FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2017

Data Qualified? Yes / No

STORET Station Name: Sally Ward Spring at Wakulla Park Dr. **Date:** 03/28/2017 (mm/dd/yyyy)

STORET Station ID: G1WA0021 **WBID:** 1006Y **Latitude:** 30.2414 (Decimal Degrees)

County: Wakulla **RQ -** 2017-03-27-11 **ORG ID:** 21FLWQA **Longitude:** -84.3109 (Decimal Degrees)

Receiving Body of Water: Wakulla River **Field ID:** G1WA0021 03282017

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys	X	X			
Diana Turner		X	X	X	X

Sampling Equipment

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

Collection Method

☐ Wading
☐ From Shore
☐ Other (note below)

Via Boat
☒ Canoe/Kayak
☐ Electric Motor
☐ Gasoline Motor

Water Level: Dry / Pooled / Low / (Normal) / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# Rio 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)	9:30AM	0.3	7.3	2.93	33.2	7.67	0.16	VOB	337	20.75
CEN	9:35AM	@ 6		2.72	30.3	7.63	0.16		336	20.76

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 ☒ H_2SO_4	6302030	10/28/17	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ <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-Cl-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 ☐ Entero ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA – 6302030 EXP: 10/28/17 Warning! See SDS

ervative Sticker(s) Here (If Available)

Notes:
1-Kit A

Sally Ward Spring at Wakulla Park Dr.

STORET ↓
G1WA0021

Field ID →
Sally Ward Spring at Wakulla Park Dr.
MAR 28, 2017
G1WA0021_03282017

Signature: Diana Turner **Date:** 3/28/17

Field Parameters Entered into LIMS: DT 3/29/17 (Initials/Date) Field Parameters QC in LIMS: _____ (Initials/Date)

Date Migrated to STORET: _____ (Initials/Date) Field Sheets Scanned/Saved: DT 3/29/17 (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-: 2017-03-27-11 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.	Ben Ralys	3/28	7:32	21.66	8.81	8.8	100.0	47.1	–	P	L
ICV	Ben Ralys	3/28	7:33	21.67	8.81	8.8	100.0	46.1	–	P	L
CCV	Ben Ralys	3/28	1:53	23.46	8.51	8.58	100.8	47.1	–	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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	3/28	7:35	161111D	11/2017	1,000	1,000	P	L
ICV	Ben Ralys	3/28	7:36	161111D	11/2017	1,000	1,001	P	L
CCV	Ben Ralys	3/28	1:55	25 of 25	10/2017	100	103	P	L
CCV									

Report specific conductance as a whole number with no decimal figure. Conductivity Acceptance criteria ± 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 Ralys	3/28	7:39	161111B	5/2018	7.0	6.98	-11.8	P	L
Calibr.	Ben Ralys	3/28	7:41	161111A	11/2017	4.0	4.00	165.6	P	L
Calibr.	Ben Ralys	3/28	7:44	161111C	5/2018	10.0	9.95	-176.6	P	L
ICV	Ben Ralys	3/28	7:45	161111C	5/2018	10.0	9.96	-176.6	P	L
CCV	Ben Ralys	3/28	1:58	161111A	11/2017	4.0	3.99	164.5	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±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 ±5 % or ±0.05m, whichever is greater

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-03-27-11
Sand Pond, Sally Ward Spring
Customer: WQ-ASSESS
Project ID: SMP

Requester: Curtis Musson
Collected By: Ben Ralys & Diana Turner

Field Report Prepared By: Diana Turner
Sampling Agency: FDEP

Location

STORET ↓ **Sand Pond Middle** — G1WA0044

Field ID → Sand Pond Middle — MAR 28, 2017 — G1WA0044_03282017

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/28/17 Time 8:35 AM (Eastern / Central) | Collection (comp begin or grab) Date / Time | Bottle Group(s): A

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	8.30		
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
22.44	6.3	0.3	15
Salinity (ppt)	**Comments**		
0.01			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.334		-84.387	

Location

STORET ↓ **Sally Ward Spring at Wakulla Park Dr.** — G1WA0021

Field ID → Sally Ward Spring at Wakulla Park Dr. — MAR 28, 2017 — G1WA0021_03282017

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/28/17 Time 9:30 AM (Eastern / Central) | Collection (comp begin or grab) Date / Time | Bottle Group(s): A

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	2.93		
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
20.75	7.67	0.3	337
Salinity (ppt)	**Comments**		
0.16			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.244		-84.3109	

Location

STORET ↓ **Eight Mile Pond Middle** — G1WA0024

Field ID → Eight Mile Pond Middle — MAR 28, 2017 — G1WA0024_03282017

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/28/17 Time 10:15 AM (Eastern / Central) | Collection (comp begin or grab) Date / Time | Bottle Group(s): A, C

Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)		
Fresh	6.96		
Temp (C)	**pH**	**Sample Depts (m)**	**Sp. Conductance (umho/cm)**
23.26	7.57	0.3	77
Salinity (ppt)	**Comments**		
0.04			
Latitude (Decimal Degrees)		**Longitude (Decimal Degrees)**	
30.32635		-84.30273	

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Diana Turner	3/28/17 1:31 pm	2	[illegible]	3-28-17 13:31

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-03-27-11
Sand Pond, Sally Ward Spring
Customer: WQ-ASSESS
Project ID: SMP
Requester: Curtis Musson
Collected By: _____
Field Report Prepared By: _____
Sampling Agency: FDEP

Location: Chicken Branch at Old Plank Rd
STORET: G1WA0031
Field ID: Chicken Branch at Old Plank Rd
MAR 28, 2017 G1WA0031_03282017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/28/17 Time 11:10 AM (Eastern / Central)
Collection (comp begin or grab) Date / Time	
Bottle Group(s)	A, C
Matrix (Salt, Fresh)	Fresh
Diss. Oxygen (mg/L)	6.45
Temp (C)	19.16
pH	7.48
Sample Depts (m)	0.3
Sp. Conductance (umho/cm)	295
Salinity (ppt)	0.14
Comments	
Latitude (Decimal Degrees)	30.3261
Longitude (Decimal Degrees)	-84.1481

Location: Alford Arm Tributary at Buck Lake Rd.
STORET: G1WA0017
Field ID: Alford Arm Tributary at Buck Lake Rd.
MAR 28, 2017 G1WA0017 03282017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/28/17 Time (Eastern / Central)
Collection (comp begin or grab) Date / Time	
Bottle Group(s)	
Matrix (Salt, Fresh)	NOT COLLECTED
Diss. Oxygen (mg/L)	
Temp (C)	
pH	
Sample Depts (m)	
Sp. Conductance (umho/cm)	
Salinity (ppt)	
Comments	
Latitude (Decimal Degrees)	30.465563
Longitude (Decimal Degrees)	-84.4115

Location: Lake Lafayette Drain 250 meters downstream of Weems Rd
STORET: G1WA0007
Field ID: Lake Lafayette Drain 250 meters downstream of Weems Rd
Mar 28, 2017 G1WA0007_03282017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/28/17 Time 12:20 pm (Eastern / Central)
Collection (comp begin or grab) Date / Time	
Bottle Group(s)	B, C, D, E
Matrix (Salt, Fresh)	Fresh
Diss. Oxygen (mg/L)	4.82
Temp (C)	21.02
pH	6.95
Sample Depts (m)	0.1
Sp. Conductance (umho/cm)	138
Salinity (ppt)	0.06
Comments	
Latitude (Decimal Degrees)	30.4544
Longitude (Decimal Degrees)	-84.2204

Relinquished By:	Date/Time	Number of Coolers	Received By:	Date/Time
Diana Turner	3/28/17 1:31 pm	2		03-28-17 13:31

Cooler Packing Worksheet for Request: RQ-2017-03-27-11
Sand, Sally, Alford, Eight, Chicken, Lafayette Draine
Ship Cooler On: 3/24/2017
Customer/Project: WQ-ASSESS/SMP

Assigned To: KITCHEN_S
Requester: Curtis Musson
Priority: 3

850-245-8453
Division Of Water Facilities, FL DEP
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400

Attn: curtis musson

Comments:
No preservatives needed.

Group A: Freshwater Kit, No Metals
Group B: Freshwater Kit With Metals
Group C: E.coli
Group D: Organics (Tracers)
Group E: PCR (Markers)

Packing Notes
No FedEx Labels needed, samples wil lbe dropped off at TLH central lab.

Requested Analyses:

Bottle Group: A

# of Sites: 5

Container ID: P-1L **Qty: 5** **Preservation: ICE** **Lot #** 00067304

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 5** **Preservation: ICE** **Lot #** 1191091

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML **Qty: 5** **Preservation: ICE And H2SO4** **Lot #** 0006685

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 5** **Preservation: ICE-FLTR** **Lot #** 0006549

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: P-1L **Qty: 1** **Preservation: ICE** **Lot #** 0006730

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 1** **Preservation: ICE** **Lot #** 1191091

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML **Qty: 1** **Preservation: HNO3** **Lot #** 00066885

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

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Container ID: P-500ML **Qty: 1** **Preservation: ICE And H2SO4** **Lot #** 00066885

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 1** **Preservation: ICE-FLTR** **Lot #** 00065449

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C **# of Sites: 3**

Container ID: P-250ML-WO-THI **Qty: 3** **Preservation: ICE** **Lot #** L16292

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

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Bottle Group: D **# of Sites: 1**

Container ID: BG-1L **Qty: 1** **Preservation: ICE** **Lot #** 00066798

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis	Description

W-AHERB-AA	Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS
W-SUC-AA-R	Analysis of sucralose in water matrices by HPLC/MS/MS
W-UHERB-AA	Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: E # of Sites: 1

Container ID: QPCR-P-250ML **Qty: 2** **Preservation: ICE** **Lot #** L16292

Description:

Analysis	Description
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: SK Date: 3-26-17

DEP Cooler ID #(s): 2 coolers

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-2017-03-27-11