



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF

March 2017

Data Qualified?

Yes / No

Location/STORET Station Name: Megginnis Arm Run Downstream of Sharer Date: 10/10/2017

STORET # GIWA0033

WBID: 809A

Latitude:

(mm/dd/yyyy)

County: Leon RQ - 2017-10-09-23

ORG ID: 21FLWQA

Longitude:

(Decimal Degrees)

Receiving Body of Water: Lake Jackson

Field ID: GIWA0033-10102017

(Decimal Degrees)

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

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

Meter ID# Bio #2 Photos: Yes / No

Matrix: Fresh / Marine / DI

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 (umhos/cm)	Temp. (C°)
<u>EST</u>	<u>12:25</u>	<u>0.2</u>	<u>0.3</u>	<u>4.27</u>	<u>52.3</u>	<u>6.81</u>	<u>0.10</u>	<u>VOB</u>	<u>209</u>	<u>25.89</u>
CEN										

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1935394

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	SA 7233030	8/21/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um 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: PCR-Filter

Field ID: Megginnis Arm Run Downstream of Sharer

Oct 10, 2017

Barcode: GIWA0033_10102017

STORET GIWA0033

Megginnis Arm Run Downstream of Sharer

Signature: Curtis Musson Date: 10/10/17

Field Parameters Entered into LIMS: CN 10/11/17 Field Parameters QC in LIMS: 6/11/18

Date Migrated to STORET: (Initials/Date) Field Sheets Scanned/Saved: (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 name.

Meter ID: B0 #2 RQ- 2017-10-09-16 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.	Curtis Musson	10/9/17	1541	22.87	8.598	8.60	100.0	52	~	P/F	L/F
ICV	Curtis Musson	10/9/17	1543	22.89	8.598	8.60	100.0	52	~	P/F	L/F
CCV	Curtis Musson	10/10/17	1541	24.37	8.356	8.59	104.7	53	~	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 Musson	10/9/17	1545	170614 E	6/2018	1000	1000	P/F	L/F
ICV	Curtis Musson	10/9/17	1546	170614 E	6/2018	1000	1000	P/F	L/F
CCV	Curtis Musson	10/10/17	1543	170614 D	6/2018	100	105	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 Musson	10/9/17	1547	170310 B	9/18	7.0	7.00	44	P/F	L/F
Calibr.	Curtis Musson	10/9/17	1551	170614 A	6/18	4.01	4.01	215	P/F	L/F
Calibr.	Curtis Musson	10/9/17	1552	170310 C	9/18	10.01	9.94	-107	P/F	L/F
ICV	Curtis Musson	10/9/17	1554	170614 A	6/18	4.01	3.82	222	P/F	L/F
CCV	Curtis Musson	10/10/17	1544	170310 C	9/18	10.01	10.06	-109	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 $+180 \pm 50$; 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.

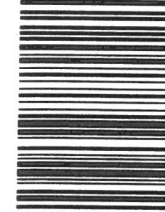
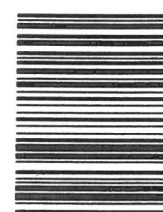
COMMENTS:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: RA-2017-10-09-23
 Swamp, Salem, Tallavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
 Customer: WAS-SECT
 Project ID: SMP
 Field Report Prepared By: Curtis Musson
 Sampling Agency: FDEP

Request Number: RA-2017-10-09-23
 Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
 Customer: WAS-SECT
 Project ID: SMP

Loc		Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)	
Field	STOI	Comp Grab	Date	Time	Eastern Central	Date	Time	Date	Time
Aj Henry Park Pond Middle  G1WA0058 Field ID → Aj Henry Park Pond Middle Oct 10, 2017	Aj Henry Park Pond Middle  G1WA0058 Field ID → Aj Henry Park Pond Middle Oct 10, 2017	☐ Comp ☒ Grab Matrix <u>Fresh</u> Temp (C) <u>27.36</u> Salinity (ppt) <u>0.03</u> Latitude (Decimal Degrees)	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments	☒ Eastern ☐ Central	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments	Date <u>10/10/17</u> Time <u>8:27</u> Diss. Oxygen (mg/L) <u>8.18</u> pH <u>7.86</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>70</u> Comments
Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet  G1WA0004 Field ID → Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet Oct 10, 2017	Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet  G1WA0004 Field ID → Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet Oct 10, 2017	☐ Comp ☒ Grab Matrix <u>Fresh</u> Temp (C) <u>27.81</u> Salinity (ppt) <u>0.03</u> Latitude (Decimal Degrees)	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments	☒ Eastern ☐ Central	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments	Date <u>10/10/17</u> Time <u>7:50</u> Diss. Oxygen (mg/L) <u>9.85</u> pH <u>9.33</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>75</u> Comments
Tallavanna Lake Middle  G1WA0045 Field ID → Tallavanna Lake Middle Oct 10, 2017	Tallavanna Lake Middle  G1WA0045 Field ID → Tallavanna Lake Middle Oct 10, 2017	☐ Comp ☒ Grab Matrix <u>Fresh</u> Temp (C) <u>27.34</u> Salinity (ppt) <u>0.11</u> Latitude (Decimal Degrees)	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments	☒ Eastern ☐ Central	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments	Date <u>10/10/17</u> Time <u>9:30</u> Diss. Oxygen (mg/L) <u>9.18</u> pH <u>9.38</u> Sample Depts (m) <u>0.3</u> Sp. Conductance (umho/cm) <u>236</u> Comments

Relinquished By: Curtis Musson
 Date/Time: 10/10/17 1355
 Number of Coolers: 5
 Received By: J.R.
 Date/Time: 10/10/17 2:03

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: 20-2017-10-09-23 Page 2 of 5
 Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwood Requester: Curtis Musson Field Report Prepared By: CNS Musson
 Customer: WAS-SECT Sampling Agency: FDEP
 Project ID: SMP Collected By: Curtis Musson, Ben Lays

Field	Locat	Matrix	Temp (C)	Diss. Oxygen (mg/L)	pH	Salinity (ppt)	Sample Depts (m)	Sp. Conductance (umho/cm)	Bottle Group(s)
Swamp Creek upstream of Railroad	ST	Fresh	24.64	6.75	6.90	0.04	0.3	79	A, C D, E
Salem Branch downstream of SR 159	Lr	Fresh	26.51	6.32	7.51	0.08	0.3	177	C, D, F
Harbinwood Estates Drain	Fi	Fresh	27.7	3.66	7.28	0.06	0.1	127	A, B, C, D E

Relinquished By: Curtis Musson Date/Time: 1-10/17 1355 Number of Coolers: 5 Received By: A.2 Date/Time: 11/10/17 2:08

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: 19-2017-10-09-23
 Swamp, Salem, Talavanna, Arrowhead, AJ, Harbinwoo Requester: Curtis Musson
 Customer: WAS-SECT
 Project ID: SMP

Field Report Prepared By: Curtis Musson
 Sampling Agency: FDEP

Collected By: Curtis Musson, Ben Ralys

Page 3 of 5

Loc	File	STC	Matrix	Temp (C)	pH	Diss. Oxygen (mg/L)	Sample Depts (m)	Sp. Conductance (umho/cm)	Collection (comp begin or grab)	Date	Time	Bottle Group(s)
STREET ↓ Megginnis Arm Run Downstream of Sharer Field ID → Megginnis Arm Run Downstream of Sharer Oct 10, 2017 G1WA0033_10102017	File G1WA0033	STC G1WA0033	☐ Comp ☒ Grab Fresh	25.89	6.81	4.27	0.2	209	☒ Eastern ☐ Central	10/10/17	1225	A, C, D G
STREET ↓ Godby Drainage Ditch at Progress Dr. Field ID → Godby Drainage Ditch at Progress Dr. Oct 10, 2017 G1WA0061_10102017	File G1WA0061	STC G1WA0061	☐ Comp ☒ Grab Fresh	26.67	7.02	3.84	0.3	198	☒ Eastern ☐ Central	10/10/17	1300	A, C D, E
STREET ↓ Central Drainage Ditch downstream of Orange Ave. Field ID → Central Drainage Ditch downstream of Orange Ave. Oct 10, 2017 G1WA0026_10102017	File G1WA0026	STC G1WA0026	☐ Comp ☒ Grab Fresh	28.16	7.71	8.04	0.3	224	☒ Eastern ☐ Central	10/10/17	1335	A, B, C G, H

Relinquished By: Curtis Musson Date/Time: 10/10/17 1355

Received By: 9.2 Date/Time: 10/10/17 2:08

Group: A	Bottle Type:	P-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
Group: A	ALKALINITY					8	
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
Group: A	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	CHLSUITE-W					8	
	Group: A	Bottle Type:	P-500ML	# of Bottles: 8	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
		W-NH3					8
		W-NO2NO3					
		W-S-A-TP					
W-TKN							
W-TOC							
Group: A	Bottle Type:	P-125ML	# of Bottles: 8	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	
	W-PO4-F					8	
Group: B	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	
	W-ICP					3	
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	ECOLI-18QT					7	
Group: D	Bottle Type:	BG-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	W-AHERB-AA					5	
	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	
	PCR-FILTER					4	
	PCR-HF183						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	
	PCR-FILTER					2	

Group: F	Bottle Type: PCR-GFD	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: G	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: H	Bottle Type: W-AHERB-AA 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: H	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: H	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-2017-10-09-23
SWamp, Salem, Talavanna, Arrowhead, AJ, Harbinwood, Meginnis, Godby, Central

Ship Cooler On: 10/3/2017
Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON_C
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Nutrients, CHLA, Physical Aggregates
Group B: Metals
Group C: Microbiology (Bacteria)
Group D: Organics (Wastewater Tracers) AHERB Short List
Group E: PCR (HF183, FILTER)
Group F: PCR (GFD, FILTER)
Group G: PCR (FILTER)
Group H: Pesticides AHERB Long List

Requested Analyses:

Bottle Group: A

of Sites: 8

Container ID: P-1L

Qty: 8 Preservation: ICE

Lot # 00068657

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: 8 Preservation: ICE

Lot # 1208913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00068050

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: E

of Sites: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

PCR-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: F

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

PCR-GFD

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction

Bottle Group: G

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00067801

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Bottle Group: H

of Sites: 2