



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Willacoochee Creek at 161

Date: 9/25/2019
(mm/dd/yyyy)

WIN/ Field ID: G1WA0087

WBID: 410

Latitude: 30.6374

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.5008

Receiving Body of Water: Sink to Aquifer Little River

RQ: 2019-07-29-35

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment					
Avril Wood-McGrath											☒ Sample Container	☐ Van Dorn	☐ Pole			
Blake Spencer											☐ Carboy	☒ Syringe				
											☐ Dipper	☐ Other				
											Depth Measured with <u>meter stick</u>					
											Equipment ID					
												Collection Method				
												☐ Wading	☒ Canoe/Kayak			
												☐ From Shore	☒ Electric Motor			
												☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded						Meter ID# 18J104543				Matrix: <u>Fresh</u> Marine / DI						
Photos: Yes / <u>No</u>		Flow: No Flow / Intestinal / <u>Flowing</u> / NA		Tide: Rising/ Falling/ Slack/ NA		Tide Times: High <u>NA</u> Low <u>NA</u>										
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)						
EST	<u>1254</u>	<u>0.3</u>	<u>0.15</u>	<u>100</u>	<u>8.27</u>	<u>98.5</u>	<u>6.03</u>	<u>0.03</u>	<u>66.0</u>	<u>24.2</u>						
CEN																
Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:																
SBIO ID Numbers:		SBIO-ID:		HA-ID:		RPS-ID:		Macrophyte-ID:		LIMS#:						
Parameter Suite	Parameter Methods					Preservation	Lot#	Expiration	pH Check							
Preserved Nutrients	☒ W-NH3 / ☒ W-NO2NO3 / ☒ W-TKN / ☒ W-TOC / ☒ W-S-A-TP					☒ Ice ☒ H2SO4	<u>SA9010030</u>	<u>4/10/20</u>	☒ <2							
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☒ HNO3	<u>NA9189080</u>	<u>7/18/20</u>	☒ <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-CH-IC / ☒ W-COLOR / ☒ W-SO4-IC / ☒ W-TDS					☒ Ice										
Physical/Aggregate (Marine)	☐ Alkalinity / ☐ W-BR-IC / ☐ 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-BacR ☐ PCR-GULL2					☐ Ice										
	☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD					☐ Ice										
Tracers	☐ W-E8321-DI ☐ W-E8321-MS					☐ Ice										
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI					☐ Ice										
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA					☐ Ice										
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C					☐ Ice										
Notes: Nutrients Metals <u>E. Coli</u> <u>NO E. coli</u>												WIN ID / FILED ID → <u>G1WA0087</u> Location <u>Willacoochee Creek at 161</u>				
Signature: <u>[Signature]</u>						Date: <u>9/25/19</u>										

LIMS EVENT ID: WAS-SECT-2019-09-25-01

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 8/26 10/4/19

QC Station ID, Field Parameters In LIMS DMT: 8/26 10/18/19

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Blake Spencer

Collected By: Blake Spencer + April Ward-McGrath

Sampling Agency: FDEP

Location	WIN ID / FILED ID	Location	WIN ID / FILED ID	Location	WIN ID / FILED ID	Location	WIN ID / FILED ID
Field ID		Field ID		Field ID		Field ID	
WIN/STORET #		WIN/STORET #		WIN/STORET #		WIN/STORET #	
Latitude		Latitude		Latitude		Latitude	
Longitude		Longitude		Longitude		Longitude	
dd		dd		dd		dd	
dms		dms		dms		dms	
Matrix (type, e.g., Salt, Fresh, etc)		Matrix (type, e.g., Salt, Fresh, etc)		Matrix (type, e.g., Salt, Fresh, etc)		Matrix (type, e.g., Salt, Fresh, etc)	
Temp (C)		Temp (C)		Temp (C)		Temp (C)	
Salinity (ppt)		Salinity (ppt)		Salinity (ppt)		Salinity (ppt)	
dd		dd		dd		dd	
dms		dms		dms		dms	
Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Date		Date		Date		Date	
Time		Time		Time		Time	
Diss. Oxygen		Diss. Oxygen		Diss. Oxygen		Diss. Oxygen	
% sat		% sat		% sat		% sat	
Total Res. Chlorine		Total Res. Chlorine		Total Res. Chlorine		Total Res. Chlorine	
mg/L		mg/L		mg/L		mg/L	
ft		ft		ft		ft	
Sp. Conductance (umho/cm)		Sp. Conductance (umho/cm)		Sp. Conductance (umho/cm)		Sp. Conductance (umho/cm)	
66.0		44.1		45.3		44.1	
Comments		Comments		Comments		Comments	
No E. coli sampled; no group B		No E. coli sampled; no group B		No E. coli sampled; no group B		No E. coli sampled; no group B	
Bottle Group(s)		Bottle Group(s)		Bottle Group(s)		Bottle Group(s)	
A		A		A		A	

Relinquished By:

Date/Time

9/25/19 14:02

Shipping Method

HD

Number of Coolers Shipped:

Received By:

Date/Time

9/25/19 14:02

Group: A	Bottle Type:	P-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	ALKALINITY						
	TURBIDITY						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	4
	W-ICP				HNO3		
	W-ICPMS				LOT# NA9189080 F-EXP: 07/08/20		
Group: A	Bottle Type:	P-500ML	# of Bottles: 4	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	4
	W-NH3				H2SO4		
	W-NO2NO3				LOT# SA9010030 EXP: 04/10/2020		
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 4	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	4
	W-PO4-F						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALGAL_ID						

Date of Request: 09-JUL-2019
 Created By: MUSSON_C On: 09-JUL-2019
 Modified By: JASROTIA_P On: 11-JUL-2019
 Customer: WAS-SECT
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Little River

Send Coolers To:

Phone: 850-245-8453
 2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson

Program Module Number:
 Priority: 3
 Event Status: S
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 11-JUL-2019
 Biology Request Reviewed By: JASROTIA_P On: 11-JUL-2019
 Sampling Kit Required: YES Ship on: 25-JUL-2019
 Sampling Kit Shipped: YES On: 22-JUL-2019
 Sampling Kit Packed By: REAVES_S
 Preservatives Needed: NO
 Date to Receive Samples: 31-JUL-2019
 Received By:

Send Final Report To:

2600 Blair Stone Rd

 Tallahassee, FL 32399
 Attn: Curtis Musson

Report Type: Final Only
 FTP Data: NO
 QC Report: YES
 Date Log: NO
 Authorization Log: NO

Comments: Group A: Nutrients, Metals, E.coli x 3
 group B: Algal ID x 1

Packing Notes:
 No FedEx labels
 No Trashbags

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-1L	Number of Bottles: 4	Preserved With: ICE
ALKALINITY Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO ₃ /L	
Total Alkalinity		
TURBIDITY Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices	
Turbidity		
W-COLOR Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm	
Color (true)		
W-F Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)	
Fluoride		
W-SO ₄ -IC Template: DEFAULT	(EPA 300.0 Rev. 2.1) Sulfate in aqueous matrices	
Sulfate		
W-TDS Template: DEFAULT	(SM 2540 C-97) Total Dissolved Solids in aqueous matrices	
TDS		
W-TSS Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices using a maximum of 250 mL of sample	
TSS		
Bottle Type: BP-1L	Number of Bottles: 4	Preserved With: ICE
CHLSUITE-W Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry	
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 4	Preserved With: HNO ₃

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: HNO3
 W-ICP Template: (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Barium
 Calcium
 Iron
 Magnesium
 Potassium
 Sodium
 Zinc

W-ICPMS Template: (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

*Boron
 Aluminum
 Antimony
 Arsenic
 Cadmium
 Chromium
 Copper
 Lead
 Nickel
 Selenium
 Silver
 Thallium

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 Ammonia-N
 W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 NO2NO3-N
 W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 Total-P
 W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
 Kjeldahl Nitrogen
 W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
 Organic Carbon

Bottle Type: P-125ML Number of Bottles: 4 Preserved With: FILTER-ICE
 W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
 O-Phosphate-P

Bottle Group B (Biological) With 1 Samples:

Bottle Type: PT-50ML Number of Bottles: 1 Preserved With: ICE
 ALGAL_ID Template: DEFAULT (SOP-AB05) Qualitative assessment of algal taxa present without counts
 *Dominant sample taxon

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: 18J104543

RQ: 2019-07-28-35

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro- meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	B. Spencer	9/25/19	0730	21.1	754.7	8.84	8.85	99.4	✓	1.102	P/F	L/F
ICV			0731	21.1	754.7	8.84	8.84	99.4	→	—	P/F	L/F
CCV			1441	22.6	753.5	8.59	8.84	102.3	→	—	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 (Pro DSS 0.75 to 1.50); 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.	B. Spencer	9/25/19	0734	190618F	06/2020	1000	1000	P/F	L/F
ICV			0735	190618F	06/2020	1000	1000	P/F	L/F
CCV			1427	2902083	08/2020	100	100.7	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B. Spencer	9/25/19	0738	190618B	12/2020	7.01	22.2	7.01	-41.9	P/F	L/F
Calibr.			0741	190618A	12/2020	4.00	22.5	4.00	131.3	P/F	L/F
Calibr.			0743	190618C	12/2020	10.03	22.4	10.03	-212.2	P/F	L/F
ICV			0744	190618C	12/2020	10.03	22.4	10.02	-211.7	P/F	L/F
CCV			1438	190618A	12/2020	4.00	22.6	4.19	122.7	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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	B. Spencer	9/25/19	0746	0.00	0.00	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: