



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE 1 OF 13

Data Qualified?
Yes / No

February 2017

STORET Station Name: Wakulla At CR 365 Bridge

Date: 03/08/2017

(mm/dd/yyyy)

STORET Station ID: 34879

WBID: 1006

Latitude: 30.21373

(Decimal Degrees)

County: Wakulla RQ - RQ-2017-02-13-63

ORG ID: 21FLWQA

Longitude: -84.26163

(Decimal Degrees)

Receiving Body of Water: St. Marks, Gulf of Mex.

Field ID: 34879-03082017

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Curtis Musson				X	X				☒ Sample Container	☐ Van Dorn	☐ Pole	
Ben Ralys				X	X				☐ Carboy	☒ Syringe		
Sarah Panek									☐ 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				Matrix: Fresh / Marine / DI							
Meter ID# Biology #2				Photos: Yes / No				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	14:06	0.3	1.1	7.12	80.2	7.90	0.15	1003	318	21.2	
CEN											

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

SBIO ID Numbers: SBIO-ID: 77385 RPS-ID: 8586 Macrophyte-ID: 10363 LIMS#: 1878633

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	SA 6302030	10/28/2017	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA 6218060	08/05/2017	☒ <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-CH-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 ☐ Entero ☐ PCR-FILTER	☐ Ice			
Tracers	☐ W-LCMS-DU (1/4 vial fill) ☐ W-UHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-LCMS-DU (1/4 vial fill) ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Contains
1:1
Nitric Acid
NA-6218060
EXP: 08/05/17
Warning!
See SDS

Contains
1:1
Sulfuric Acid
SA-6302030
EXP: 10/28/17
Warning!
See SDS

Notes:
Kit C
SCI
RPS
LVSWakulla River
at CR365

34879

Field ID →

Wakulla River
at CR 365

March 08, 2017



34879-03082017

Signature:

Date:

3/8/2017

Field Parameters Entered into LIMS:

CM 3/9/17

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY: Florida Department of Environmental Protection		STORET STATION NUMBER: 34879	DATE (MM/DD/YY): 03/08/2017	RECEIVING BODY OF WATER: St. Marks R., Gulf of Mexico
REMARKS: Wakulla BMAP	COUNTY: Wakulla	LOCATION: Wakulla at CR 365 Bridge		FIELD ID/NAME:

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Snag Leaf Aquatic Roots Rock Vegetation	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>8</u>	20 19 18 17 16	15 14 13 12 11	10 9 <u>8</u> 7 6	5 4 3 2 1
Substrate Availability <u>20</u> %	Major productive habitat present at site (>30% 27.2% 25.8% 24.4% 26.6%) 20 19 18 17 16	Major productive habitat, by aerial extent (21.6% 20.2% 18.8% 17.4% 16%) 15 14 13 12 11	6% to 15% major productive habitat (15% 13% 11% 9% 6%) 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u> <u>0.6</u> m/s	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 <u>20</u> 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>12</u> Primary Score <u>60</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components Artificial Channelization <u>20</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 3 2 1
Bank Stability Right Bank <u>10</u> Left Bank <u>10</u> If Banks are PipeClay, BedRock or Concrete at Bank full: Optimal	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. (+,+,+) 10 9	Only meets 2 of the 3 requirements for optimal bank stability. (+,+,-) 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. (+,-,-) 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. (-,-,-) 3 2 1
Riparian Buffer Zone Width Right Bank <u>10</u> Left Bank <u>4</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6 (18m 15m 12m)	Width of vegetation 6 to 12 m. human activities close to system 5 <u>4</u> (9m)	Less than 6 m of buffer zone due to intensive human activities 3 2 1 (6-5m) (4-3m) (<2m)
Riparian Zone Vegetation Quality Right Bank <u>10</u> Left Bank <u>9</u> <u>10</u> <u>5P</u> Secondary Score <u>cn 73 79</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

cn 73 139 **TOTAL SCORE**

Date: <u>3/8/17</u>	Analyst: <u>Curtis Mason</u>	Signature: <u>Curtis Mason</u>
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SBFO 77385

1.56/m

The image shows a blank graph paper template. It features a grid of 10 major horizontal rows and 10 major vertical columns. The horizontal axis is labeled 'Upstream' at the top center. The vertical axis is labeled 'Left Bank' on the left side and 'Right Bank' on the right side. The vertical axis has numerical labels from 0 to 100 in increments of 10. The grid is composed of 10 major horizontal lines and 10 major vertical lines, with 100 minor grid lines in total (10 major lines x 10 minor lines per major line).

