



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?

Yes / No

Location/STORET Station Name: East River Downstream of Boggy Bayou

Date: 10/11/2017

(mm/dd/yyyy)

STORET # G1WA0056

WBID: 1089

Latitude: 30.0972

(Decimal Degrees)

County: Wakulla

RQ - 2017-10-09-24

ORG ID: 21FLWQA

Longitude: -84.1752

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Field ID: G1WA0056_10112017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Benjamin Ralys						X	X		
Raymond Stuart					X			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# 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 (µmhos/cm)	Temp. (C°)
EST	12:00	0.3	2.3	3.41	49.8	7.27	20.43	1.0	32821	28.74
CEN	12:12	1.8		3.20	46.5	7.31	20.47		32877	28.67

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

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1936094

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	SA7233030	7/2/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3		8/21/18	☐ <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: Field ID → East River Downstream of Boggy Bayou

Oct 11, 2017

Signature: B. R.

East River Downstream of Boggy Bayou

STORET ↓

G1WA0056_10112017

G1WA0056

Date: 10/11/17

Field Parameters Entered into LIMS: CM 10/20/17 Field Parameters QC in LIMS: 606 4/11/18

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

(Initials/Date)

(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: Bio 2

RQ- 2017-10-30-46 *cm*

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	10/10/17	1547	24.20	8.387	8.39	100.0	53	—	P/F	L/F
ICV	Curtis Musson	10/10/17	1548	24.14	8.387	8.40	100.1	52	—	P/F	L/F
CCV					8.403					P/F	L/F
CCV	Ben Ralys	10/11/17	1515	24.39	8.37	8.45	101.1	52.3		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	10/10/17	1550	170614E	6/18	1000	1000	P/F	L/F
ICV	Curtis Musson	10/10/17	1551	170614E	6/18	1000	1000	P/F	L/F
CCV	Ben Ralys	10/11/17	1516	170614L	6/20/18	50,000	49,242	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	10/10/17	1552	170310B	9/20/18	7.0	7.00	56	P/F	L/F
Calibr.	Curtis Musson	10/10/17	1554	170614A	6/20/18	4.01	4.01	52	P/F	L/F
Calibr.	Curtis Musson	10/10/17	1559	170310C	9/18	10.01	9.97	103	P/F	L/F
ICV	Curtis Musson	10/10/17	1603	170310C	9/18	10.01	9.98	53	P/F	L/F
CCV	Ben Ralys	10/11/17	1518	170614A	6/20/18	4.0	4.11	210.4	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	Curtis Musson	10/10/17	1546	0.00	-0.001	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:

Request Number: 2017-10-09-24

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

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Dickson Bay, St. Marks River
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Collected By: Benjamin Polys / Raymond W. Stuart

Field Report Prepared By: Raymond W. Stuart
Sampling Agency: FDEP

Loc **Apalachee Bay** STORET ↓
at Channel
Marker 5
File **ATWA00048**

Field IC →
Apalachee Bay at Channel Marker 5
ST
Oct 11, 2017
ATWA00048_10112017

☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
☒ Grab	Date 10/11/17 Time 12:30pm	☒ Central	Date	
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
Temp (C) 28.64	pH 7.84	Sample Depth (m) 0.3	Sp. Conductance (umho/cm) 37721	A
Salinity (ppt) 23.84	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Loc **St. Marks River** STORET ↓
at Channel
Marker 22
File **ATWA00008**

Field IC →
St. Marks River at Channel Marker 22
ST
Oct 11, 2017
ATWA00008_10112017

☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
☒ Grab	Date 10/11/17 Time 1:05pm	☒ Central	Date	
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
Temp (C) 27.12	pH 7.64	Sample Depth (m) 0.3	Sp. Conductance (umho/cm) 13308	A
Salinity (ppt) 7.64	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Loc **St. Marks River** STORET ↓
at Channel
Marker 60
File **ATWA00055**

Field IC →
St. Marks River at Channel Marker 60
STO
Oct 11, 2017
ATWA00055_10112017

☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
☒ Grab	Date 10/11/17 Time 1:20pm	☒ Central	Date	
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
Temp (C) 23.64	pH 7.62	Sample Depth (m) 0.3	Sp. Conductance (umho/cm) 642	A, B
Salinity (ppt) 0.31	Comments			
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		

Relinquished By: [Signature]
Date/Time 10/11/17

Number of Coolers 3
Received By: [Signature]
Date/Time 10/11/17 2:50

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Request Number: 2017-10-09-24
 Customer: WAs-SECT
 Project ID: SMP
 Requester: Curtis Musson
 Field Report Prepared By: FDEP
 Sampling Agency: FDEP

Collected By:

Loc	Dickson Bay South	STORET ↓ G1WA00063	☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
			☒ Grab	Date 10/11/17	Time 9:50 am	Central	

Field ID →	Dickson Bay South	Oct 11, 2017	27.21	29.98033	-84.35245	A
Temp (°C)	28.60	pH	7.55	Sample Depts (m)	0.3	
Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	42494	
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				
Matrix (Salt, Fresh)		Dis. Oxygen (mg/L)	3.59			

