



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Do
PH

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

Date: 10/18/2017

(mm/dd/yyyy)

STORET # G1WA0021

WBID: 1006Y

Latitude: 30.2414

(Decimal Degrees)

County: Leon

RQ - 2017-10-16-25

ORG ID: 21FLWQA

Longitude: -84.3109

(Decimal Degrees)

Receiving Body of Water: Wakulla River

Field ID: G1WA0021_10182017

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

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 / 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°)
EST	11:55	0.3	7.5	3.24	36.3	7.73	0.16	VOB	337	20.75
CEN	12:00	7.0		2.93	32.8	7.72	0.16		337	20.79

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1938059

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	SA7463030	6/12/2018	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3	7233030	8/21/18	☐ <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:

Kit-A

Sally Ward Spring
at Wakulla Park Dr.

STORET ↓



G1WA0021

Field ID →
Sally Ward
Spring at
Wakulla
Park Dr

Oct 18, 2017



G1WA0021_10182017

Signature:

Date:

Field Parameters Entered into LIMS:

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: 2017-10-16-25
Sally Ward Spring, Eight Mile Pond
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralls

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

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Loc		Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)		
File	ST	Matrix (Salt, Fresh)	Date	Time	Date	Time		
Eight Mile Pond Middle G1WA0024	Field ID → Eight Mile Pond Middle Oct 18, 2017	Fresh	10/18/17	1225			ABCD	
		Diss. Oxygen (mg/L)						
		pH	7.55					
		Temp (C)	22.27					
Sally Ward Spring at Wakulla Park Dr. G1WA0021	Field ID → Sally Ward Spring at Wakulla Park Dr. Oct 18, 2017	Fresh	10/18/17	1155			A	
		Diss. Oxygen (mg/L)						
		pH	7.73					
		Temp (C)	20.75					
Godby Drainage Ditch at Progress Dr. G1WA0061	Field ID → Godby Drainage Ditch at Progress Dr. Oct 18, 2017	Fresh	10/18/17	1020			A, B C, D	
		Diss. Oxygen (mg/L)						
		pH	7.67					
		Temp (C)	17.54					

Relinquished By: Curtis Musson	Date/Time: 10/18/17	Number of Coolers: 4	Received By: [Signature]	Date/Time: 10-18-17
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Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY					7
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					

Group: A	Bottle Type:	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					7

Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3					7
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					

Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F					7

Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ECOLI-18QT					3

Group: C	Bottle Type:	BG-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	W-AHERB-AA					2
	W-SUC-AA-R					
	W-UHERB-AA					

Group: D	Bottle Type:	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	PCR-FILTER					4
	PUR-HF183					

Group: E	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	W-AHERB-AA					4
	W-GLYPH					
	W-PYR-AA-R					
	W-SUC-AA-R					

Group: E	Bottle Type: W-UHERB-AA	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: E	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: E	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6

Cooler Packing Worksheet for Request: RQ-2017-10-16-25

Sand, Sally, 8, Talavanna, Arrowhead, AJ, Godby

Ship Cooler On: 10/10/2017

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK_A

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, No Metals

Group B: E.coli

Group C: Tracers (AHERB Short list)

Group D: qPCR

Group E: Pesticides

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00069122

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: 7 Preservation: ICE

Lot # 1204544

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 550 68654

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: FILTER-ICE

Lot # 550 67688

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-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L16292

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: C

of Sites: 1

Container ID: BG-1L

Qty: 1 Preservation: ICE

Lot # 550 68849

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: D

of Sites: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00068079

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: E

of Sites: 2

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00068849

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-GLYPH

W-PYR-AA-R

W-SUC-AA-R

W-UHERB-AA

Description

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

Glyphosate in water matrices by HPLC/MS/MS

Pyraclostrobin 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

Container ID: BG-500ML

Qty: 6 Preservation: ICE

Lot # 00068829

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00068849

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Cooler Packed By: AB Number of Coolers: 4 Date: 10-17

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-2017-10-16-25

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

Do PH

Meter ID: Bio #2 RQ- 2017- Project:

- Notes:** (1) Always wait for meter to stabilize before recording any readings.
 (2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).
 (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	10/17/17	1517	22.61	8.644	8.64	100.0	SI	-	P / F	C / F
ICV	Curtis Musson	10/17/17	1520	22.63	8.644	8.63	99.9	SI	-	P / F	C / F
CCV	Curtis Musson	10/18/17	1503	21.90	8.761	9.42	Stc.	SI		P / F	C / F
CCV							105.5			P / F	L / F

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	10/17/17	1522	170614E	6/18	1000	1000	P / F	C / F
ICV	Curtis Musson	10/17/17	1523	170614E	6/18	1000	1000	P / F	C / F
CCV	Curtis Musson	10/18/17	1506	170614D	6/18	100	105	P / F	C / F
CCV								P / F	L / F

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	10/17/17	1525	170614B	12/18	7.0	7.00	58	P / F	C / F
Calibr.	Curtis Musson	10/17/17	1527	170614A	6/18	4.01	4.00	222	P / F	C / F
Calibr.	Curtis Musson	10/17/17	1530	170314C	9/18	10.01	10.01	102	P / F	C / F
ICV	Curtis Musson	10/18/17	706	170614A	6/18	4.01	4.12	224	P / F	C / F
CCV	Curtis Musson	10/18/17	1504	170614B	12/18	7.0	7.41	36	P / F	C / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

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

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth verification _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS: