



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

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Data Qualified?

Yes / No

STORET Station Name: St. Marks River at Channel Marker 22

Date: 10/05/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0008

WBID: 793A

Latitude: 30.0929

(Decimal Degrees)

County: Wakulla

RQ - 2016-10-03-48

ORG ID: 21FLWQA

Longitude: -84.1939

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Field ID: G1WA0008_10052016

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Ralys					X		X	X	☒ Sample Container	☐ Van Dorn	☐ Pole	
Ray Stuart				X		X			☐ 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 / Low / <u>Normal</u> / High / Flooded				Matrix: Fresh / <u>Marine</u> / DI				Tide Falling: Yes / No / NA				
Meter ID# Biology #2				Photos: Yes / <u>No</u>								
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>	10:45	0.3		9.50	110.3	7.8	7.25	Current too strong	12650	24.52		
CEN												
Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other												
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		6209120		7/27/17 ☐ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2				☐ <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						
Microbiology		☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR				☐ Ice						
Periphyton		☐ ALGAE-ID				☐ Ice						
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R				☐ Ice						
		☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Other						

Notes:



G1WA0008 05 Oct 2016

St. Marks River at Channel Marker 22

Signature: *Ben Ralys*

Date: 10/5/16

Field Parameters Entered into LIMS:

(Initials/Date) *cm 10/7/16*

Field Parameters QC in LIMS:

(Initials/Date)

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 where is questioned data on this page.

Meter Biology #2

RQ- 2016-10-03-48

Project SMP

DO

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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 09/23/2016

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.	Ben Ralys	10/5/16	7:10	21.88	8.77	8.76	100.0	42.0	-	P	L
ICV	Ben Ralys	10/5/16	7:12	21.89	8.77	8.76	100.0	42.0	-	P	L
CCV	Raymond Stuart	10/6/16	7:36	21.94	8.76	10.85	123.9	42.0			
CCV	Raymond Stuart	10/6/16	7:36	21.94	8.76	10.85	123.9	42.0		F	L

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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 $\mu\text{mhos/cm}$	Meter Reading $\mu\text{mhos/cm}$	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	10/5/16	7:14	160330D	4/2017	1,000	1,000	P	L
ICV	Ben Ralys	10/5/16	7:16	160330D	4/2017	1,000	1,000	P	L
CCV	Raymond Stuart	10/6/16	7:18	2510F25	10/2017	100	100	P	L
CCV	Raymond Stuart	10/6/16	7:24	160330E	4/2017	50,000	49,500	P	L

Report specific conductance as a whole number with no decimal figure.

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.	Ben Ralys	10/5/16	7:18	160330B	10/2017	7.0	6.99	-22.7	P	L
Calibr.	Ben Ralys	10/5/16	7:20	160330A	4/2017	4.0	4.00	155.1	P	L
Calibr.	Ben Ralys	10/5/16	7:23	160330C	10/2017	10.0	9.99	-191.3	P	L
ICV	Ben Ralys	10/5/16	7:23	160330C	10/2017	10.0	9.99	-191.3	P	L
CCV								-191.1		
CCV	Raymond Stuart	10/6/16	7:30	160330B	10/2017	7.0	7.2	-24.7	P	L

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or $\pm 0.05\text{m}$, whichever is greater

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Collected By: Ben Ralys, Ray Stuart

Field Report Prepared By: Ben Ralys

Sampling Agency: CDEP

Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Comp	Collection (comp begin or grab)	Time	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)
Chicken Branch at Old Plank Rd	GLWA0031-10052016	GLWA0031	30.3261	-84.1481	20.74	7.5	0.12	☒ Comp	10/5/16	8:40am	0.3	3.86	☒ mg/L	—	(See pg 2)
Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Comp	Collection (comp begin or grab)	Time	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)
Maricah Creek 100 meters upstream of Newport Rd	GLWA0057-10052016	GLWA0057	30.1857	-84.1929	21.64	7.8	0.18	☒ Comp	10/5/16	9:18am	0.3	7.50	☒ mg/L	—	
Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Comp	Collection (comp begin or grab)	Time	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)
St Marks River at Channel Marker 60	GLWA0055-10052016	GLWA0055	30.1447	-84.2088	22.45	7.4	0.23	☒ Comp	10/5/16	10:15am	0.3	7.62	☒ mg/L	—	
Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Comp	Collection (comp begin or grab)	Time	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)
St. Marks River at Channel Marker 22	GLWA0008-10052016	GLWA0008	30.0929	-84.1939	24.52	7.8	7.25	☒ Comp	10/5/16	10:45am	0.3	9.50	☒ mg/L	—	
Location	Field ID	STORET #	Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Comp	Collection (comp begin or grab)	Time	Sample Depth	Diss. Oxygen	% sat	Total Res. Chlorine	Bottle Group(s)

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

10/5/16 2:09pm Hand Delivered

10-5-16 14:09

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last revised Apr 7, 2016

Field Report Prepared By: Ben Ralys
Sampling Agency: CIDEP

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Relinquished By:	Date/Time	Shipping Method
<i>[Signature]</i>	10/5/16 2:09pm	Standard Delivery

Cooler Packing Worksheet for Request: RQ-2016-10-03-48

East River, St. Marks River and Chicken Branch

Ship Cooler On: 9/29/2016

Customer/Project: WQAP/SMP

Requester: Benjamin Ralys

Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Ben Ralys

Comments:

No preservatives needed.

Bottle Group A: Saltwater chemistry suite

Bottle Group B: Freshwater chemistry suite

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

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: 4 Preservation: ICE

Lot # 1172350

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: ICE And H₂SO₄

Lot # 00065372

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

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: 4 Preservation: ICE-FLTR

Lot # 00065393

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-1L

Qty: 1 Preservation: ICE

Lot # 00064935

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: 1 Preservation: ICE

Lot # 1172350

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00065372

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: ICE-FLTR

Lot # 00065393

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: C Date: 9/29/16

DEP Cooler ID #(s): 2 coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☒ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>N/A</u>	Lot # _____
ID <u>N/A</u>	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-10-03-48