Loc	Dickson Bay North	STORET ↓ G1WA00062	☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
			☒ Grab	Date 10/11/17	Time 9:30 am	Central	

Field ID →	Dickson Bay North	Oct 11, 2017	27.10	29.98847	-84.35098	A
Temp (°C)	28.63	pH	8.72	Sample Depts (m)	0.3	
Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	42344	
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				
Matrix (Salt, Fresh)		Dis. Oxygen (mg/L)	6.11			

Loc	East River Downstream of Boggy Bayou	STORET ↓ G1WA00056	☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
			☒ Grab	Date 10/11/17	Time 12:00 pm	Central	

Field ID →	East River Downstream of Boggy Bayou	Oct 11, 2017	20.43	30.0972	-84.1752	A
Temp (°C)	28.74	pH	7.27	Sample Depts (m)	0.3	
Salinity (ppt)		Comments		Sp. Conductance (umho/cm)	32821	
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)				
Matrix (Salt, Fresh)		Dis. Oxygen (mg/L)	3.41			

Relinquished By:	Date/Time	Number of Coolers	Received By: <u>9.12</u>	Date/Time
				10/11/17 2:50

Request Number: 2017-10-09-24

Dickson Bay, St. Marks River

Customer: WAS-SECT

Project ID: SMP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By:

Field Report Prepared By: FDEP
Sampling Agency: FDEP

STORET #
Mouth of
East River
G1WA0011

Field ID: Mouth of East River
Oct 11, 2017
G1WA0011_1012017

☐ Comp	Collection (comp begin or grab)	☒ Eastern	Collection (comp begin or grab)	Bottle Group(s)
☒ Grab	Date 10/11/17	Time 11:40 am	Date	Time
Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	20.14	Sample Depts (m)	Sp. Conductance (umho/cm)
Temp (C)	pH	7.49	0.3	32402
Salinity (ppt)	Comments			
20.14				
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		
30.0893		-84.1774		

Location	Collection (comp begin or grab)		Collection (comp begin or grab)		Bottle Group(s)
	☐ Comp ☐ Grab	Date	Time	Date	
Field ID	Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	Sample Depts (m)	Sp. Conductance (umho/cm)	
	Temp (C)	pH			
	Salinity (ppt)	Comments			
STORET #	Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		
Location	☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Collection (comp begin or grab)	Bottle Group(s)
		Date	Time	Date	Time
Field ID	Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)			
	Temp (C)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	
	Salinity (ppt)	Comments			
STORET #	Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		
Relinquished By:	Date/Time	Number of Coolers		Received By:	Date/Time

Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	ALKALINITY						
	TURBIDITY						
	W-F						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	7
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	7
	W-PO4-F						
Group: B	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ENT-24-QT						
Group: B	Bottle Type:	P-120ML-OC	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	FCOLI-MF						

Group: A	Bottle Type: ALKALINITY TURBIDITY W-F W-TSS	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>7</u>
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab <u>7</u>
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 7	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab <u>7</u>
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 7	Preservative: ICE-FLTR		Enter Number of Bottles Sent to Lab <u>7</u>
Group: B	Bottle Type: ENT-24-QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE		Enter Number of Bottles Sent to Lab <u>1</u>
Group: B	Bottle Type: FCOLI-MF	P-120ML-OC	# of Bottles: 1	Preservative: ICE		Enter Number of Bottles Sent to Lab <u>1</u>

Cooler Packing Worksheet for Request: RQ-2017-10-09-24

Dickson, St Marks

Ship Cooler On: 10/3/2017

Customer/Project: WAS-SECT/SMP

Assigned To: REAVES_S

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Marine Kit, No Metals

Group B: Microbiology

1 ca. H2SO4

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7

Preservation: ICE

Lot #

Description: Plastic Bottle 1L

00067591-3
00069122-4

Analysis

ALKALINITY

TURBIDITY

W-F

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 7

Preservation: ICE

Lot #

Description: Brown Plastic Bottle 1L

1199138

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 7

Preservation: ICE And H2SO4

Lot #

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

00068654

Analysis

W-NH3

W-NO2NO3

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

W-S-A-TP
W-TKN
W-TOC

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: 7 Preservation: ICE-FLTR

Lot # 00068347

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: 1

Container ID: P-250ML-WO-THI

Qty: 1 Preservation: ICE

Lot # 0006834
L16292

Description:

Analysis

ENT-24-QT

Description

Enterococci by Enterolert Quanti-Tray method - non-chlorinated water systems

Container ID: P-120ML-OC

Qty: 1 Preservation: ICE

Lot # 6K20-TN

Description:

Analysis

FCOLI-MF

Description

Fecal coliforms by membrane filter method - non-chlorinated water systems

Cooler Packed By: SK

Number of Coolers: 3

Date: 10-3-17

Kit must also include:

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

If Preservation Included:

ID <u>Sulfuric Acid</u>	Exp <u>8-21-18</u>	Lot # <u>BA 7235030</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-09-24