Sampler: Curtis Mussen, Ben Ralys

 $2m^2 = 16 \text{ Sweeps}$ 62-160.800, F.A.C. Revision Date: March 1, 2014

Meter Mark	Depth (m)	Width (m)	Velocity Measurement (Sec)
Avg.			

$$\left(\frac{100}{12 * \underline{\hspace{1cm}} W} \right) * 2 =$$

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID 77385 ORG ID 21FLWAQ LATITUDE 30.21373
COUNTY Wakulla STORET # 34879 LONGITUDE -84.26163
DATE 03/08/2017 TIME 14:06 SAMPLING AGENCY FDEP
SITE NAME Wakulla At CR 365 Bridge
FIELD ID/NAME 34879-03082017 RECEIVING BODY OF WATER St. Marks River, Gulf Of Mexico

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):								Landscape Development Intensity Index (LDI)
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)	
78		2	0.9	17	0.7	0.9	0.5	1.17
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								
Width of Riparian Vegetation (m) on Each Buffer Side				Hydrologic Modification Score (per FT 3101)				
Left Bank: <u>6m</u> Right Bank: <u>218m</u>				<u>3-4</u>				
High Water Mark: <u>0.1</u> + <u>1.1</u> = <u>1.2</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
Artificially ☒ No ☐ Mostly recovered, more sinuous				Canopy Cover % ☒ Open ☐ Lightly Shaded (11-45%)				
Channelized: ☐ Some recovery ☐ Recent, severe				☐ Heavily Shaded ☐ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils ☐ Absent ☐ Slight ☐ Moderate ☐ Profuse		Sediment Odors ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☒ Anaerobic ☐ Other (Specify):		Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐	
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon % Coverage Woody Debris (Snags) <u><1</u> Undercut Banks / Roots <u>7</u> Leaf Packs or Mat <u>7</u> Aquatic Vegetation <u>730</u> Rock or Shell Rubble <u>6</u> Sand <u>7</u> Mud / Muck / Silt <u>6</u> Other <u>7</u> Other <u>7</u>		WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>21.27</u> <u>7.90</u> <u>7.12</u> <u>80.2</u> <u>318</u> <u>0.3</u> Mid: <u>7</u> Bottom: <u>7</u> Meter ID: <u>Bio #2</u> Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>on Field Sheet</u> Exp: <u>7</u> Algae Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>ICE</u> Exp: <u>H2O</u> Water Surface Oils Normal ☐ Sheen ☐ Globs ☐ Slick ☐ Other ☐ Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐			
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☐ ☒ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☐ ☒ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐		System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐ AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.			
SAMPLING TEAM <u>Curtis Mosser, Ben Ralls, Sarah Panels</u>		SIGNATURE: <u>Curtis Mosser</u>		DATE: <u>3/8/17</u>	

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Wakulla At CR 365 Bridge

County: Wakulla

Date: 03/08/2017

Investigators: Curtis Musson, Ben Ralys

Sarah P. Ralys

STORET Station Number:
34879

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
73=3 0 n=7	1	N			73=2 60 n=5	1	6		
	2	N				2	N		
	3	N				3	N		
	4	4				4	X		
	5	6		0		5	X		0
	6	N				6	X		
	7	X				7	5		
	8	X				8	N		
	9	5				9	X		
73=2 10 n=6	1	N			73=3 70 n=6	1	6		
	2	N				2	N		
	3	N				3	N		
	4	X				4	X		
	5	X		0		5	X		0
	6	X				6	X		
	7	6				7	6		
	8	6				8	6		
	9	N				9	N		
73=2 20 n=5	1	N			73=3 80 n=6	1	5		
	2	N				2	5		
	3	N				3	N		
	4	X				4	X		
	5	X		0		5	X		0
	6	X				6	X		
	7	6				7	N		
	8	6				8	N		
	9	X				9	5		
73=2 30 n=6	1	N			73=3 90 n=7	1	5		
	2	N				2	N		
	3	4				3	N		
	4	X				4	4		
	5	X		0		5	X		0
	6	X				6	X		
	7	6				7	6		
	8	N				8	N		
	9	N				9	N		
73=4 40 n=6	1	6			73=4 100 n=6	1	6		
	2	N				2	4		
	3	4				3	N		
	4	X				4	N		
	5	X		0		5	X		0
	6	X				6	X		
	7	6				7	6		
	8	N				8	6		
	9	5				9	X		
73=4 50 n=6	1	6			Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densimeter quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.				
	2	4							
	3	N							
	4	X							
	5	X		0					
	6	X							
	7	6							
	8	4							
	9	N							

Secchi depth 10B
Estimated? NO

points ranked 4-6 32
total points assessed 66
% points ranked 4-6 48.8

Check accompanying data collected at same site/date.

Algal mat sample X
Linear Veg Survey X
Habitat Assessment X
SCI/Biorecon X
Water sample X

RQ-2017-02-13-63

Algal Thickness Rank

N	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

RPS 8586

SBID 77385

Macrophyte QC Report

STORET: 34879

Visit ID: 77385

Macrophyte ID: 10363

LIMS ID: 1878633

Sample Date: 3/8/2017

Collector Name: Musson, Curtis

Identifier Name: Musson, Curtis

Macrophyte Sample Comments:

Taxa Name:	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
<i>Cicuta maculata</i>	P	P	P	P	P	P	P	P	P	P
<i>Hydrilla verticillata</i>						P	P	P	P	P
<i>Hymenocallis</i>				P	P	P	P	P	P	P
<i>Lemna</i>		P					P			
<i>Mikania scandens</i>	P	P	P	P	P	P			P	P
<i>Myriophyllum heterophyllum</i>	P	P	P	P	P	P	P			
<i>Najas guadalupensis</i>	P						P	P	P	P
<i>Polygonum glabrum</i>	P		P	P				P	P	P
<i>Pontederia cordata</i>	P	P	P	P	P	P	P	P	P	P
<i>Rhynchospora inundata</i>				P	P	P	P	P	P	P
<i>Rumex verticillatus</i>		P						P		P
<i>Sagittaria kurziana</i>	P	P	P	P	P	P	P	P	P	P
<i>Sagittaria lancifolia</i>			P		P	P	P	P	P	P
<i>Scirpus californicus</i>	P									P
<i>Typha</i>	P	P	P	P	P			P	P	
<i>Vallisneria americana</i>	D	D	D	D	D	D	D	D	D	D
<i>Woodwardia virginica</i>								P	P	
<i>Zizania aquatica</i>				P				P		

CA
3/9/17

This data has not been fully approved at this time.

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 **Biology 2**

RQ- **2017-02-13-63**

Project **BMAP**

- 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.	Curtis Musson	3/8/17	7:02	21.85	8.761	8.77	100.0	12	—	P	LAB
ICV	Curtis Musson	3/8/17	7:04	21.85	8.761	8.77	100.0	12	—	P	LAB
CCV	Curtis Musson	3/8/17	15:20	23.0	8.578	8.68	106.1	52	—	P	LAB
CCV											

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 μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	3/8/17	7:05	161111 ED	5/17	1000	1000	P	LAB
ICV	Curtis Musson	3/8/17	7:08	161111 D	11/17	1000	1000	P	LAB
CCV	Curtis Musson	3/8/17	15:22	161111 E	5/17	100	102	P	LAB
CCV									

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.	Curtis Musson	3/8/17	7:09	161111 B	5/18	7.0	7.00	-14	P	LAB
Calibr.	Curtis Musson	3/8/17	7:11	161111 A	11/17	4.01	4.01	165	P	LAB
Calibr.	Curtis Musson	3/8/17	7:12	161111 C	5/18	10.01	9.96	-77	P	LAB
ICV	Curtis Musson	3/8/17	7:13	161111 C	5/18	10.01	9.95	-76	P	LAB
CCV	Curtis Musson	3/8/17	15:24	161111 B	5/18	7.0	7.14	-16	P	LAB
CCV										

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 ± 0.05 m, whichever is greater

Request Number: RQ-2017-02-13-63

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Page 1 of 2

Wakulla BMAP

Customer: WQ-ASSESS

Project ID: BMAP

Requester: Curtis Musson

Sarah Pamek

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Collected By: Curtis Musson, Ben Ralls

Location

Wakulla at
Boat Tram

STORET ↓



44059

Field ID →



44059-03082017

ST Wakulla at Boat Tram

March 08, 2017

☐ Comp
☒ Grab

Collection (comp begin or grab)

Date 3/8/17

Time 10:00



Collection (comp begin or grab)

Date

Time

Matrix (Salt, Fresh)

FRESH

Diss. Oxygen
(mg/L)

3.39

Temp

(C)

20.75

pH

7.63

Sample Depts

(m)

0.3

Sp. Conductance

(umho/cm)

319

Salinity

(ppt)

0.15

Comments

Wakulla BMAP

Latitude (Decimal Degrees)

30.23458

Longitude (Decimal Degrees)

-84.29447

Bottle
Group(s)

A, B

Location

Wakulla River
at CR365

STORET ↓



34879

Field ID →



34879-03082017

S Wakulla River
at CR 365

March 08, 2017

☐ Comp
☒ Grab

Collection (comp begin or grab)

Date 3-8-17

Time 14:06



Collection (comp begin or grab)

Date

Time

Matrix (Salt, Fresh)

Fresh

Diss. Oxygen
(mg/L)

7.12

Temp

(C)

21.27

pH

7.90

Sample Depts

(m)

0.3

Sp. Conductance

(umho/cm)

318

Salinity

(ppt)

0.15

Comments

Wakulla BMAP

Latitude (Decimal Degrees)

30.21373

Longitude (Decimal Degrees)

-84.26163

Bottle
Group(s)

A, B

Location

Field ID

STORET #

☐ Comp
☐ Grab

Collection (comp begin or grab)

Date

Time

Eastern
Central

Collection (comp begin or grab)

Date

Time

Matrix (Salt, Fresh)

Diss. Oxygen
(mg/L)

Temp

(C)

pH

Sample Depts

(m)

Sp. Conductance

(umho/cm)

Salinity

(ppt)

Comments

Latitude (Decimal Degrees)

Longitude (Decimal Degrees)

Bottle
Group(s)

Relinquished By:

Curtis Musson

Date/Time

3-8-17 / 15:02

Number of Coolers

2

Received By:

AAR

Date/Time

03-08-17 / 15:02

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 2	Preservative:	ICE-FLTR	Enter Number of Bottles Sent to Lab	2
	W-PO4-F						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALGAL_ID						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	4
	MI-FW-QLDC						

Cooler Packing Worksheet for Request: RQ-2017-02-13-63

Wakulla BMAP

Ship Cooler On: 2/14/2017

Customer/Project: WQ-ASSESS/BMAP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453
Division Of Water Facilities, FL DEP
2600 Blair Stone Rd.
Tallahassee, FL 32399-2400
Attn: Curtis Musson

Comments:

Group A: Freshwater Kit With Metals

Group B: SCI, Algae_ID

2 - cases of sulfuric acid

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00066873

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: 2 Preservation: ICE

Lot # 11884607

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00066885

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: 2 Preservation: ICE And H2SO4

Lot # 00066045

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: 2 Preservation: ICE-FLTR

Lot # 00064520

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: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 03715003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Container ID: PJ-2L

Qty: 4 Preservation: Formalin

Lot # L185930

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Cooler Packed By: JD

Date: 2/13/17

DEP Cooler ID #(s): 2

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 Sulfuric Acid Exp. 10/2017 Lot # SA 6302030

ID Sulfuric Acid Exp. 10/2017 Lot # SA 6302030

ID _____ Lot # _____

ID _____ Lot # _____

ID _____ Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-02-13-63