FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / (No)

WIN Station Name: East River Downstream of Boggy Bayou **Date:** ~~4/4/2018~~ JA 4/5/2018 (mm/dd/yyyy)

WIN/ Field ID: G1WA0056 **WBID:** 1089 **Latitude:** 30.0972 (Decimal Degrees)

County: Wakulla **ORG ID:** 21FLWQA **Longitude:** -84.1752 (Decimal Degrees)

Receiving Body of Water: Gulf of Mexico **RQ-2018-** 04-02-23

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson		X			
Jason Storrs	X		X	X	X

Sampling Equipment
- [X] Sample Container [ ] Van Dorn [ ] Pole
- [ ] Carboy [ ] Syringe
- [ ] Dipper [ ] Other
- Depth Measured with: Sonar #1
- Equipment ID: ~~Biology #2~~ JA

Collection Method
- [ ] Wading [ ] Canoe/Kayak
- [ ] From Shore [ ] Electric Motor
- [ ] Other [X] Gasoline Motor

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded **Meter ID#** Biology #2 **Matrix:** Fresh / (Marine) / DI

Photos: Yes / (No) **Flow:** No Flow / Intestital / Flowing / (NA) **Tide:** Rising/ (Falling)/ Slack/ NA **Tide Times:** High 504pm Low 1110 am

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTh)	Sp COND (µmhos/cm)	Temp. (C°)
(EST)	1150	2.0	0.3	1.4	6.83	82.2	8.07	14.46	23796	20.32
CEN	1148		1.5		6.99	83.6	8.09	14.51	23870	19.92

Biological Samples Collected: (None) 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	[X] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	[X] Ice [X] H_2SO_4	SA7341020	12/7/18	[X] <2
Metals	[ ] W-ICPMS [ ] W-ICP	[ ] Ice [ ] HNO_3			[ ] <2
Filtered Nutrients	[X] W-PO4-F [X] Field Filtered 0.45 µm Filter	[X] Ice	10827054		
Chlorophyll	[X] CHLSUITE-W	[X] Ice			
Physical/Aggregate (Fresh)	[ ] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	[ ] Ice			
Physical/Aggregate (Marine)	[X] Alkalinity / W-F / W-TSS / TURBIDITY	[X] Ice			
Macroinvertebrates	[ ] MI-FW-QLDC	[ ] Formalin			
Periphyton	[ ] ALGAE-ID	[ ] Ice			
Microbiology	[ ] E Coli [X] F Coli [X] Enterococci	[X] Ice			
Molecular	[ ] PCR-FILTER [ ] PCR-HF183 [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-GFD	[ ] Ice			
Tracers	[ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA	[ ] Ice			
Pesticides	[ ] W-PSNP-TQ [ ] W-UHERB-AA [ ] W-AHERB-AA [ ] W-CARB-AA [ ] W-PCL-SQ-R [ ] W-PYR-AA-R [ ] W-GLYPH [ ] W-SUC-AA-R	[ ] Ice [ ] Other			

Contains: 1:1 H2S04
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Place Preservat (If A

SULFURIC ACID <51% DANGER

Notes:
Kit-B, C2 Bacteria
Need to have sample time changed in LIMS from 9:15 to 11:50

East River Downstream of Boggy Bayou

WIN -ID Field ID
G1WA0056

Signature: **Date:** 4/5/2018

Enter Field Parameters, Verify Station ID In LIMS DMT: JS 4.12.18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: CM 4.12.18 (Initials/Date)

Scan/Save Field Sheets _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)

QA/QC Sample Information

Duplicate

Time Zone: EST CEN **Time:** _____ **Field ID:** G1WA0063_DUP (WIN ID + DUP)

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H_2SO_4			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice			
Chlorophyll	☐ CHLSUITE-W	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Blank

Time Zone: EST CEN **Time:** 915 **Field ID:** Blank_04052018 (BLANK_DDMMYYYY)

DI Source: DEP Lab **Location:** Dickson Bay South

☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank **Equipment ID:** _____

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H_2SO_4	S47341020	12/7/18	☒ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO_3			☐ < 2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	10827054		
Chlorophyll	☐ CHLSUITE-W	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes:

Field Blank
DI Water

Field ID
Blank_04052018

Signature: _____ **Date:** 4/5/2018

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: _____ (Initials/Date)

Scan/Save Field Sheets _____ (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (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 page.

Meter ID: Biology #2 RQ- 2018-04-02-JS Project: St Marks

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.	Jason Sterrs	4/4/2018	1730	22.73	8.627	8.62	100.0	55.3		(P) / F	(L) / F
ICV	Jason Sterrs	4/4/2018	1735	22.67	8.627	8.63	100.0	55.3		(P) / F	(L) / F
CCV	Jason Sterrs	4/5/2018	1345	22.71	8.627	8.73	101.1	55.3		(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; 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.	Jason Sterrs	4/4/18	1700	171005D	10/2018	1,000	1,000	(P) / F	(L) / F
ICV	Jason Sterrs	4/4/18	1705	180326A	4/2019	100	100	(P) / F	(L) / F
CCV	Jason Sterrs	4/5/18	1350	170614C	6/2018	50,000	49,490	(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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Jason Sterrs	4/4/18	1710	171005B	4/2019	7.0	7.0	13.1	(P) / F	(L) / F
Calibr.	Jason Sterrs	4/4/18	1715	171005A	10/2018	4.0	4.0	194.8	(P) / F	(L) / F
Calibr.	Jason Sterrs	4/4/18	1720	171005C	4/2019	10.0	9.97	-151.2	(P) / F	(L) / F
ICV	Jason Sterrs	4/4/18	1725	171005C	4/2019	10.0	9.86	-145.6	(P) / F	(L) / F
CCV	Jason Sterrs	4/5/18	1355	171005B	4/2019	7.0	6.99	17.0	(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)

