



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

DB
PH

Location/STORET Station Name: Salem Branch Downstream of SR 159

Date: 11/01/2017

(mm/dd/yyyy)

STORET # G1WA0053

WBID: 480

Latitude: 30.63082

County: Gadsden

RQ - 2017-10-30-16

ORG ID: 21FLWQA

Longitude: -84.43155

(Decimal Degrees)

Receiving Body of Water: Little River

Field ID: G1WA0053_11012017

(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Jhamieka Greenwood								
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 / <u>Low</u> / Normal / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI						
Meter ID# BIO 2				Photos: Yes / <u>No</u>						
				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	11:30	0.2	0.4	8.69	89.4	8.09	0.16	V03	330	16.76
CEN										

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

S BIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1941958

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			☐ <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			
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 ☒ 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: ECOLI Tracers PCR-GFD Filter

Field ID: → Salem Branch downstream of SR 159 Nov 1, 2017

Barcode: G1WA0053_11012017

Salem Branch downstream of SR 159

STORET ↓

Barcode: G1WA0053

Signature: [Signature] Date: 11/1/17

Field Parameters Entered into LIMS: [Signature] 11-6-17

Field Parameters QC in LIMS: [Signature] 4/11/18

Date Migrated to STORET: [Signature]

Field Sheets Scanned/Saved: [Signature] 4-13-18

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Holdly "X" this box if there is qualified data on this page.

Meter ID: Bio #2 RQ: 2017-10-30-16 Project: Snp

- 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 Mussen	703	11/1/17	20.65	9.074	9.00	100.0	Sc	—	P/F	L/F
ICV	Curtis Mussen	704	11/1/17	20.54	9.074	9.00	100.0	Sc	—	P/F	L/F
CCV	Curtis Mussen	1611	11/1/17	21.63	8.812	8.43	96.0	49	—	P/F	L/F
CCV										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 Mussen	705	11/1/17	17100SD	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	706	11/1/17	17100SD	10/2018	1000	1000	P/F	L/F
CCV	Curtis Mussen	1614	11/1/17	17100SE	10/2018	100	100	P/F	L/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 Mussen	11/1/17	708	120614B	2/2018	7.0	7.0	45	P/F	L/F
Calibr.	Curtis Mussen	11/1/17	710	12100SA	10/2018	4.0	4.01	213	P/F	L/F
Calibr.	Curtis Mussen	11/1/17	711	120310C	9/2018	10.01	9.97	-111	P/F	L/F
ICV	Curtis Mussen	11/1/17	713	120210C	9/2018	10.01	9.92	-709	P/F	L/F
CCV	Curtis Mussen	11/1/17	1616	120614B	12/2018	7.0	6.56	73	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 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	Curtis Mussen	11/1/17	707	0.000	0.000	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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: RQ-2017-10-30-16

Salem, Arrowhead, AJ, Megginis, Swamp, Godby

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: *Jamiele Greenwood*

Sampling Agency: FDEP

Page 1 of 1

Collected By: *Curtis Musson, Jamiele Greenwood*

STREET ↓
Aj Henry Park
Pond Middle
Field ID →
Aj Henry Park
Pond Middle
Nov 01, 2017
GIWA0058_11012017

STREET ↓
Lake Arrowhead at
Boat Dock At Turtle
Crk Ln Near Outlet
Field ID →
Lake Arrowhead
at boat dock at
Turtle Crk Ln
near outlet
Nov 1, 2017
GIWA0004_11012017

STREET ↓
Tallavanna
Lake Middle
Field ID →
Tallavanna
Lake Middle
Nov 1, 2017
GIWA0045_11012017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Date	Comp	Date	Comp	Date
☒ Grab	11/1/17	☒ Grab	11/1/17	☒ Grab	11/1/17
Matrix (Salt, Fresh)	Time 8:18	Matrix (Salt, Fresh)	Time 8:56	Matrix (Salt, Fresh)	Time 9:55
Fresh		Fresh		Fresh	
Diss. Oxygen (mg/L)	10.30	Diss. Oxygen (mg/L)	10.07	Diss. Oxygen (mg/L)	9.43
pH	9.34	pH	9.06	pH	9.55
Salinity (ppt)	0.03	Salinity (ppt)	0.03	Salinity (ppt)	0.12
Sample Depts (m)	0.3	Sample Depts (m)	0.3	Sample Depts (m)	0.3
Sp. Conductance (umho/cm)	70	Sp. Conductance (umho/cm)	65	Sp. Conductance (umho/cm)	255
Latitude (Decimal Degrees)	30.508	Latitude (Decimal Degrees)	30.568517	Latitude (Decimal Degrees)	30.59862
Longitude (Decimal Degrees)	-84.216	Longitude (Decimal Degrees)	-84.218058	Longitude (Decimal Degrees)	-84.46593
Time		Time		Time	
Bottle Group(s)	A	Bottle Group(s)	A	Bottle Group(s)	A/B/C F

