



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?
Yes / No

Location/STORET Station Name: Wakulla At CR 365 Bridge

Date: 7/26/17

(mm/dd/yyyy)

STORET # 34879

WBID: 1006

Latitude: 30.21373

County: Wakulla

RQ - 2017-07-24-19

ORG ID: 21FLWQA

Longitude: -84.26163

(Decimal Degrees)

Receiving Body of Water: St. Marks River

Field ID: 34879 07262017

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson									
Ben Ralys									
Robert Wiwi									

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						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	11:50	0.3	2.8	4.80	54.9	5.87	0.15	1.9	316	21.87	
CEN	11:55	1.3		5.06	58.4	6.78	0.15	2.0	316	21.95	

Biological Samples Collected:		None	☒ RPS	☒ LVS	☒ ALGAE	☒ LVI	Other
SBIO ID Numbers:		SBIO-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:		

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 ☒ HNO3	6218060	8/5/17	☒ <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 ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid SA-6209120 EXP: 07/27/17 Warning! See SDS

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

Notes: Kit C SCI RPS/LVS cm		STORET ↓ Wakulla River at CR365 34879		Field ID → Wakulla River at CR 365 July 26, 2017 34879 07262017	
Signature: [Signature]				Date: 7/26/17	

Field Parameters Entered into LIMS: 7-27-17

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

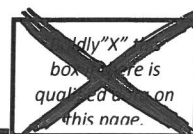
(Initials/Date)

Field Sheets Scanned/Saved: 7/26/17

(Initials/Date)

(Initials/Date)

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)



Meter Biology #2

RQ- 2017-07-24-19

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 03/06/2017

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	7/26/17	1652	23.24	8.546	8.54	100.0	39	-	P	Lab
ICV	Curtis Musson	7/26/17	1653	23.20	8.546	8.54	99.9	39	-	P	Lab
CCV	Curtis Musson Robert Wini	7/26/17	13:42	26.91	7.983	7.74	97.0	38.0	-	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	7/26/17	1635	170310D	03/2018	1000	1000	P	Lab
ICV	Curtis Musson	7/26/17	1637	170310D	03/2018	1000	1000	P	Lab
CCV	Curtis Musson Robert Wini	7/26/17	13:47	170310D	6/18	100	105	P	Lab
CCV				170614D					

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	7/26/17	1656	170310B	09/2018	7.0	6.99	-15	P	Lab
Calibr.	Curtis Musson	7/26/17	1658	170310A	03/2018	4.01	4.01	165	P	Lab
Calibr.	Curtis Musson	7/26/17	16:17	161111C	05/2018	10.01	9.95	-165	P	Lab
ICV	Curtis Musson	7/26/17	1703	161111C	05/2018	10.01	9.92	-164	P	Lab
CCV	Curtis Musson Robert Wini	7/26/17	13:46	170310A	3/18	4.01	3.55	187.5	F	Lab
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU; mV pH7 Range 0 $\pm$ 50;

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

mV pH 10 Range -180 $\pm$ 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: 2017-07-24-19

Wakulla River
Customer: WQ-ASSESS
Project ID: BMAP

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

Requester: Curtis Musson

Collected By: *Carl's Musson Robert W. Ben Palis*

Field Report Prepared By: _____
Sampling Agency: FDEP

Wakulla at Boat Tram
STORET ↓
44059

Field ID →
Wakulla at Boat Tram
July 26, 2017
44059 07262017

Wakulla River at CR365
STORET ↓
34879

Field ID →
Wakulla River at CR365
July 26, 2017
34879 07262017

☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/26/17 Time 9:28	☒ Eastern ☐ Central	Collection (comp begin or grab) Date _____ Time _____	Bottle Group(s)
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Matrix (Salt, Fresh) Fresh	Dis. Oxygen (mg/L) 2.77	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 312	A, B
Temp (C) 21.19	pH 7.11			
Salinity (ppt) 0.15	Comments			

Latitude (Decimal Degrees) 30.23458	Longitude (Decimal Degrees) -84.29447	Bottle Group(s)
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☐ Comp ☒ Grab	Collection (comp begin or grab) Date 7/26/17 Time 11:50	☒ Eastern ☐ Central	Collection (comp begin or grab) Date _____ Time _____	Bottle Group(s)
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Matrix (Salt, Fresh) Fresh	Dis. Oxygen (mg/L) 4.80	Sample Depts (m) 0.3	Sp. Conductance (umho/cm) 316	A, B
Temp (C) 21.87	pH 5.87			
Salinity (ppt) 0.15	Comments			

Latitude (Decimal Degrees) 30.21373	Longitude (Decimal Degrees) -84.26163	Bottle Group(s)
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☐ Comp ☐ Grab	Collection (comp begin or grab) Date _____ Time _____	☐ Eastern ☐ Central	Collection (comp begin or grab) Date _____ Time _____	Bottle Group(s)
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Matrix (Salt, Fresh)	Dis. Oxygen (mg/L)	Sample Depts (m)	Sp. Conductance (umho/cm)	
Temp (C)	pH			
Salinity (ppt)	Comments			

Latitude (Decimal Degrees)	Longitude (Decimal Degrees)	Bottle Group(s)
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Relinquished By: <i>[Signature]</i>	Date/Time 7/26/17 13:25	Number of Coolers 1	Received By: <i>[Signature]</i>	Date/Time 7/26/17 13:25
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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-500ML	# 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	2 of 4
	MI-FW-QLDC						

10P250TS

Cooler Packing Worksheet for Request: RQ-2017-07-24-19

Wakulla BMAP

Ship Cooler On: 7/14/2017

Customer/Project: WAS-SECT/BMAP

Assigned To: REYNOLDS_T

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit With Metals

Group B: SCI, Algae_ID

Packing Notes

No FedEx labels needed

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-1L

Qty: 2 Preservation: ICE

Lot # 00068075

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 # 1199738

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Cooler Packed By: Tyler R. Number of Coolers: 2 Date: 07/14/17

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-2017-07-24-19