



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

PAGE 1 OF 6

Data Qualified?
Yes / No

STORET Station Name: Sally Ward Spring at Wakulla Park Dr.

Date: 03/01/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0021

Latitude: 30.2414

(Decimal Degrees)

WBID: 1006Y

RQ - 2016-02-29-57

ORG ID: 21FLWQA

Longitude: -84.3109

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: G1WA0021

County: Wakulla

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

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

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

Water Level: Dry / Low / <u>Normal</u> / High / Flooded					Matrix: <u>Fresh</u> / Marine / DI									
Meter ID# Biology 7					Photos: Yes / 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°)				
EST	0910	0.3	8.8	3.51	39.0	7.45	0.16	UOB	338	20.59				
CEN	0919	8.3		3.47	38.6	7.45	0.16		338	20.59				

Biological Samples Collected: <u>None</u> 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	5259020	7/16/16	☒ <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					
BOD	☒ BOD-UNIN				☒ Ice					
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-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

Alternative Sticker(s) Here
(if Available)

Notes: Indian Springs (upstream) Not Flowing into Sally Ward Spring

Place Label Here
(If Available)

Signature: Curtis Musson

Date: 3/2/2016

Field Parameters Entered into LIMS: Cm 3/2/16

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved: Cm 7-1-16

(Initials/Date)

(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 7**

RQ- **2016-02-29-57**

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.	Ben Rabys	3/1/16	7:15	20.67	8.98	8.96	99.9	80.8	-	P	L
ICV	Ben Rabys	3/1/16	7:16	20.70	8.96	8.94	99.6	79.8	-	P	L
CCV	Robert Livi	3/1/16	4:09	21.93	8.76	8.75	99.9	71.7	-	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.	Ben Rabys	3/1/16	0720	CC14162	10/15/2016	996	996	P	LGB
ICV	Curtis Musson	3/1/2016	0721	CC14162	10/15/2016	996	996	P	LGB
CCV	Robert Livi	3/1/16	4:10	CC13882	7/15/16	101.1	102	P	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.	Curtis Musson	3/1/2016	0722	156244	10/2017	7.0	7.01	-23.1	P	L
Calibr.	Curtis Musson	3/1/2016	0724	154634	07/2017	4.0	4.00	149.6	P	L
Calibr.	Curtis Musson	3/1/2016	0726	146934	10/2016	10.0	10.00	197.6	P	L
ICV	Curtis Musson	3/1/2016	0728	154634	07/2017	4.0	3.97	151.9	P	L
CCV	Robert Livi	3/1/16	4:11	156244	10/17	7.0	7.05	-26.1	P	L
CCV										

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

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

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 $\pm 0.05m$, whichever is greater

Florida Department of Environmental Protection

Central Laboratory Submittal Form

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

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

 Curtis Musson
 FDEP

Project ID: SMP

Collected By: Ben Ralys

Sampling Agency:

Location Black Creek UPstream of Bloxham Cutoff		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 0833/3-1-16 Time 0833		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID GIWA0023		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 9.25		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0023		Temp (C) 11.83		pH 3.72		Sample Depth 0.3		Sp. Conductance (umho/cm) 55			
Latitude 30.27792		☒ dd ☐ dms		Longitude -84.3858		☒ dd ☐ dms		Salinity (ppt) 0.02			
Location Sally Ward Spring at Wakulla Park DC		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3-1-16 Time 0910		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0021		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 3.51		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0021		Temp (C) 20.59		pH 7.45		Sample Depth 0.3		Sp. Conductance (umho/cm) 338			
Latitude 30.2414		☒ dd ☐ dms		Longitude -84.3109		☒ dd ☐ dms		Salinity (ppt) 0.16			
Location Eight Mile Pond Middle		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3-1-16 Time 1000		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0024		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.49		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0024		Temp (C) 15.15		pH 7.16		Sample Depth 0.2		Sp. Conductance (umho/cm) 86			
Latitude 30.32635		☒ dd ☐ dms		Longitude -84.30273		☒ dd ☐ dms		Salinity (ppt) 0.04			
Location East Drainage Ditch at Ridge Rd		☐ Comp ☐ Grab		Collection (comp begin or grab) Date 3/1/16 Time 10:55		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0039		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.73		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A, B	
STORET # GIWA0039		Temp (C) 14.04		pH 6.81		Sample Depth 0.3		Sp. Conductance (umho/cm) 117			
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt) 0.05			

Relinquished By: Curtis Musson	Date/Time 3-1-16 3:47PM	Shipping Method DEP OFF	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: SK	Date/Time 3-1-16/3:49
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Request Number: RQ-2016-02-29-57

Sally Ward Spring, East Drainage Ditch, Black Creek,
Eight Mile Pond, Godby Ditch and Central Drainage
DitchFlorida Department of Environmental Protection
Central Laboratory Submittal FormPage 1 of 2
last revised Nov 10, 2015

Customer: WQAP

Requester: Benjamin Ralys

Field Report Prepared By:

Curtis Mussen

Project ID: SMP

Collected By:

Ben Ralys

Sampling Agency:

FDEP

Location Central Drainage Ditch Downstream of Orange Ave		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3-1-16 Time 12:30		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s) (See pg 2)	
Field ID GIWA0026		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 10.52		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A, B	
STORET # GIWA0026		Temp (C) 16.31		pH 7.84		Sample Depth 0.1		Sp. Conductance (umho/cm) 228			
Latitude 30.41031 ☒ dd ☐ dms		Longitude -84.03643 ☒ dd ☐ dms		Salinity (ppt) 0.11		Comments SMP					
Location Godby Drainage Ditch at VEGA AVE.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3-1-16 Time 1400		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0025		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 9.95		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0025		Temp (C) 20.44		pH 7.77		Sample Depth 0.1		Sp. Conductance (umho/cm) 184			
Latitude 30.46341 ☒ dd ☐ dms		Longitude -84.33479 ☒ dd ☐ dms		Salinity (ppt) 0.09		Comments SMP					
Location Lake Lafayette Drain 250 Meters downstream of Weems Rd.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 3-1-16 Time 15:25		☒ Eastern ☐ Central		Composite end Date Time		Bottle Group(s)	
Field ID GIWA0007		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 11.24		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L)		A	
STORET # GIWA0007		Temp (C) 18.77		pH 7.52		Sample Depth 0.1		Sp. Conductance (umho/cm) 110			
Latitude 30.4544 ☒ dd ☐ dms		Longitude -84.2204 ☒ dd ☐ dms		Salinity (ppt) 0.05		Comments SMP					
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		Longitude		Salinity (ppt)		Comments					

Relinquished By: Curtis Mussen	Date/Time 3-1-16 3:47 PM	Shipping Method DDEP	Received By:	Date/Time	Relinquished By:	Date/Time	Received By: S/K	Date/Time 3-1-16/3:49
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Cooler Packing Worksheet for Request: RQ-2016-02-29-57
Sally Ward Spring, East Drainage Ditch, Black Creek, Eight Mile Pond, Godby Ditch and

Ship Cooler On: 2/25/2016
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: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00064196

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: 7 Preservation: ICE

Lot # 00064196

Description: Plastic Bottle 1L

Analysis

BOD-UNIN

Description

BOD, NOT nitrogen-inhibited

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1166627

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 00059957

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: 7 Preservation: ICE-FLTR

Lot # 00063404

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: ABDate: 2-22-16DEP Cooler ID #(s): 3

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-2016-02-29-57