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	Jason-Sterrs	4/4/18	1708	0.00	0.000	(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: replaced batteries, cap loose on meter & seemed a little dry (DO) conductivity bounced a bit before calibration and pH close on verification

Request Number: RQ-2018-04-02-23

Dickson, St.Marks, East River

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Storrs / Musson DEP

Field Report Prepared By: Jason Storrs

Sampling Agency: FDEP

Dickson Bay North

WIN-ID / Field ID: G1WA0062

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/5/2018 Time 855 | Eastern / Central | Composite end Date Time | Bottle Group(s) (See pg 2): A

Matrix (type, e.g., Salt, Fresh, etc): Salt | Diss. Oxygen: 87.9 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): —

Temp (C): 18.96 | pH: 8.17 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 40900

Salinity (ppt): 26.24 | Comments:

Dickson Bay South

WIN-ID / Field ID: G1WA0063

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/5/2018 Time 925 | Eastern / Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): Salt | Diss. Oxygen: 89.4 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): —

Temp (C): 17.17 | pH: 8.21 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 40138

Salinity (ppt): 25.69 | Comments: Paired with DUP @ 1150 on 4/11/18

East River Downstream of Boggy Bayou

WIN-ID / Field ID: G1WA0056

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/5/2018 Time 915 | Eastern / Central | Composite end Date Time | Bottle Group(s): A

Matrix (type, e.g., Salt, Fresh, etc): ~~DI~~ Salt | Diss. Oxygen: 82.2 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): —

Temp (C): 20.32 | pH: 8.07 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 23796

Salinity (ppt): 14.46 | Comments:

St. Marks River at Channel Marker 60

WIN-ID / Field ID: G1WA0055

Latitude ☐ dd ☐ dms | Longitude ☐ dd ☐ dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 4/5/2018 Time 1215 | Eastern / Central | Composite end Date Time | Bottle Group(s): A, B

Matrix (type, e.g., Salt, Fresh, etc): Fresh ~~Salt~~ | Diss. Oxygen: 73.6 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L): —

Temp (C): 20.10 | pH: 8.05 | Sample Depth: 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm): 514

Salinity (ppt): 0.25 | Comments:

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	4/5/2018 1330 ~~1400~~	Drop off			4/5/18 1:32pm

Request Number: RQ-2018-04-02-23

Dickson, St.Marks, East River

Customer: WAS-SECT

Project ID: SMP

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Requester: Curtis Musson

Collected By: Stoirs / Musson DEP

Field Report Prepared By: Jason Stoirs

Sampling Agency: FDEP

Dickson Bay South

WIN ID → G1WA0063

Field ID G1WA0063_DUP

Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/5/2018 Time 930	Eastern / Central	Composite end Date Time	Bottle Group(s) (See pg 2)	
		Matrix (type, e.g., Salt, Fresh, etc) Salt	Diss. Oxygen —	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
		Temp (C) —	pH —	Sample Depth 0.3 ☐ ft ☒ m	Sp. Conductance (umho/cm) 40138		
		Salinity (ppt) 25.69	Comments QC DUP				

Field Blank DI Water

Field ID Blank_04052018

Latitude ☐ dd ☐ dms	Longitude ☐ dd ☐ dms	☐ Comp ☒ Grab	Collection (comp begin or grab) Date 4/5/2018 Time 915	Eastern / Central	Composite end Date Time	Bottle Group(s)	
		Matrix (type, e.g., Salt, Fresh, etc) DI	Diss. Oxygen —	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		
		Temp (C) —	pH —	Sample Depth — ☐ ft ☐ m	Sp. Conductance (umho/cm) —		
		Salinity (ppt)	Comments QC Blank				

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:	Date/Time
	4/5/2018 1330 / 1400	Drop off			4-5-18 / 1:52pm

Cooler Packing Worksheet for Request: RQ-2018-04-02-23
Dickson, St.Marks, East River
Ship Cooler On: 3/29/2018
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: Marine Kit, FC, ENTRO
Group B: Marine KIt QC Blank

Packing Notes:
No FedEx Labels
No Trash Bags
No Zip Ties
2 - submital forms
2 - liters of DI water for QC Blank

Requested Analyses:

Bottle Group: A **# of Sites: 5**

Container ID: P-1L **Qty: 5** **Preservation: ICE** **Lot #** 0606762983

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 5** **Preservation: ICE** **Lot #** 1214297

Description: Brown Plastic Bottle 1L

Analysis	Description
CHLSUITE-W	Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry

Container ID: P-500ML **Qty: 1** **Preservation: ICE And H2SO4** **Lot #** 00067368

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	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: 1** **Preservation: FILTER-ICE** **Lot #** 00068595

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Cooler Packed By: HH Number of Coolers: 2 Date: 3/29/18

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- ___ FedEx Bills, if applicable
- ___ Plastic Bags
- ___ Zip Ties

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2018-04-02-23