



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Merritt's Mill Pond 500 meters upstream of dam

Date: 09/11/2019
(mm/dd/yyyy)

WIN/ Field ID: G2WA0009

WBID: 180A

Latitude: 30.755

County: Jackson

ORG ID: 21FLWQA

(Decimal Degrees)

Longitude: -85.1881

(Decimal Degrees)

Receiving Body of Water: Chipola River

RQ: 2019-09-030

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Blake Spencer					X				
Curtis Musson						X	X	X	
Evelyn Becerra							X		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Secchi disk</u>		
Equipment ID		

Collection Method	
☐ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☒ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Meter ID# 18J104543
Matrix: Fresh / Marine / DI
Photos: Yes / No
Flow: No Flow / Intestinal / Flowing / NA
Tide: Rising/ Falling/ Slack/ NA
Tide Times: High N/A Low N/A

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (umhos/cm)	Temp. (C°)
EST	09:53	2.1	0.3	VOB	11.33	145.1	7.94	0.12	250.9	28.1
CEN	09:57		1.6		11.23	143.4	7.89	0.12	250.3	28.1

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	SA9010030	4/10/20	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA9099030	4/09/20	☒ <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-CHC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: Nutrients Metals

Signature: [Signature] Date: 9/11/19

WIN ID / FILED ID: G2WA0009

Location: Merritt's Mill Pond 500 meters upstream of dam

LIMS EVENT ID: WAS-SECT-2019-09-11-01 WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 9/12/19 QC Station ID, Field Parameters In LIMS DMT: ANNA 1017119

Scan/Save Field Sheets (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

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

Boldly "X" this box if there are qualified data on this page.

Meter ID: 18J104543

RQ: 2019-09-09-30

Project: MMP 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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	9/11/19	0720	21.6	761.9	8.81	8.84	101.0	—	1-095	P/F	L/F
ICV		1	0728	22.1	761.9	9.73	9.82	101.0	—	—	P/F	L/F
CCV	Blake Spencer	9/11/19	1608	24.6	759.7	8.32	8.67	104.1	—	—	P/F	L/F
CCV											P/F	L/F

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 (Pro DSS 0.75 to 1.50); 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.	Blake Spencer	9/11/19	0731	190619F	06/2020	1000	1000	P/F	L/F
ICV	Blake Spencer	9/11/19	0732	190619F	06/2020	1000	1000	P/F	L/F
CCV	Blake Spencer	9/11/19	1611	2908C81	08/2021	1025	99.9	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Blake Spencer	9/11/19	0735	190616B	12/2020	7.01	22.7	7.01	-36.9	P/F	L/F
Calibr.			0740	190618A	12/2020	4.00	23.0	4.00	137.6	P/F	L/F
Calibr.			0742	190618C	12/2020	10.02	23.0	10.02	-207.3	P/F	L/F
ICV			0744	190618C	12/2020	10.02	23.0	10.01	-207.3	P/F	L/F
CCV	Blake Spencer	9/11/19	1618	190618A	12/2020	4.01	26.1	4.17	129.6	P/F	L/F
CCV										P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50; mV pH 4 Range +180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 _____ (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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	Blake Spencer	9/11/19	0745	0.00	0.00	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:

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT
Project ID: BMAP

Requester: Curtis Musson
Collected By: CURTIS MUSSON

Field Report Prepared By: CURTIS MUSSON

Sampling Agency: FDEP

Location	WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Sample Depth	Sp. Conductance (umho/cm)	mg/L Total Res. Chlorine	Bottle Group(s)
Merritt's Mill Pond 500 meters upstream of dam	G2WA0009	Fresh	28.1	0.12	9:53	145.1	250.9	—	A
Location	WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Sample Depth	Sp. Conductance (umho/cm)	mg/L Total Res. Chlorine	Bottle Group(s)
Merritt's Mill Pond 600 meters downstream of Jackson Blue Sp	G2WA0007	Fresh	21.2	0.13	11:28	0.3	272.8	—	A
Location	WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Sample Depth	Sp. Conductance (umho/cm)	mg/L Total Res. Chlorine	Bottle Group(s)
Merritt's Mill Pond mid under powerlines	G2WA0008	Fresh	26.2	0.12	10:08	0.3	259.3	—	A
Location	WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Sample Depth	Sp. Conductance (umho/cm)	mg/L Total Res. Chlorine	Bottle Group(s)
Merritt's Mill Pond mid under powerlines	G2WA0008	B/Oleaginous	—	—	10:08	—	—	—	B
Location	WIN ID / FILED ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	Salinity (ppt)	Collection (comp begin or grab)	Sample Depth	Sp. Conductance (umho/cm)	mg/L Total Res. Chlorine	Bottle Group(s)

Relinquished By: CURTIS MUSSON	Date/Time: 9-11-19 3:52	Shipping Method: Drop off	Number of Coolers Shipped: 1	Received By: [Signature]	Date/Time: 9/11/19 18:22
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last revised Jan 25, 2018

FDEN

Location		WIN ID / FILED ID	Collection (comp begin or grab)		Eastern Central	Composite end Date	Time	Bottle Group(s)
Field ID			☒ Comp ☐ Grab	Date	9-11-14	11:44		
WIN/STORET #	Location SHANGRI LA SPRING Vent	G2WA0022	Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen	82.6	
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)	20.7	pH	7.84	
Location	☐ dd ☐ dms	Salinity (ppt)	0.14	Comments		Sample Depth	0.3	
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		
Location	☐ dd ☐ dms	Salinity (ppt)		Comments		Sample Depth		
Field ID		☐ Comp ☐ Grab	Collection (comp begin or grab)	Eastern Central	Composite end Date	Time	Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)			Diss. Oxygen			
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Temp (C)		pH		

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

Cooler Packing Worksheet for Request: RQ-2019-09-09-30

Merrit's Mill Pond BMAP

Ship Cooler On: 9/6/2019

Customer/Project: WAS-SECT/BMAP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Nutrients, Metals x4

Group B: Algal_ID x1

Packing Notes:

No Fedex Labels

No Trash Bags

1 - case of nitric acid/2 sets of labels

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 Preservation: ICE

Lot # 00077723

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 4 Preservation: ICE

Lot # 1259820

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00074433

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: 4 Preservation: ICE And H2SO4

Lot # 00074433

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: FILTER-ICE

Lot # 00072954

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 # 08018009

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: K12

Number of Coolers: 1

Date: 9.3.19

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

ID <u>Nitric Acid</u>	Exp <u>7.8.20</u>	Lot # <u>NA9189080</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2019-09-09-30