



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End

of Day CCV

Yes / No

WIN Station Name: Willacoochee Creek at 161

Date: 3/25/2020

(mm/dd/yyyy)

WIN/ Field ID: G1WA0087

WBID: 410

Latitude: 30.0374

(Decimal Degrees)

County: Gadsden

ORG ID: 21FLWQA

Longitude: -84.5008

(Decimal Degrees)

Receiving Body of Water: Little River

RQ-2020- 03-23-21

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X		X	X
Blake Spencer		X	X		

Sampling Equipment	
☒ Sample Container	☐ Van Dorn
☒ Syringe	☐ Pole
☐ 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/ Low / <u>Normal</u> / High / Flooded		Meter ID# <u>Biology #2</u>	
Photos: Yes / <u>No</u>	Flow: No Flow / <u>Flowing</u> / NA	Tide: Rising / Falling / Slack / <u>NA</u>	Tide Times: High <u>NA</u> Low <u>NA</u>
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#:	

Notes:

Duplicate Sample	
Time Zone: <u>EST</u> CEN Time: <u>1138</u>	Field ID: <u>G1WA0087_DUP</u>
WIN DMT Activity ID:	Location: <u>Willacoochee Creek at 161</u>

Blank	
Time Zone: <u>EST</u> CEN Time: <u>1122</u>	Field ID: <u>FB_03252020</u>
DI Source: <u>C-Building DI Tap</u>	Location: <u>Willacoochee Creek at 161</u>
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank	Equipment ID:

LIMS EVENT ID: WAS-SECT-2020-03-25-01 WIN Import ID: 3/27/2020
Enter Field Parameters, Verify Station ID in LIMS DMT: 3/26/20 QC Station ID, Field Parameters in LIMS DMT: 3/27/2020
(Initials/Date) (Initials/Date)

Scan/Save Field Sheets Cm 3.27.2020 Migrate Data to WIN: (Initials/Date) Verify Data in WIN: (Initials/Date)





RQ-2020- 03-23-21
Customer: WAS-SECT
Project ID: SMP

Collected By: Blake Spencer and Curtis Musson
Field Report Prepared By: Blake Spencer
Sampling Agency: FDEP

Lab Page of

WIN ID /
FILED ID →



G1WA0087

Location

Willacoochee Creek at 161

SULFURIC ACID <51%
DANGER
7584-33-5
7732-18-5
Contains: 1.1 H2SO4
May be corrosive to metals. Causes severe skin burns and eye damage. Do not breathe fumes/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. IF SWALLOWED: Rise mouth. Do not induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Show locked up. Store in a well-ventilated area. Contains with a restricted inner liner.

Contains: 1.1 H2SO4
Lot No.: SA8203100
Expires: 07/22/20
See Safety Data Sheet (SDS)

NITRIC ACID 20-70%
DANGER
7697-37-2
7732-18-5
Contains: 1.1 HNO3
May be intensely fire, oxidize. May be corrosive to metals. Causes severe skin burns and eye damage. Keep away from heat/spark sources. No smoking. Do not breathe fumes/vapors. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Show locked up. Store in a well-ventilated area. Contains with a restricted inner liner.

Contains: 1.1 HNO3
Lot No.: NA9189080
Expires: 07/08/20
See Safety Data Sheet (SDS)

Matrix: Fresh / Marine

(Check one)

☒ GRAB

☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT _h)
3/25/20	1132 EST CST	8.30	93.8	21.39	6.49	0.15	VOB (S)	0.3	68	0.03

Cental Lab please use top row for login purposes

	EST / CST									
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Parameter Suite	Parameter Methods	Preservation	pH Check	# Bottles sent to Lab	Bottle Group
Preserved Nutrients (P-500ML)	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4*	☒ <2	1	A
	Lot # Exp:				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP ☐ W-HARD	☒ Ice ☒ HNO3*	☒ <2	1	A
	Lot # Exp:				
Filtered Nutrients (P125ML)	☐ W-PC4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
	Filter Lot # Syringe Lot #				
Chlorophyll (BP-1L)	☐ CHLSUIT ^{EW}	☐ Ice			
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice		1	A
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates (PJ-2L)	☐ MI-FW-QLDC	☐ Formalin			
Periphyton (PT-50ML)	☐ ALGAE-ID	☐ Ice			
Microbiology (Contract Lab Bottle)	☒ E Coli ☐ F Coli ☐ Enterococci	☐ Ice		1	A
	☐ Contract Lab				
Molecular (QPCR-P-500ML)	☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3	☐ Ice			
	☐ PCR-GULL2 ☐ PCR-GFD ☐ See Notes				
Tracers (BG-500ML)	☒ W-E8321-DI ☒ W-E8321-MS	☐ Ice		1	A
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)				

Name:

Blake Spencer

Signature:

Blake Spencer

Date:

3/25/20

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

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: **B10 #2**

RQ: **2020-03-23-24**

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	3/25/20	0706	20.50	760	9.003	9.00	100.0%	43.1	—	P / F	L / F
ICV	B. Spencer	3/25/20	0707	20.51	760	9.003	9.99	99.8%	43.1	—	P / F	L / F
CCV	B. Spencer	3/25/20	1319	20.31	760	9.039	8.90	98.4%	39.0	—	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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	B. Spencer	3/25/20	0709	191120A	12/2020	1000	1000	P / F	L / F
ICV	B. Spencer	3/25/20	0710	191120A	12/2020	1000	997	P / F	L / F
CCV	B. Spencer	3/25/20	1322	2008081	09/2021	100	103	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	B. Spencer	3/25/20	0713	190619B	12/2020	7.02	20.85	7.02	-32.7	P / F	L / F
Calibr.	B. Spencer	3/25/20	0716	200221A	09/2021	4.00	20.83	4.60	142.1	P / F	L / F
Calibr.	B. Spencer	3/25/20	0720	190618C	12/2020	10.05	20.93	10.03	-201.0	P / F	L / F
ICV	B. Spencer	3/25/20	0721	190618C	12/2020	10.04	21.14	10.02	-200.7	P / F	L / F
CCV	B. Spencer	3/25/20	1325	200221A	09/2021	4.00	21.19	4.06	137.9	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)

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						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:

Little River

Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Curtis Musson

Project ID: SMP

Collected By:

Curtis Musson

Sampling Agency:

FDEP

Location		WIN ID / FILED ID → 		☐ Comp ☐ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		G1WA0020		Date 3/25/20		Time 1251		Date		Time		(See pg 2)	
WIN/STORE		Little River 100 meters upstream of SR 12		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		B	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C) 21.57		pH 6.65		Sample Depth 0.25	
				Salinity (ppt) 0.04		Comments		Sp. Conductance (umho/cm) 92					
Location		WIN ID / FILED ID → 		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		G1WA0073		Date 3/25/20		Time 0943		Date		Time			
WIN/STORE		Little River 100 meters upstream of US 90		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		B	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C) 21.43		pH 6.48		Sample Depth 0.3	
				Salinity (ppt) 0.04		Comments		Sp. Conductance (umho/cm) 95					
Location		WIN ID / FILED ID → 		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		G1WA0091		Date 3/25/20		Time 0856		Date		Time			
WIN/STORE #		Double Branch at CR159		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		B	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C) 20.75		pH 5.86		Sample Depth 0.1	
				Salinity (ppt) 0.02		Comments		Sp. Conductance (umho/cm) 0.02					
Location		WIN ID / FILED ID → 		☐ Comp ☒ Grab		Collection (comp begin or grab)		☒ Eastern ☐ Central		Composite end		Bottle Group(s)	
Field ID		G1WA0075		Date 3/25/20		Time 1211		Date		Time			
WIN/STORE #		Lewis Creek Upstream of 157		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L)		B	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C) 23.43		pH 6.51		Sample Depth 0.1	
				Salinity (ppt) 0.03		Comments		Sp. Conductance (umho/cm) 68					

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

ABP

3-25-20/11301

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Curtis MussonCollected By: Curtis MussonSampling Agency: FDEP

Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>3/25/20</u> Time <u>1132</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s) (See pg 2)	
Field ID	WIN ID / FILED ID →  G1WA0087	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>93.8</u>		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) <u>—</u>		A	
WIN/STORET #	Location  Willacoochee Creek at 161	Temp (C) <u>24.38</u>		pH <u>6.48</u>		Sample Depth <u>0.15</u>		Sp. Conductance (umho/cm) <u>68</u>			
Latitude	☐ dd ☐ dms	Longitude		☐ dd ☐ dms		Salinity (ppt) <u>0.03</u>		Comments			
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>3/25/2020</u> Time <u>0821</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID	WIN ID / FILED ID →  G1WA0086	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>90.1</u>		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) <u>—</u>		A	
WIN/STORET #	Location  Little River at Highbridge Road	Temp (C) <u>21.41</u>		pH <u>6.56</u>		Sample Depth <u>0.3</u>		Sp. Conductance (umho/cm) <u>95</u>			
Latitude	☐ dd ☐ dms	Longitude		☐ dd ☐ dms		Salinity (ppt) <u>0.04</u>		Comments			
Location		☐ Comp ☒ Grab		Collection (comp begin or grab) Date <u>3/25/20</u> Time <u>0009</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID	WIN ID / FILED ID →  G1WA0093	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>98.6</u>		☐ mg/L ☒ % sat		Total Res. Chlorine (mg/L) <u>—</u>		B	
WIN/STORET #	Location  Richlander Creek at CR 65B	Temp (C) <u>20.85</u>		pH <u>6.67</u>		Sample Depth <u>0.2</u>		Sp. Conductance (umho/cm) <u>62</u>			
Latitude	☐ dd ☐ dms	Longitude		☐ dd ☐ dms		Salinity (ppt) <u>0.03</u>		Comments			
Location		☐ Comp ☐ Grab		Collection (comp begin or grab) Date <u>3/25/20</u> Time <u>1138</u>		☒ Eastern ☐ Central		Composite end Date _____ Time _____		Bottle Group(s)	
Field ID	WIN ID ID ↓  G1WA0087 Field ID ↑	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>—</u>		☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L) <u>—</u>		A	
WIN/STORET #	Location  Willacoochee Creek at 161	Temp (C) <u>—</u>		pH <u>—</u>		Sample Depth <u>0.15</u>		Sp. Conductance (umho/cm) <u>—</u>			
Latitude	☐ dd ☐ dms	Longitude		☐ dd ☐ dms		Salinity (ppt) <u>—</u>		Comments <u>Field Duplicate</u>			

Relinquished By: <u>Curtis Musson</u>	Date/Time <u>3/25/20 13:01</u>	Shipping Method <u>Drop off</u>	Number of Coolers Shipped: <u>3</u>	Received By: <u>AR</u>	Date/Time <u>3-25-20/13:01</u>
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Florida Department of Environmental Protection Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis MussonField Report Prepared By: CONR MUSSON

Project ID: SMP

Collected By: Curtis MussonSampling Agency: FDEP

Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>3/25/20</u> Time <u>0922</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) (See pg 2) <u>B</u>
Field ID	WIN ID / FILED ID →  G1WA0098	Matrix (type, e.g., Salt, Fresh, etc.) <u>Fresh</u>		Diss. Oxygen <u>96.9</u>	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L) _____		
WIN/STORET	Location  Hurricane Creek at US 90	Temp (C) <u>21.12</u>	pH <u>6.90</u>	Sample Depth <u>0.1</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>144</u>		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.07</u>	Comments			
Location		☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>3/25/20</u> Time <u>1122</u>		☒ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s) <u>C</u>
Field ID	FILED ID →  FB_03252020	Matrix (type, e.g., Salt, Fresh, etc.) <u>Blank (DI)</u>		Diss. Oxygen _____	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) _____		
WIN/STORET	Location  Willacoochee Creek at 161	Temp (C) _____	pH _____	Sample Depth _____	☐ ft ☐ m	Sp. Conductance (umho/cm) _____		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) _____	Comments <u>Field Blank</u>			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc.)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			
Location		☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____		☐ Eastern ☐ Central	Composite end Date _____ Time _____		Bottle Group(s)
Field ID		Matrix (type, e.g., Salt, Fresh, etc.)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By: <u>ABP</u>	Date/Time <u>3-25-20/13:01</u>
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Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ECOLI-18QT						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
	W-ICP W-ICPMS		Lot # NA9189080 Exp 7-8-2020				
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC		Lot # 3A9203100 Exp 7-22-2020				
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	0
	W-PO4-F						
Group: B	Bottle Type:	P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F						

Group: B	Bottle Type: W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
Group: B	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
Group: B	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4 Lot# SA9203100 EXP: 7-22-2020	Enter Number of Bottles Sent to Lab <u>6</u>
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 6	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab <u>6</u>
Group: C	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
Group: C	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>1</u>
Group: C	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 1	Preservative: HNO3 Lot# NA9189080 EXP 7.8.20	Enter Number of Bottles Sent to Lab <u>1</u>
Group: C	Bottle Type: W-NH3	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab <u>1</u>

Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
	W-NO2NO3				
	W-S-A-TP				
	W-TKN				
	W-TOC				

Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F				

Cooler Packing Worksheet for Request: RQ-2020-03-23-21**Little River****Ship Cooler On: 3/19/2020****Customer/Project: WAS-SECT/SMP****Assigned To: KLUG_K****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, E. coli, Metals, Tracers x 2

Group A: Little River At Highbridge Road, Willachoochee Creek At 161, DUP

Group B: Nutrients, E. coli x 6

Group C: Nutrients, Metals, Tracers

Field Blank

Packing Notes:

No Fedex Labels

No Trash Bags

No Bubblewrap

Requested Analyses:**Bottle Group: A****# of Sites: 3****Container ID: P-1L****Qty: 3 Preservation: ICE****Lot #** 00076981**Description: Plastic Bottle 1L****Analysis**

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

W-TDS

W-TSS

DescriptionAlkalinity in aqueous matrices as mg CaCO₃/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm (not valid for NPDES monitoring)

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1268908

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # 119267

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: BG-500ML

Qty: 3 Preservation: ICE

Lot # 00075651

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00076673

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00076673

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: 3 Preservation: FILTER-ICE

Lot # 00076883

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: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00075981

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 (not valid for NPDES monitoring)

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 6 Preservation: ICE

Lot # 1268908

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 6 Preservation: ICE

Lot # 419267

Description: 250 ml Sterilized no tablet

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00076643

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

Description

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: 6 Preservation: FILTER-ICE

Lot # 00076883

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00076670

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 (not valid for NPDES monitoring)

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 using a maximum of 250 mL of sample

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00075651

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS

Container ID: P-500ML

Qty: 1 Preservation: HNO3

Lot # 00076643

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00076643

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: 1 Preservation: FILTER-ICE

Lot # 00076883

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: AK

Number of Coolers: 3

Date: 3-16-20

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☐ Acid Labels (sets of 24)

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2020-03-23-21