



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

Qualified Data

NO

Location/STORET Station Name: Merritt's Mill Pond 600 meters downstream of Jackson Blue Spring Date: 12/18/17

STORET # G2WA0007 WBID: 180A Latitude: 30.787

County: Jackson RQ - 2017-12-11-19 ORG ID: 21FLWQA Longitude: -85.1459

Receiving Body of Water: Chipola River Field ID: G2WA0007

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment		
Ben Ralys					X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole
Blake Spencer				X					☐ Carboy	☒ Syringe	
									☐ Dipper	☐ Other	
									Equipment ID		
									Collection Method		
									☐ Wading	☐ Canoe/Kayak	
									☐ From Shore	☐ Electric Motor	
									☐ Other	☒ Gasoline Motor	
Water Level: Dry / Low / <u>Normal</u> / Above Normal / Flooded									Meter ID# Biology #2		Matrix: <u>Fresh</u> / Marine / DI
Photos: Yes / <u>No</u> / Flow: No Flow / Intestinal / Flowing / NA									Tide: Rising / Falling / Slack / <u>NA</u>		Tide Times: High NA Low 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	9:41	0.3	1.3	7.18	80.0	7.47	0.13	VOI3	275	20.55	
CEN											

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	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP		☒ Ice ☒ H2SO4		SA7233030	8/21/18	☒ <2			
Metals	☒ W-ICPMS ☒ W-ICP		☒ Ice ☒ HNO3		7261120	9/18/18	☒ <2			
Filtered Nutrients	☒ W-P04-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		☐ 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		☐ Ice							
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R		☐ Other							

Contains 1:1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Contains
1:1
Nitric Acid
NA-7261120
EXP: 09/18/18
See SDS

Contains 1:1 Sulfuric Acid
DANGER
SULFURIC ACID <51%
May be corrosive to metals. Causes severe skin burns and eye damage. May damage aquatic life. Use only outdoors or in a well-ventilated area. Wear protective gloves, clothing, eye protection, and footwear. Do not get inside clothing before use. If you get it on you, immediately flush with plenty of water for at least 15 minutes. If you get it in your eyes, immediately flush with plenty of water for at least 15 minutes. If you get it on your skin, immediately flush with plenty of water for at least 15 minutes. If you get it on your clothes, remove the contaminated clothing and flush with plenty of water. If you get it on your hair, remove the contaminated hair and flush with plenty of water. If you get it on your face, immediately flush with plenty of water for at least 15 minutes. If you get it on your mouth, immediately flush with plenty of water for at least 15 minutes. If you get it on your nose, immediately flush with plenty of water for at least 15 minutes. If you get it on your ears, immediately flush with plenty of water for at least 15 minutes. If you get it on your hands, immediately flush with plenty of water for at least 15 minutes. If you get it on your feet, immediately flush with plenty of water for at least 15 minutes. If you get it on your arms, immediately flush with plenty of water for at least 15 minutes. If you get it on your legs, immediately flush with plenty of water for at least 15 minutes. If you get it on your torso, immediately flush with plenty of water for at least 15 minutes. If you get it on your back, immediately flush with plenty of water for at least 15 minutes. If you get it on your neck, immediately flush with plenty of water for at least 15 minutes. If you get it on your head, immediately flush with plenty of water for at least 15 minutes. If you get it on your face, immediately flush with plenty of water for at least 15 minutes. If you get it on your mouth, immediately flush with plenty of water for at least 15 minutes. If you get it on your nose, immediately flush with plenty of water for at least 15 minutes. If you get it on your ears, immediately flush with plenty of water for at least 15 minutes. If you get it on your hands, immediately flush with plenty of water for at least 15 minutes. If you get it on your feet, immediately flush with plenty of water for at least 15 minutes. If you get it on your arms, immediately flush with plenty of water for at least 15 minutes. If you get it on your legs, immediately flush with plenty of water for at least 15 minutes. If you get it on your torso, immediately flush with plenty of water for at least 15 minutes. If you get it on your back, immediately flush with plenty of water for at least 15 minutes. If you get it on your neck, immediately flush with plenty of water for at least 15 minutes. If you get it on your head, immediately flush with plenty of water for at least 15 minutes.

Notes: STORET / Field ID →
Kit-C Merritt's Mill Pond
600 meters downstream
of Jackson Blue Spring
DEC 18, 2017



Place Label Here
(If Available)

Signature: [Signature] Date: 12/18/17

Field Parameters Entered into LIMS: SA 1/3/18 Field Parameters QC in LIMS: CN 1-29-18
Date Migrated to STORET: [Signature] Field Sheets Scanned/Saved: CN 1-29-2018

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: BMAP

Requester: Curtis Musson

Collected By: Ben Ralys, Blake Spencer

Field Report Prepared By: Ben Ralys

Sampling Agency: FDEP

Location		STORET / Field ID →		Barcode		G2WA00007	
Field ID	Merritt's Mill Pond			600 meters downstream of Jackson Blue Spring			
STORET #	DEC 18, 2017						
Latitude	30.787	dd	Longitude	-85.1459	dms		
Location		STORET / Field ID →		Barcode		G2WA00008	
Field ID	Merritt's Mill Pond			500 meters; upstream of dam			
STORET #	DEC 18, 2017						
Latitude	30.755	dd	Longitude	-85.1881	dms		
Location		STORET / Field ID →		Barcode		G2WA00009	
Field ID	Merritt's Mill Pond			Mid Under Powerlines			
STORET #	DEC 18, 2017						
Latitude	30.7698	dd	Longitude	-85.1731	dms		
Location		STORET / Field ID →		Barcode		G2WA00010	
Field ID	Merritt's Mill Pond			600 meters downstream of Jackson Blue Spring			
STORET #	DEC 18, 2017						
Latitude	30.787	dd	Longitude	-85.1459	dms		

☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Eastern	Central	Composite end	Date	Time	Bottle Group(s)
		Matrix (type, e.g., Salt, Fresh, etc)	12/18/17	0941						
		Diss. Oxygen								
		pH								
		Temp (C)	20.55							
		Salinity (ppt)	0.13							
		Comments								
☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Eastern	Central	Composite end	Date	Time	Bottle Group(s)
		Matrix (type, e.g., Salt, Fresh, etc)	12/18/17	1015						
		Diss. Oxygen								
		pH								
		Temp (C)	14.96							
		Salinity (ppt)	0.13							
		Comments								
☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Eastern	Central	Composite end	Date	Time	Bottle Group(s)
		Matrix (type, e.g., Salt, Fresh, etc)	12/18/17	1030						
		Diss. Oxygen								
		pH								
		Temp (C)	17.03							
		Salinity (ppt)	0.13							
		Comments								
☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Eastern	Central	Composite end	Date	Time	Bottle Group(s)
		Matrix (type, e.g., Salt, Fresh, etc)	12/18/17	1030						
		Diss. Oxygen								
		pH								
		Temp (C)	7.90							
		Salinity (ppt)	0.13							
		Comments								
☐ Comp	☒ Grab	Collection (comp begin or grab)	Date	Time	Eastern	Central	Composite end	Date	Time	Bottle Group(s)
		Matrix (type, e.g., Salt, Fresh, etc)	12/18/17	1030						
		Diss. Oxygen								
		pH								
		Temp (C)	7.90							
		Salinity (ppt)	0.13							
		Comments								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	12/18/17	hand delivered	1	Tyler R	12/18/17

Group: A	Bottle Type:	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	3
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	3
	W-PO4-F						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALGAL_ID						

Jackson Blue BMAP

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 name.

Meter ID: **Biology #2**

RQ: **2017-12-11-19**

Project: **S BMAP**

- 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.	Ben Ralys	12/18/17	7:31	20.02	9.092	9.09	100.0	72.7	—	P/F	L/F
ICV	Ben Ralys	12/18/17	7:33	20.02	9.092	9.08	99.9	73.7	—	P/F	L/F
CCV	Blake Spencer	12/19/17	13:42	23.00	8.528	8.34	92.5%	72.7		P/F	L/F
CCV										P/F	L/F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

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.	Ben Ralys	12/18/17	7:35	171005D	10/2018	1,000	1,000	P/F	L/F
ICV	Ben Ralys	12/18/17	7:36	171005D	10/2018	1,000	1,000	P/F	L/F
CCV	Blake Spencer	12/19/17	13:44	171005E	10/2018	100	101	P/F	L/F
CCV								P/F	L/F

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	12/18/17	07:41	170614B	12/2018	7.0	7.00	25.9	P/F	L/F
Calibr.	Ben Ralys	12/18/17	07:44	171005A	10/2018	4.0	4.00	190.9	P/F	L/F
Calibr.	Ben Ralys	12/18/17	07:49	171005C	04/2019	10.0	9.99	134.6	P/F	L/F
ICV	Ben Ralys	12/18/17	07:50	171005C	04/2019	10.0	10.00	135.2	P/F	L/F
CCV	Blake Spencer	12/19/17	14:47	171005C	04/2019	10.0	10.09	149.6	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 $+180 \pm 50$;

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						P/F	L/F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Cooler Packed By: Tyler P. Number of Coolers: 1 Date: 12/4/17

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-2017-12-11-19

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 00068654

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: 3 Preservation: ICE And H2SO4

Lot # 00068654

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: FILTER-ICE

Lot # 00068595

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: PT-50ML

Qty: 1 Preservation: ICE

Lot # 03775003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts