



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Aucilla River

Date: 11/20/2018
(mm/dd/yyyy)

WIN/ Field ID: G1TLHR0019

WBID: 3310

Latitude: 30.27991

(Decimal Degrees)

County: Jefferson

ORG ID: 21FLTLHR

Longitude: 83.84214

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

RQ-2018- 11-05-46

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
<u>Ben Harden</u> <u>Chris Green</u>					☒	☒	☒	☒	☒	☒ 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# <u>153484</u>					Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>					Flow: No Flow / Intestinal / <u>Flowing</u> / NA					Tide: Rising/ Falling/ Slack/ <u>NA</u>				
Tide Times: High _____ Low _____														
Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (µmhos/cm)	Temp. (C°)				
<u>EST</u>	<u>1325</u>	<u>0.8</u>	<u>0.3</u>	<u>0.6</u>	<u>8.20</u>	<u>80.4</u>	<u>6.71</u>	<u>0.03</u>	<u>72.4</u>	<u>14.5</u>				
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	<u>SA8274050</u>	<u>10/01/19</u>	☒ <2					
Metals	☒ W-ICPMS ☒ W-ICP					☒ Ice ☐ HNO3	<u>NA887000</u>	<u>07/16/19</u>	☒ <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					☒ 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 ☐ W-CARB-AA					☐ Ice								
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R					☐ Other								

Notes:

Kit: C-b
Group: D

Field/WIN ID →

Location ↓



G1TLHR0019



AUCILLA RIVER

Signature: [Signature]

Date: 11/20/2018

Enter Field Parameters, Verify Station ID in LIMS DMT: 06 11/21/18

QC Station ID, Field Parameters in LIMS DMT: _____

Scan/Save Field Sheets 06 11/21/18 Migrate Data to WIN: _____

Verify Data in WIN: _____

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: 152484

RQ: 2018-11-05-46

Project: SMP 2018

- 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 10-22-2018

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	11/20/18	0845	20.2	760.5	9.06	9.06	100.1		1.062	P/F	L/F
ICV	"	"	0900	22.7	760.5	8.63	8.67	100.5			P/F	L/F
CCV	"	"	1435	24.9	758.7	8.28	8.40	101.3			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	11/20/18	0847	180621C	07/19	1000	1000	P/F	L/F
ICV	"	"	0903	1805F81	05/20	100	102.0	P/F	L/F
CCV	"	"	1437	180621C	07/19	1000	1003	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	11/20/18	0852	180621E	01/20	7.02	20.3	7.02	-16.9	P/F	L/F
Calibr.	"	"	0855	180621D	07/19	4.00	20.3	4.00	156.3	P/F	L/F
Calibr.	"	"	0859	180403D	10/19	10.06	20.3	10.06	-176.4	P/F	L/F
ICV	"	"	0906	180403D	10/19	10.06	20.3	10.08	-177.8	P/F	L/F
CCV	"	"	1439	180621D	07/19	4.00	20.4	4.01	164.1	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 10 159.5, slope from 4 to 7 173.2 (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: 10-22-2018

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	11/20/2018	0907	0.000	0.000	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:

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:

RQ-

Project:

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.											P / F	L / F
ICV											P / F	L / F
CCV											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.								P / F	L / F
ICV								P / F	L / F
CCV								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.						7.				P / F	L / F
Calibr.						4.				P / F	L / F
Calibr.						10.				P / F	L / F
ICV										P / F	L / F
CCV										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)

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						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: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Collected By:

Field Report Prepared By:

Sampling Agency:

Location		Field/WIN ID →		← Location		Econfin River 100m upstream of US98	
 G1TLHR0070		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☒ Grab		Collection (comp begin or grab)		Date 11/20/2018		Time 1045	
Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		7.40	
Temp (C)		15.4		pH		7.42	
Salinity (ppt)		0.07		Sample Depth		0.3	
☐ Eastern ☒ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine		157.1		D	
☐ ft ☒ m		Sp. Conductance (umho/cm)		157.1			
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☒ Grab		Collection (comp begin or grab)		Date 11/20/2018		Time 1325	
Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Diss. Oxygen		7.20	
Temp (C)		14.5		pH		6.71	
Salinity (ppt)		0.03		Sample Depth		0.3	
☐ Eastern ☒ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine		72.4		C	
☐ ft ☒ m		Sp. Conductance (umho/cm)		72.4			
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen			
Temp (C)				pH			
Salinity (ppt)				Sample Depth			
☐ Eastern ☐ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine					
☐ ft ☐ m		Sp. Conductance (umho/cm)					
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen			
Temp (C)				pH			
Salinity (ppt)				Sample Depth			
☐ Eastern ☐ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine					
☐ ft ☐ m		Sp. Conductance (umho/cm)					
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen			
Temp (C)				pH			
Salinity (ppt)				Sample Depth			
☐ Eastern ☐ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine					
☐ ft ☐ m		Sp. Conductance (umho/cm)					
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen			
Temp (C)				pH			
Salinity (ppt)				Sample Depth			
☐ Eastern ☐ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine					
☐ ft ☐ m		Sp. Conductance (umho/cm)					
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time	
Matrix (type, e.g., Salt, Fresh, etc)				Diss. Oxygen			
Temp (C)				pH			
Salinity (ppt)				Sample Depth			
☐ Eastern ☐ Central		Composite end		Date		Time	
☐ mg/L ☐ % sat		Total Res. Chlorine					
☐ ft ☐ m		Sp. Conductance (umho/cm)					
☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms		☐ dd ☐ dms	
☐ Comp ☐ Grab		Collection (					

Relinquished By: <i>Chris Green</i>	Date/Time <i>11/20/2018</i>	Shipping Method <i>Hand</i>	Number of Coolers Shipped: <i>1</i>	Received By: 	Date/Time <i>11/20/18</i>
			<i>1434</i>		

Group: A	Bottle Type:	P-1L	# of Bottles: 1	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: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ECOL-18QT					
Group: A	Bottle Type:	QPCR-P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	PCR-FILTER					
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	W-E8321-DI					
	W-E8321-MS					
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	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: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
	W-PO4-F					
Group: B	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	ALKALINITY					
	TURBIDITY					
	W-F					
	W-TSS					
Group: B	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
	CHLSUITE-W					

Group: B	Bottle Type: P-250ML-WO-THI ENT-24-QT	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: QPCR-P-500ML PCR-FILTER	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	Bottle Type: BG-500ML W-E8321-DI W-E8321-MS	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: B	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: B	Bottle Type: P-125ML W-PO4-F	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab 1
Group: C	Bottle Type: BP-1L CHLSUITE-W	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: P-250ML-WO-THI ECOLI-18QT	# of Bottles: 1	Preservative: ICE	Enter Number of Bottles Sent to Lab
Group: C	Bottle Type: P-500ML W-ICP W-ICPMS	# of Bottles: 1	Preservative: HNO3	Enter Number of Bottles Sent to Lab NA 8197060
Group: C	Bottle Type: P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab SA 8274050

Group: C	Bottle Type:	P-500ML	# of Bottles: 1	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3				
	W-NO2NO3				
	W-S-A-TP				
	W-TKN				
	W-TOC				

Group: C	Bottle Type:	P-125ML	# of Bottles: 1	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F				

Group: D	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: D	Bottle Type:	BP-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W				

Group: D	Bottle Type:	P-500ML	# of Bottles: 4	Preservative: HNO3	Enter Number of Bottles Sent to Lab
	W-ICP				
	W-ICPMS				NA 8197060

Group: D	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: D	Bottle Type:	P-125ML	# of Bottles: 4	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F				

Group: E	Bottle Type:	P-1L	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY				
	TURBIDITY				