

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: 154177

RQ: 2019-09-09-31

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 07/19

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	09/10/19	0800	21.0	760.9	8.9	8.93	100.1	-	0.9902	P / F	D / F
ICV	"	"	0813	19.6	761.2	9.2	9.22	100.7	-	-	P / F	D / F
CCV	J Burckett		1500	25.2	761.2	8.2	8.28	100.4	-	-	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	09/10/19	0803	190618F	06/20	1000	1001	P / F	D / F
ICV	"	"	0804	2908081	08/21	100.0	101.4	P / F	D / F
CCV			1502	2908081	08/21	100	102	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	09/10/19	0806	190618B	12/20	7.02	20.3	7.02	-19.2	P / F	D / F
Calibr.	"	"	0809	190618A	12/20	4.06	19.7	4.00	155.9	P / F	D / F
Calibr.	"	"	0811	190618C	12/20	10.06	19.6	10.07	-183.2	P / F	D / F
ICV	"	"	0812	"	"	10.06	19.7	10.08	-184.2	P / F	D / F
CCV			1504	190405E	10/20	1.	20.5	1.18	380	P / F	D / 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 10 164.0, slope from 4 to 7 175.1 (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: 07/19

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	09/10/19	0747	0.000	0.000	P / F	D / 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 STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

January 2019

WIN Station Name: Little Aucilla River (@ US90)Date: 09/10/2019
(mm/dd/yyyy)WIN/ Field ID: G1TLHR0029WBID: 3314Latitude: 30.49089County: MADISONORG ID: 21FTLHRLongitude: -83.7085
(Decimal Degrees)Receiving Body of Water: Aucilla RiverRQ: 2019-09-09-31
(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>Bert Harden</u> <u>Sade Burtchett</u>				☒	☒	☒	☒	☒	☐ Sample Container	☒ Van Dorn	☐ Pole	
									☐ Carboy	☐ Syringe		
									☐ Dipper	☐ Other		
									Depth Measured with <u>P.O. 085-154177</u>			
									Equipment ID <u>#5</u>			
									Collection Method			
									☐ Wading	☐ Canoe/Kayak		
									☐ From Shore	☐ Electric Motor		
									☒ Other <u>Bridge</u>	☐ Gasoline Motor		
Water Level: Dry/ Pooled/ Low / <u>Normal</u> / High / Flooded				Meter ID# <u>154177</u>				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes ☐ No ☒				Flow: No Flow / Intertidal / <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 (umhos/cm)	Temp. (C°)		
EST	1035	1.8	0.3	0.2	1.80	22.0	3.73	0.05	58.1	25.0		
CEN	1040	1.8	1.3	0.2	1.77	21.4	3.69	0.05	58.1	25.0		
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	<u>SA9129100</u>	<u>05/01/20</u>	☒ <2				
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3	<u>NA9129070</u>	<u>05/01/20</u>	☒ <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-CL-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				☐ Ice							
	☐ 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				☐ Ice							
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA											
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C											

Notes:

Field/WIN ID →

Location ↓



G1TLHR0029



LITTLE AUCILLA RIVER

Signature: [Signature]Date: 09/10/2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

09-12-19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Little Aucilla Rvr at US221

Date: 09/10/2019
(mm/dd/yyyy)

WIN/ Field ID: G1TLHR0099

WBID: 3314

Latitude: 30.5127

County: MADISON

ORG ID: 21FTLHR

Longitude: -83.6322

Receiving Body of Water: Aucilla River

RQ: 2019-09-09-31

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment												
Ben Harder Sade Butcher						✓	✓	✓	✓	✓	☐ Sample Container ☒ Van Dorn ☐ Pole ☐ Carboy ☐ Syringe ☐ Dipper ☐ Other Depth Measured with P20 DSS 154177 Equipment ID #3												
											Collection Method ☐ Wading ☐ Canoe/Kayak ☐ From Shore ☐ Electric Motor ☒ Other Bridge ☐ Gasoline Motor												
Water Level: Dry/ Pooled/ Low <u>Normal</u> / High / Flooded						Meter ID# 154177						Matrix: <u>Fresh</u> / Marine / DI											
Photos: Yes <u>No</u>						Flow: No Flow / Intertidal / <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°)													
EST	1100	1.2	0.3	0.2	0.49	6.0	4.11	0.02	477	24.9													
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		549129100	05/09/20	✓ <2													
Metals		☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3		NA9129020	05/09/20	✓ <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-CI-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																					

Notes:

Field/WIN ID →

Location ↓



G1TLHR0099



LITTLE AUCILLA RVR @ US221

Signature:

[Signature]

Date:

09/10/2019

LIMS EVENT ID:

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

CB 9-12-19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: **Sugar Creek @ Suwannee River**

Date: **09/10/2019**
(mm/dd/yyyy)

WIN/ Field ID: **G1TLHR0047**

WBID: **3389**

Latitude: **30.39809905**
(Decimal Degrees)

County: **HAMILTON**

ORG ID: **21FTLHR**

Longitude: **-82.93431**
(Decimal Degrees)

Receiving Body of Water: **Suwannee River**

RQ: **2019-09-09-81**
(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ben Harden Jade Burdett				✓	✓	✓	✓	✓	☒ 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/ <u>Low</u> / Normal / High / Flooded				Meter ID# 154177				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>				Flow: No Flow / Intestinal / Flowing / 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°)		
EST	1210	0.1	0.05	0.1	8.25	100.3	7.49	0.08	162.7	25.3		
CEN				(S)								
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	549129100	05/09/20	☒ <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-Cl-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				☐ Ice							
	☐ 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				☐ Ice							
	☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA											
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C											

Notes:

Field/WIN ID →

Location ↓



G1TLHR0047

Sugar Creek @ Suwannee River

Signature:

Date: **09/10/2019**

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets **CG 9-12-19** (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)

Run 1

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Field Report Prepared By:

Collected By:

Sampling Agency:

Field/WIN ID → Location ↓ Latitude	 G1TLHR0029 LITTLE AUCILLA RIVER dd Longitude dms	☐ Comp ☒ Grab Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt) dd dms	Collection (comp begin or grab) Date 09/10/2019 Time 1035 pH 3.73 Comments 0.03	☐ Eastern ☒ Central Diss. Oxygen 1.80 Sample Depth 0.3 Sp. Conductance (umho/cm) 58.1	Composite end Date mg/L % sat Total Res. Chlorine Time	Bottle Group(s) (See pg 2) A
Field/WIN ID → Location ↓ Latitude	 G1TLHR0099 LITTLE AUCILLA RVR @ US221 dd Longitude dms	☐ Comp ☒ Grab Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt) dd dms	Collection (comp begin or grab) Date 09/10/2019 Time 1100 pH 4.11 Comments 0.02	☐ Eastern ☒ Central Diss. Oxygen 0.47 Sample Depth 0.3 Sp. Conductance (umho/cm) 47.7	Composite end Date mg/L % sat Total Res. Chlorine Time	Bottle Group(s) A
Field/WIN ID → Location ↓ Latitude	 G1TLHR0047 SUGAR CREEK @ SUWANNEE RIVER dd Longitude dms	☐ Comp ☒ Grab Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt) dd dms	Collection (comp begin or grab) Date 09/10/2019 Time 1210 pH 7.49 Comments 0.08	☐ Eastern ☒ Central Diss. Oxygen 8.25 Sample Depth 0.05 Sp. Conductance (umho/cm) 162.7	Composite end Date mg/L % sat Total Res. Chlorine Time	Bottle Group(s)
Field ID WIN/STORET # Latitude		☐ Comp ☒ Grab Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt) dd dms	Collection (comp begin or grab) Date pH Comments	☐ Eastern ☒ Central Diss. Oxygen Sample Depth Sp. Conductance (umho/cm)	Composite end Date mg/L % sat Total Res. Chlorine Time	Bottle Group(s)

Relinquished By: Buttlett/Harden	Date/Time 09/10/19	Shipping Method Hand Delivered	Number of Coolers Shipped:	Received By: Kik	Date/Time 9.10.19 / 13:45
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