



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 15

Data Qualified?
Yes / No

STORET Station Name: St. Marks River at Channel Marker 60

Date: 6/1/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0055

WBID: 793A

Latitude: 30.1447

(Decimal Degrees)

County: Wakulla

RQ - 2016-05-30-45

ORG ID: 21FLWQA

Longitude: -84.2088

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Field ID: G1WA0055

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Ben Ralys		X		X	X	X	NA	NA
Justin Wallheiser			X				NA	NA

Sampling Equipment		
☐ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	Filter
Equipment ID		

Collection Method	
☐ Wading	☐ Via Boat
☐ From Shore	☐ Canoe/Kayak
☐ Other (note below)	☐ Electric Motor
Skiff	☒ Gasoline Motor

Water Level: Dry / Low / <u>Normal</u> / High / Flooded	Matrix: Fresh / <u>Marine</u> / DI
Meter ID# <u>Biology #2</u>	Photos: Yes / <u>No</u>
	Tide Falling: Yes / <u>No</u> / NA

Field Sample

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	10:45	0.3	4.0	7.47	91.6	7.74	2.1	N/A	4,100	25.17
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	5259020	9/16/16	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP		☐ Ice ☐ HNO2			☐ <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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR		☐ Ice			
Periphyton	☐ ALGAE-ID		☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH		☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA-5259020 EXP: 09/16/16 Warning! See MSDS

Place Sticker(s) Here (if available)

QA/QC Sample Information

Duplicate

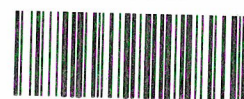
Time Zone: EST CEN		Sample Depth (m): _____		Field ID: _____	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄			☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃			☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
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			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Blank

Time Zone: EST CEN		Time: _____		Field ID: _____		Location: <u>G1W40057</u>	
☒ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank				Equipment ID: _____			
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 ☒ H ₂ SO ₄	<u>5259020</u>	<u>9/16/16</u>	☒ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice			☐ < 2		
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
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					
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other					

Notes:

unable to get total depth or secchi due to strong current.



G1W40057 01 May 2016
St. Marks River at Channel Marker 60

Signature: [Signature]

Date: 6/1/16

Field Parameters Entered into LIMS: CM 6-6-2016
(Initials/Date)

Field Parameters QC in LIMS: _____
(Initials/Date)

Date Migrated to STORET: _____
(Initials/Date)

Field Sheets Scanned/Saved: CM 6-6-2016
(Initials/Date)

Form FD9000-8 CALIBRATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

revised 06-14-11

Project/Site: SMP St Marks, Wakulla Meriagh Date: 6/1/2016

Temperature	DEP SOP FT 1400	Initials	Date	Time	Compare field readings to temperature calibration verification range (see cover or Temp C-V logbook).	Acceptance Criteria: within range			Data qualified?
						Low Field Temp °C	High Field Temp °C	Yes or No	
Post-trip verification								Y N	J

Dissolved Oxygen	DEP SOP FT 1500	Initials	Date	Time	Probe Charge	Probe Gain	Temp °C	% DO	Acceptance Criteria: +/-0.3 mg/l			Data qualified?
									Reading mg/L	mg/L (from chart)	Pass or Fail	
CAL ICV CCV		BR	6/1/16	8:21	41.0		22.61	100.	8.64	8.64	P F	J
CAL ICV CCV		BR	6/1/16	8:25	41.0		22.44	100.2	8.69	8.67	P F	
CAL ICV CCV		BR	6/1/16	8:05	42.0		27.21	101.4	8.06	7.94	P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	

Specific Conductance	DEP SOP FT 1200	Initials	Date	Time	Standard µmhos/cm	Exp. Date	Lot #	Bottle #	Acceptance Criteria: +/- 5 %			Data qualified?
									Cell Constant	Reading µmhos/cm	Pass or Fail	
CAL ICV CCV		BR	6/1/16	8:28	1,000	4/2017	160330D	1		1000	P F	J
CAL ICV CCV		BR	6/1/16	8:29	1,000	4/2017	160330D	1		1,000	P F	
CAL ICV CCV		BR	6/1/16	4:12	50,000	4/2017	160330E	1		49,600	P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	

pH	DEP SOP FT 1100	Initials	Date	Time	Standard SU	Exp. Date	Lot #	Bottle #	Acceptance Criteria: +/- 0.2 SU			Data qualified?
									Slope	Reading SU	Pass or Fail	
CAL ICV CCV		BR	6/1/16	8:31	4.00	4/2017	160330A	1	158.6	4.00	P F	J
CAL ICV CCV		BR	6/1/16	8:34	7.00	10/2017	160330B	1	-19.4	6.99	P F	
CAL ICV CCV		BR	6/1/16	8:35	7.00	10/2017	160330B	1	-19.1	6.99	P F	
CAL ICV CCV		BR	6/1/16	4:15	10.00	10/2017	160330C	1	-186.5	9.80	P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	
CAL ICV CCV											P F	

Maintenance is recorded in the Field Meter Maintenance Logbook.

Notes:

Perform only in Calibrate Mode:
Perform only in Run Mode:
Perform only in Run Mode:

CAL - Calibrate -
ICV - Initial Calibration Verification
CCV - Continuing Calibration Verification

Request Number: RQ-2016-05-30-45

East River, St. Marks River, Moriah Creek and Wakulla River

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 4

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Field Report Prepared By: Ben Ralys

Collected By: Ben Ralys, Justin Wallheiser

Sampling Agency: FDEP

Location St. Marks River at channel Marker 60		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/16 Time 10:45		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh Salt		Diss. Oxygen 2.47		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A	
STORET # G1WA0055		Temp (C) 25.17		pH 7.77		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 4100	
Latitude 30.1447		☒ dd ☐ dms		Longitude -84.2088		☒ dd ☐ dms		Salinity (ppt) 2.1		Comments	
Location St. Marks River at channel Marker 22		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/16 Time 11:11		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh Salt		Diss. Oxygen 6.63		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A	
STORET # G1WA0008		Temp (C) 28.83		pH 7.93		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 33000	
Latitude 30.0929		☒ dd ☐ dms		Longitude -84.1939		☒ dd ☐ dms		Salinity (ppt) 20.70		Comments	
Location East River Downstream of Bossy Bayou		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/16 Time 12:00		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 6.95		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A	
STORET # G1WA0055 G1WA0056		Temp (C) 29.11		pH 7.91		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 32,700	
Latitude 30.0972		☒ dd ☐ dms		Longitude -84.1752		☒ dd ☐ dms		Salinity (ppt) 20.3		Comments	
Location Mouth of East River		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/16 Time 11:43		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Salt		Diss. Oxygen 7.32		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		A	
STORET # G1WA0011		Temp (C) 29.02		pH 8.00		Sample Depth 0.3		☐ ft ☒ m		Sp. Conductance (umho/cm) 35,336	
Latitude 30.0893		☒ dd ☐ dms		Longitude -84.1774		☒ dd ☐ dms		Salinity (ppt)		Comments 24.26	

Relinquished By: Justin Wallheiser	Date/Time 6/1/2016 15:43	Shipping Method Drop off	Number of Coolers Shipped:	Received By: Frank Runk	Date/Time 6-1-16 3:48
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Request Number: RQ-2016-05-30-45

East River, St. Marks River, Moriah Creek and Wakulla River

Florida Department of Environmental Protection Central Laboratory Submittal Form

Page 1 of 4

last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Field Report Prepared By: Ben Ralys

Collected By: Ben Ralys, Justin Wallhieser

Sampling Agency: FDEP

Location Moriah Creek 100meters upstream of Newport Rd.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/2016 Time 14:45		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s) (See pg 2)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.29		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		B	
STORET # GIWA0057		Temp (C) 24.82		pH 7.38		Sample Depth 0.2		☐ ft ☒ m		Sp. Conductance (umho/cm) 443	
Latitude 30.1857		☒ dd ☐ dms		Longitude -84.1929		☒ dd ☐ dms		Salinity (ppt) 0.21		Comments	
Location Moriah Creek 100meters upstream of Newport Rd.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/2016 Time 14:55		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID Field blank		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen NA		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		C	
STORET # GIWA0057B		Temp (C) NA		pH NA		Sample Depth NA		☐ ft ☒ m		Sp. Conductance (umho/cm) NA	
Latitude 30.1857		☒ dd ☐ dms		Longitude -84.1929		☒ dd ☐ dms		Salinity (ppt) NA		Comments This is a Field Blank	
Location Moriah Creek 100meters upstream of Newport Rd.		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/2016 Time 14:45		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID Duplicate		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.29		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		D	
STORET # GIWA0057D		Temp (C) 24.82		pH 7.38		Sample Depth 0.2		☐ ft ☒ m		Sp. Conductance (umho/cm) 443	
Latitude 30.1857		☒ dd ☐ dms		Longitude -84.1929		☒ dd ☐ dms		Salinity (ppt) 0.21		Comments This is a Duplicate	
Location Moriah Creek at US 98		☐ Comp ☒ Grab		Collection (comp begin or grab) Date 6/1/16 Time 14:45		☒ Eastern ☐ Central		Composite end Date — Time —		Bottle Group(s)	
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 2.29		☒ mg/L ☐ % sat		Total Res. Chlorine (mg/L) —		B	
STORET # GIWA0027		Temp (C) 24.82		pH 7.38		Sample Depth 0.2		☐ ft ☒ m		Sp. Conductance (umho/cm) 443	
Latitude 30.1961		☒ dd ☐ dms		Longitude -84.1965		☒ dd ☐ dms		Salinity (ppt)		Comments Water levels not ambient, intermittent pools	

Relinquished By: Justin Wallhieser	Date/Time 6/1/2016 15:43	Shipping Method Drop off	Number of Coolers Shipped:	Received By: Frank Rush	Date/Time 6-1-16 3:48
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Florida Department of Environmental Protection

Central Laboratory Submittal Form

East River, St. Marks River, Moriah Creek and Wakulla River

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Field Report Prepared By: Ben Ralys

Collected By: Ben Ralys, Justin Wallheiser

Sampling Agency: FDEP

Location Wakulla River Below US98		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/1/16 Time 10:10		☒ Eastern ☐ Central	Composite end Date — Time —		Bottle Group(s) (See pg 2) B
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 5.67	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		
STORET # GIWA0028		Temp (C) 21.78	pH 7.61	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 344		
Latitude 30.17607	☒ dd ☐ dms	Longitude -84.2429	☒ dd ☐ dms	Salinity (ppt) 0.16	Comments			
Location Moriah Creek at St. Marks River		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 6/1/16 Time 13:10		☒ Eastern ☐ Central	Composite end Date — Time —		Bottle Group(s) B
Field ID		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 8.71	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L) —		
STORET # GIWA0037		Temp (C) 23.81	pH 7.99	Sample Depth 0.3	☐ ft ☒ m	Sp. Conductance (umho/cm) 288		
Latitude 30.18194	☒ dd ☐ dms	Longitude -84.18967	☒ dd ☐ dms	Salinity (ppt) 0.14	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)		
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)		
STORET #		Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments			

Relinquished By: Justin Wallheiser	Date/Time 6/1/2016 15:43	Shipping Method Drop off	Number of Coolers Shipped:	Received By: Frank Runk	Date/Time 6-1-16 3:48
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Date of Request: 13-MAY-2016
 Created By: RALYS_B On: 13-MAY-2016
 Modified By: WATTS_J On: 26-MAY-2016
 Customer: WQAP
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: East River, St. Marks River, Moriah Creek and Wakulla River

Send Coolers To:

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

Program Module Number:

Priority: 3
 Event Status: A
 Criminal Investigation: NO
 Chemistry Request Reviewed By: WATTS_J On: 26-MAY-2016
 Biology Request Reviewed By: WATTS_J On: 26-MAY-2016
 Sampling Kit Required: NO Ship on:
 Sampling Kit Shipped: YES On: 21-MAY-2016
 Sampling Kit Packed By: KITCHEN_S
 Preservatives Needed: NO
 Date to Receive Samples: 01-JUN-2016
 Received By:

Send Final Report To:

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

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

Comments: Bottle Group A: Saltwater chemistry suite
 Bottle Group B: Freshwater chemistry suite
 Bottle Group C: Field Blank
 Bottle Group D: 1 Duplicate for freshwater chemistry

3 - liters of DI water for blank

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-F	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Fluoride		
W-TSS	Template: DEFAULT	(SM 2540 D-97) Total Suspended Solids in aqueous matrices
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, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 4	Preserved With: ICE And H ₂ SO ₄
W-NH ₃	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
Ammonia-N		
W-NO ₂ NO ₃	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
NO ₂ NO ₃ -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

Bottle Group A (Water) With 4 Samples:

Bottle Type: P-500ML	Number of Bottles: 4	Preserved With: ICE And H2SO4
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: ICE-FLTR
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 (Water) With 3 Samples:

Bottle Type: P-1L	Number of Bottles: 3	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
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-SO4-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
TSS		
Bottle Type: BP-1L	Number of Bottles: 3	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 3	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: 3	Preserved With: ICE-FLTR
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 C (Water) With 1 Samples:

Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 1	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

Bottle Group C (Water) With 1 Samples:

Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
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: 1	Preserved With: ICE-FLTR
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 Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
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-SO4-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
TSS		

Bottle Group D (Water) With 1 Samples:

Bottle Type: P-1L	Number of Bottles: 1	Preserved With: ICE
ALKALINITY	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
Total Alkalinity		
TURBIDITY	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
Turbidity		
W-CL-IC	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
Chloride		
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-SO4-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
TSS		
Bottle Type: BP-1L	Number of Bottles: 1	Preserved With: ICE
CHLSUITE-W	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry
Chlorophyll/Phaeophytin Ratio		
Chlorophyll-a, Corrected		
Chlorophyll-a, Uncorrected		
Phaeophytin-a		
Bottle Type: P-500ML	Number of Bottles: 1	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

Bottle Group D (Water) With 1 Samples:

Bottle Type: P-500ML	Number of Bottles: 1	Preserved With: ICE And H2SO4
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: 1	Preserved With: ICE-FLTR
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		

Cooler Packing Worksheet for Request: RQ-2016-05-30-45
East River, St. Marks River, Moriah Creek and Wakulla River

Ship Cooler On: 5/16/2016
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
Bottle Group C: Field Blank
Bottle Group D: 1 Duplicate for freshwater chemistry

3 - liters of DI water for blank

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 # 1168614

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 # 00064947

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: 4 Preservation: ICE-FLTR

Lot # 00064632

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: 3

Container ID: P-1L

Qty: 3 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
Sulfate in aqueous matrices
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 3 Preservation: ICE

Lot # 1168614

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 3 Preservation: ICE And H2SO4

Lot # 00064947

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: ICE-FLTR

Lot # 00064632

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 # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-NO2
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)
Nitrite in aqueous matrices as mg N/L
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 # 1168614

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 # 00064947

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 # 00064632

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Bottle Group: D

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-NO2
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)
Nitrite in aqueous matrices as mg N/L
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 # 1168614

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 # 00064947

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 # 00064632

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

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

Cooler Packed By: SK

Date: 5-21-16

DEP Cooler ID #(s): 3 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 _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-05-30-45