



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **Moore Branch @ Cody Church Rd**

Date: **05/15/2019**

WIN/ Field ID: **G1TLHR0041**

WBID: **977**

Latitude: **30.37470712**

County: **JEFFERSON**

ORG ID: **21FLTLHR**

Longitude: **-84.05292**

Receiving Body of Water: **St Marks River**

RQ: **2019-02-18-32**

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<i>Ben Harden</i> <i>Don Woods</i>				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole	
				☐	☐	☐	☐	☐	☐ Carboy	☐ Syringe		
				☐	☐	☐	☐	☐	☐ Dipper	☐ Other		
				Depth Measured with Equipment ID								
								Collection Method				
								☒ Wading	☐ Canoe/Kayak			
								☐ From Shore	☐ Electric Motor			
								☐ Other	☐ Gasoline Motor			
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded				Meter ID# 153484				Matrix: <u>fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No				Flow: No Flow / Intestinal / <u>Flowing</u> / NA				Tide: Rising/ Falling/ Slack/ NA				
Tide Times: High Low												
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)		
<u>EST</u>	1020	0.9	0.3	0.95	7.60	81.0	4.76	0.01	26.9	18.5		
CEN												
Biological Samples Collected: <u>None</u> 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		5/1834070	12/10/19	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3				☐ <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-C-IC / 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:												
G1TLHR0041 Place Label Here												
Signature: <i>[Signature]</i> Date: 05/15/2019												

LIMS EVENT ID: **TLH-ROC-2019-05-15-01**

Enter Field Parameters, Verify Station ID in LIMS DMT: **BH**

WIN Import ID:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets **BH**

(Initials/Date)

Migrate Data to WIN: **05/16/19**

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: TLH-ROC
Project ID: SMP

Requester: Michael Eckles
Collected By: Woods/Harden

Field Report Prepared By: Woods/Harden
Sampling Agency: SOG4

Field/WIN ID →			G1TLHR0040	
Location ↓	Sweetwater Branch @ Cody Church Rd			
Latitude	☐ dd	☐ dms	Longitude	☐ dd
☐ Comp ☒ Grab Collection (comp begin or grab) Date 05/15/2019 Time 0950 Eastern Composite end Date Time (See pg 2) Matrix (type, e.g., Salt, Fresh, etc) Fresh Diss. Oxygen 9.02 ☒ mg/L Total Res. Chlorine Temp (C) 17.7 pH 6.60 Sample Depth 0.2 ☐ ft ☒ m Sp. Conductance 59.3 Salinity (ppt) 0.02 Comments				
Field/WIN ID →			G1TLHR0041	
Location ↓	Moore Branch @ Cody Church Rd			
Latitude	☐ dd	☐ dms	Longitude	☐ dd
☐ Comp ☒ Grab Collection (comp begin or grab) Date 05/15/2019 Time 1020 Eastern Composite end Date Time Matrix (type, e.g., Salt, Fresh, etc) Fresh Diss. Oxygen 7.60 ☒ mg/L Total Res. Chlorine Temp (C) 18.5 pH 4.76 Sample Depth 0.3 ☐ ft ☒ m Sp. Conductance 26.9 Salinity (ppt) 0.01 Comments				
Field/WIN ID →			G1TLHR0084	
Location ↓	SPRING CREEK @ US98			
Latitude	☐ dd	☐ dms	Longitude	☐ dd
☐ Comp ☒ Grab Collection (comp begin or grab) Date 05/15/2019 Time 1130 Eastern Composite end Date Time Matrix (type, e.g., Salt, Fresh, etc) Fresh Diss. Oxygen 7.11 ☒ mg/L Total Res. Chlorine Temp (C) 20.9 pH 7.46 Sample Depth 0.3 ☐ ft ☒ m Sp. Conductance 409.5 Salinity (ppt) 0.20 Comments				
Field ID	Matrix (type, e.g., Salt, Fresh, etc) Time			
WIN/STORET #	Diss. Oxygen ☐ mg/L Total Res. Chlorine ☐ % sat (mg/L)			
Latitude	☐ dd	☐ dms	Longitude	☐ dd
Temp (C) pH Sample Depth ☐ ft ☐ m Sp. Conductance (umho/cm)				
Comments				

Relinquished By: Woods/Harden	Date/Time 05/15/2019	Shipping Method: Hand Delivered	Number of Coolers Shipped: 2	Received By: 	Date/Time 5/15/16 1525
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Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY					
	TURBIDITY					
	W-BR-IC					
	W-F					
	W-TSS					
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ENT-24-QT					
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	PCR-FILTER					
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
	W-ICP					
	W-ICPMS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	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: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F					
Group: B	Bottle Type:	P-1L	# of Bottles: 3	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: B	Bottle Type:	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab

Group: B	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: ECOLL-18QT	P-250ML-WO-THI	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: PCR-FILTER	QPCR-P-500ML	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-E8321-DI	BG-500ML	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: W-E8321-MS					
Group: B	Bottle Type: W-NH3	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	2
	W-NO2NO3					
	W-S-A-TP					
	W-TKN					
	W-TOC					
Group: B	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 3	Preservative: FILTER+ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: ALKALINITY	P-1L	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	
	TURBIDITY					
	W-CL-IC					
	W-COLOR					
	W-F					
	W-SO4-IC					
	W-TDS					
	W-TSS					
Group: C	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	
Group: C	Bottle Type: ECOLL-18QT	P-250ML-WO-THI	# of Bottles: 3	Preservative: ICE	Enter Number of Bottles Sent to Lab	
Group: C	Bottle Type: W-NH3	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	

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Group: C	Bottle Type: W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 3	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 3	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: ALKALINITY TURBIDITY W-BR-IC W-F W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: ENT-24-QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
Group: D	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
Group: E	Bottle Type: ALKALINITY TURBIDITY W-BR-IC W-F W-TSS	P-1L	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: E	Bottle Type: ENT-24-QT	P-250ML-WO-THI	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab

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Group: E	Bottle Type: QPCR-P-500ML PCR-FILTER	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab _____
Group: E	Bottle Type: P-500ML W-ICP W-ICPMS	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab _____
Group: E	Bottle Type: P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab _____
Group: E	Bottle Type: P-125ML W-PO4-F	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab _____

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: 153484

RQ: 2019-02-18-32

Project: 2019 SMP

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 04/19

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.	Ben Harden	05/14/19	0753	20.2	757.3	9.0	9.02	99.7		1.0027	P / F	L / F
ICV	"	"	0809	22.1	757.5	8.7	8.81	102.1			P / F	L / F
CCV	"	"	1535	20.5	756.2	9.0	9.04	100.7			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.	Ben Harden	05/14/19	0756	180621C	07/19	1000	1001	P / F	L / F
ICV	"	"	0757	2808884	07/20	100	100.7	P / F	L / F
CCV	"	"	1538	180621B	07/19	50000	51462	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.	Ben Harden	05/14/19	0754	180621E	01/20	7.03	19.2	7.03	-578	P / F	L / F
Calibr.	"	"	0802	190405B	10/20	4.00	18.2	4.00	141.7	P / F	L / F
Calibr.	"	"	0805	180621F	01/20	10.08	17.7	10.09	-200.7	P / F	L / F
ICV	"	"	0806	"	"	10.08	18.5	10.08	-202.4	P / F	L / F
CCV	"	"	1540	190405B	10/20	4.00	19.1	4.07	138.7	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 10 162.9, slope from 4 to 7 179.5 (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: 04/19

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	Ben Harden	05/14/19	0752	0.272	0.272	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:

