>Gitter</u>
Equipment ID	
Collection Method	
☒ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ 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°)
<u>EST</u>	<u>9:20</u>	<u>0.3</u>	<u>0.6</u>	<u>1.04</u>	<u>12.0</u>	<u>5.74</u>	<u>0.02</u>	<u>0.2</u>	<u>55</u>	<u>20.85</u>
CEN										

Biological Samples Collected: None HA SCI LVS RPS LVI Other

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	<u>5259020</u>	<u>9/16/16</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO2			☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Kit B/D)	☒ Alkalinity / W-F / W-TSS / TURBIDITY	☐ 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	☐ Ice			
	☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Other			

Contains
1:1
Sulfuric Acid
SA-5259020
EXP: 09/16/16
Warning!
See MSDS

Notes:

G1WA0023 18 May 2016
Black Creek upstream of Bloxham Cutoff

Signature: Burk

Date: 5/18/16

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

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 Biology #2 RQ- 2016-05-16-33 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 03/04/2016

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.	Ben Roberts	5/18/16	8:15	22.63	8.64	8.67	100.3	43.1	NA	Pass	Lab
ICV	Ben Roberts	5/18/16	8:17	22.64	8.64	8.70	100.7	43.1	NA	Pass	Lab
CCV	Justin Galloway	5/18/16	8:18	24.9	8.27	8.9	107.6	48.2	NA	Fail	Lab
CCV			14:30								

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.	Ben Roberts	5/18/16	8:18	160330D	4/2017	1,000	1,000	P	Lab
ICV	Ben Roberts	5/18/16	8:19	160330D	4/2017	1,000	1,001	P	Lab
CCV	Justin Galloway	5/18/16	8:20	CC13882	7/15/2016	101.1	98	P	Lab
CCV			14:32						

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.	Ben Roberts	5/18/16	8:20	160330B	10/2017	7.0	7.0	-15.5	P	Lab
Calibr.	Ben Roberts	5/18/16	8:22	154634	02/2017	4.0	4.0	163.4	P	Lab
Calibr.	Ben Roberts	5/18/16	8:25	160330C	10/2017	10.0	9.88	-78.5	P	Lab
ICV	Ben Roberts	5/18/16	8:22	154634	02/2017	4.0	4.0	163.5	P	Lab
CCV										
CCV										

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

Request Number: RQ-2016-05-16-33

Florida Department of Environmental Protection Central Laboratory Submittal Form

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last revised Apr 7, 2016

Sally Ward Spring, Eight Mile Pond, Godby Ditch and
Black Creek

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By: Justin Wallheiser

Project ID: SMP

Collected By: B. Ralys J. Wallheiser

Sampling Agency: FDEP

Location Sally Ward Spring at Wakulla Park Dr.		☒ Comp ☒ Grab	Collection (comp begin or grab) Date 5/18/16 Time 9:55	☒ Eastern ☒ Central	Composite end Date Time	Bottle Group(s) (See pg 2)
Field ID GIWA0021		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 3.23	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	A
STORET # GIWA0021		Temp (C) 20.72	pH 7.41	Sample Depth 0.3	Sp. Conductance (umho/cm) 333	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.16	Comments —			
Location Black Creek upstream of Bloxham Cutoff		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/18/16 Time 9:20	☒ Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID GIWA0023		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 1.04	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	A
STORET # GIWA0023		Temp (C) 20.88	pH 5.74	Sample Depth 0.3	Sp. Conductance (umho/cm) 55	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.02	Comments —			
Location Eight Mile Pond Middle		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/18/16 Time 10:45	☒ Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID GIWA0024		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 7.73	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	A
STORET # GIWA0024		Temp (C) 25.92	pH 7.15	Sample Depth 0.3	Sp. Conductance (umho/cm) 86	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.04	Comments —			
Location Godby Drainage Ditch at Vega Dr.		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 5/18/16 Time 1:38	☒ Eastern ☒ Central	Composite end Date Time	Bottle Group(s)
Field ID GIWA0025		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 9.53	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —	A, B.
STORET # GIWA0025		Temp (C) 22.30	pH 7.75	Sample Depth 0.2	Sp. Conductance (umho/cm) 241	
Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	Salinity (ppt) 0.12	Comments —			

Relinquished By: Justin Wallheiser	Date/Time 5/18/16 2:05	Shipping Method	Number of Coolers Shipped:	Received By: SK	Date/Time 5-18-16/2:06
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Cooler Packing Worksheet for Request: RQ-2016-05-16-33
Sally Ward Spring, Eight Mile Pond, Godby Ditch and Black Creek

Ship Cooler On: 5/2/2016
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.

Bottle Group A: freshwater kit no metals

Bottle Group B: Algal

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00664525

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

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)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1107333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H2SO4

Lot # 0004947

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: 4 Preservation: ICE-FLTR

Lot # 0004632

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: PT-50ML

Qty: 1 Preservation: ICE

Lot # 05715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By:

Ther Reynolds
1 cooler

Date:

5/11/16

DEP Cooler ID #(s):

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-2016-05-16-33