FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / No — pH

WIN Station Name: Salem Branch Downstream of SR 159 **Date:** 3/15/2018 (mm/dd/yyyy)

WIN/ Field ID: G1WA0053 **WBID:** 480 **Latitude:** 30.63082 (Decimal Degrees)

County: Gadsden **ORG ID:** 21FLWQA **Longitude:** -84.43155 (Decimal Degrees)

Receiving Body of Water: Little River **RQ-2018-** 03-12-53

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys		✓	✓		
Phil Homann	✓			N/A	N/A

Sampling Equipment
- ☑ Sample Container ☐ Van Dorn ☐ Pole
- ☐ Carboy ☐ Syringe
- ☐ Dipper ☐ Other
- Depth Measured with
- Equipment ID

Collection Method
- ☑ Wading ☐ Canoe/Kayak
- ☐ From Shore ☐ Electric Motor
- ☐ Other ☐ Gasoline Motor

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

Meter ID# Biology #2 **Matrix:** Fresh / Marine / DI

Photos: Yes / No **Flow:** No Flow / Intestital / Flowing / NA

Tide: Rising/ Falling/ Slack/ NA **Tide Times:** High NA Low NA

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C⁰)
(EST)	1030	0.2	0.1	VOB	9.69	87.3	7.15 J	0.08	170	10.69
CEN										

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

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#: 1975308

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H_2SO_4			☐ <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 ☐ Enterococci	☑ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here (If Available)

Notes:
Bacteria group: C

Salem Branch downstream of SR 159

WIN ID / Field ID: G1WA0053

Signature: **Date:** 3/16/18

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (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. PH

Meter ID: Biology #2 RQ- 2018-03-12-53 Project: SMP

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.	Ben Rabys	3/15/18	7:11	19.50	9.15	9.18	100.0	52.3	-	(P) / F	(L) / F
ICV	Ben Rabys	3/15/18	7:12	19.50	9.15	9.18	100.0	52.3	-	(P) / F	(L) / F
CCV	Ben Rabys	3/15/18	2:35	22.48	8.67	8.88	102.5	51.2	-	(P) / F	(L) / F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.
Optical: DO gain range 0.85 to 1.15; DO charge N/A.
Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.
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 Rabys	3/15/18	7:14	171005D	10/2018	1,000	1,000	(P) / F	(L) / F
ICV	Ben Rabys	3/15/18	7:14	171005D	10/2018	1,000	1,001	(P) / F	(L) / F
CCV	Ben Rabys	3/15/18	2:37	171005E	10/2018	100	99	(P) / F	(L) / F
CCV								P / F	L / F

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 Rabys	3/15/18	7:18	171005B	4/2019	7.0	7.0	1.5	(P) / F	(L) / F
Calibr.	Ben Rabys	3/15/18	7:19	171005A	10/2018	4.0	3.99	175.3	(P) / F	(L) / F
Calibr.	Ben Rabys	3/15/18	7:20	171005C	4/2019	10.0	9.98	-164.8	(P) / F	(L) / F
ICV	Ben Rabys	3/15/18	7:21	171005C	4/2019	10.0	9.97	-164.4	(P) / F	(L) / F
CCV	Ben Rabys	3/15/18	2:38	171005A	10/2018	4.0	3.67	192.7	P / (F)	(L) / F
CCV									P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50; mV pH 4 Range +180 ± 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 ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Request Number: RQ-2018-03-12-53

Swamp, Salem, Caney, Harbiwood, Ocklock

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Phil Homann

Field Report Prepared By: Ben Ralys, Phil Homann

Sampling Agency: FDEP

Location: Swamp Creek upstream of Railroad
Field ID / WIN/STORET #: WIN ID / FILED ID: G1WA0052

Latitude 30.663 ☒dd ☐dms	Longitude -84.448 ☒dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/18 Time 1040 Eastern Central	Composite end Date — Time —	Bottle Group(s) (See pg 2) A, C
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 102.8 ☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
		Temp (C) 10.30	pH 6.87	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 87
		Salinity (ppt) 0.04	Comments		

Location: Salem Branch downstream of SR 159
Field ID / WIN/STORET #: WIN ID / Field ID: G1WA0053

Latitude 30.63082 ☒dd ☐dms	Longitude -84.43155 ☒dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/18 Time 1030 Eastern Central	Composite end Date — Time —	Bottle Group(s) C
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 87.3 ☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
		Temp (C) 10.69	pH 7.15	Sample Depth 0.1 ☐ ft ☒ m	Sp. Conductance (umho/cm) 170
		Salinity (ppt) 0.08	Comments		

Location: Ochlockonee River Upstream of Old Brainbridge
Field ID / WIN/STORET #: WIN ID / FIELD ID: G1WA0071

Latitude 30.5864 ☒dd ☐dms	Longitude -84.3571 ☒dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/18 Time 1115 Eastern Central	Composite end Date — Time —	Bottle Group(s) A, B, C
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 94.7 ☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
		Temp (C) 13.15	pH 6.95	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 103
		Salinity (ppt) 0.05	Comments		

Location: Ochlockonee River Upstream of Tower Rd
Field ID / WIN/STORET #: WIN ID / FIELD ID: G1WA0069

Latitude 30.52967 ☒dd ☐dms	Longitude -84.38896 ☒dd ☐dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 3/15/18 Time 1215 Eastern Central	Composite end Date — Time —	Bottle Group(s) A, B, C
		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 92.7 ☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) —	
		Temp (C) 13.38	pH 6.77	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 107
		Salinity (ppt) 0.05	Comments		

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	3/15/18 2:20	Delivered	3	ABS	3-15-18 1142

Request Number: RQ-2018-03-12-53

Swamp, Salem, Caney, Harbiwood, Ocklock

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Phil Homann

Field Report Prepared By: Ben Ralys, Phil Homann

Sampling Agency: FDEP

Location — WIN ID / FIELD ID

Field ID: Ochlockonee River Downstream of Tower Rd

WIN/STORET #: G1WA0070

Latitude: 30.52646 ☒dd ☐dms

Longitude: -84.38821 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 1200 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 90.9 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L): —

Temp (C): 13.43

pH: 6.82

Sample Depth: 0.3 ☐ ft ☒ m

Sp. Conductance (umho/cm): 107

Salinity (ppt): 0.05

Comments:

Bottle Group(s) (See pg 2): A, B, C

Location — WIN ID/Filed ID

Field ID: Harbinwood Estates Drain

WIN/STORET #: G1WA0034

Latitude: 30.5193 ☒dd ☐dms

Longitude: -84.3357 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 950 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 73.0 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L): —

Temp (C): 12.13

pH: 7.32

Sample Depth: 0.1 ☐ ft ☒ m

Sp. Conductance (umho/cm): 126

Salinity (ppt): 0.06

Comments:

Bottle Group(s): A, B, C, D, E

Location — WIN ID / FIELD ID

Field ID: Ochlockonee River Upstream of US 90

WIN/STORET #: G1WA0068

Latitude: 30.47573 ☒dd ☐dms

Longitude: -84.40595 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 1330 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 92.8 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L): —

Temp (C): 14.02

pH: 6.61

Sample Depth: 0.3 ☐ ft ☒ m

Sp. Conductance (umho/cm): 112

Salinity (ppt): 0.05

Comments:

Bottle Group(s): A, B, C

Location — WIN ID/Field ID

Field ID: Caney Creek Upstream of US 90

WIN/STORET #: G1WA0014

Latitude: 30.5325 ☒dd ☐dms

Longitude: -83.9501 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 900 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh

Diss. Oxygen: 102.2 ☐ mg/L ☒ % sat

Total Res. Chlorine (mg/L): —

Temp (C): 8.50

pH: 6.69

Sample Depth: 0.1 ☐ ft ☒ m

Sp. Conductance (umho/cm): 89

Salinity (ppt): 0.04

Comments:

Bottle Group(s): A, B, C, D, F

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	3/15/18 2120	Delivered	3	[signature]	3-16-18 14:20

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A	P-1L		7	ICE		7
	ALKALINITY					
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
A	BP-1L		7	ICE		7
	CHLSUITE-W					
A	P-500ML		7	ICE And H2SO4		7
	W-NH3					
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
A	P-125ML		7	FILTER-ICE		7
	W-PO4-F					
B	P-500ML		6	HNO3		6
	W-ICP					
	W-ICPMS					
C	P-250ML-WO-THI		8	ICE		8
	ECOLI-18QT					
D	BG-500ML		2	ICE		2
	W-E8321-DI					
	W-E8321-MS					
E	QPCR-P-250ML		2	ICE		2
	PCR-FILTER					
F	QPCR-P-250ML		2	ICE		2
	PCR-BACR					
	PCR-FILTER					

Cooler Packing Worksheet for Request: RQ-2018-03-12-53
Swamp, Salem, Caney, Harbiwood, Ocklock
Ship Cooler On: 3/8/2018
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:
Group A: Freshwater Kit
Group B: Metals
Group C: E. coli
Group D: Tracers
Group E: PCR-Filter
Group F: PCR-FILTER & PCR-BacR

Packing Notes:
No Fedex labels
No Trash Bags
2 submital forms
1 - case of Nitric Acid

Requested Analyses:

Bottle Group: A

# of Sites: 7

Container ID: P-1L **Qty: 7** **Preservation: ICE** **Lot #** 0007082498

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: 7** **Preservation: ICE** **Lot #** 1214297

Description: Brown Plastic Bottle 1L

Analysis	Description

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

Container ID: P-500ML **Qty: 7** **Preservation: ICE And H2SO4** **Lot #** 0007044O

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: 7** **Preservation: FILTER-ICE** **Lot #** 0006973Z

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: 6

Container ID: P-500ML **Qty: 6** **Preservation: HNO3** **Lot #** 0007044O

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

Bottle Group: C # of Sites: 8

Container ID: P-250ML-WO-THI **Qty: 8** **Preservation: ICE** **Lot #** L15269

Description:

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

Bottle Group: D # of Sites: 2

Container ID: BG-500ML **Qty: 2** **Preservation: ICE** **Lot #** 686622

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, 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 #** 69545

Description: 250ml Sterile Nalgene (2)

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

Bottle Group: F # of Sites: 1

Container ID: QPCR-P-250ML **Qty: 2** **Preservation: ICE** **Lot #** 69545

Description: 250ml Sterile Nalgene (2)

Analysis	Description
PCR-BACR	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: ABP Number of Coolers: 3 Date: 3-8-18

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- X FedEx Bills, if applicable
- X Plastic Bags
- ___ Zip Ties

If Preservation Included:

ID HNO3 1.1	Exp 12-7-18	Lot # NA7341010
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2018-03-12-53