Relinquished By: *[Signature]* Date/Time 11/1/17 14:48

Number of Coolers

Received By: *[Signature]*

Date/Time 11-1-17 14:48

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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Salem, Arrowhead, AJ, Megginis, Swamp, Godby

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Page ____ of ____

Field Report Prepared By: _____

Sampling Agency: FDEP

Collected By: _____

Swamp Creek
upstream of
Railroad

STORET ↓



G1WA00052

Field ID →
Swamp Creek
upstream of
Railroad



G1WA00052_11012017

Nov 1, 2017

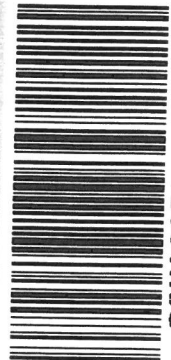
Salem Branch
dowstream of
SR 159

STORET ↓



G1WA00053

Field ID →
Salem Branch
dowstream of
SR 159



G1WA00053_11012017

Nov 1, 2017

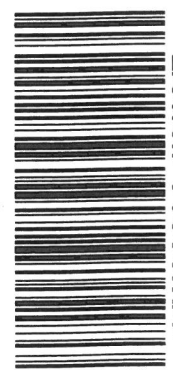
Harbinwood
Estates Drain

STORET ↓



G1WA00034

Field ID →
Harbinwood
Estates Drain



G1WA00034_11012017

Nov 01, 2017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Comp	Grab	Comp	Grab
☒	☐	☒	☐	☒	☐
Matrix (Salt, Fresh)		Matrix (Salt, Fresh)		Matrix (Salt, Fresh)	
Fresh		Fresh		Fresh	
Temp (C)	11.80	Temp (C)	16.76	Temp (C)	17.39
Diss. Oxygen (mg/L)	10.87	Diss. Oxygen (mg/L)	8.69	Diss. Oxygen (mg/L)	7.45
pH	6.54	pH	8.09	pH	7.42
Sample Depts (m)	0.3	Sample Depts (m)	0.2	Sample Depts (m)	0.05
Sp. Conductance (umho/cm)	71	Sp. Conductance (umho/cm)	330	Sp. Conductance (umho/cm)	105
Comments		Comments		Comments	
Latitude (Decimal Degrees)	30.663	Latitude (Decimal Degrees)	30.63082	Latitude (Decimal Degrees)	30.5193
Longitude (Decimal Degrees)	-84.448	Longitude (Decimal Degrees)	-84.43155	Longitude (Decimal Degrees)	-84.3357
Date	11/1/17	Date	11/1/17	Date	11/1/17
Time	10:50	Time	11:30	Time	12:00
Eastern Central		Eastern Central		Eastern Central	
Bottle Group(s)	A/C/O E/C	Bottle Group(s)	C/O/C	Bottle Group(s)	A/O/C O/C

Relinquished By: _____

Date/Time

Number of Coolers

Received By: _____

Date/Time

11-1-17/1448

Central Lab Sample Submittal Form

Field Report Prepared By: _____
Sampling Agency: FDEP

Page of

Sampling Agency: FDEP

Received By:

Date/Time 11-178. 14.48

Date/Time 11/18/2018

Group: A	Bottle Type:	P-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 8	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	8
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 8	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	8
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	PCR-FILTER						
	PCR-HF183						
Group: F	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-AHERB-AA						

Group: F	Bottle Type: W-GLYPH W-PYR-AA-R W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: F	Bottle Type: W-CT-Cl-R W-PCL-SQ-R	BG-500ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: F	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: G	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00069348

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

Bottle Group: G

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00068707

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: Tyler R. Number of Coolers: 6 Date: 10/25/17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>nitric acid</u>	Exp <u>09/18/18</u>	Lot # <u>7261120</u>
ID <u>sulfuric acid</u>	Exp <u>10/02/18</u>	Lot # <u>7275010</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-30-16

Container ID: BP-1L

Qty: 8 Preservation: ICE

Lot # 120 8913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 8 Preservation: ICE And H2SO4

Lot # 08069255

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: 8 Preservation: FILTER-ICE

Lot # 08068347

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-500ML

Qty: 3 Preservation: HNO3

Lot # 08069255

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group: C

of Sites: 7

Container ID: P-250ML-WO-THI

Qty: 7 Preservation: ICE

Lot # 117048

Description:

Analysis

Description