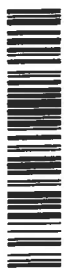


Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: TLH-ROC

Project ID: SMP

Requester: Michael Eckles

Field Report Prepared By: Blair, HardenCollected By: Blair, HardenSampling Agency: 8234

G1TLHR0064

Field/WIN ID →

Location ↓

Steinhatchee River @ S Canal Rd

Latitude

□ dd □ dms

□ dd □ dms

Longitude



G1TLHR0065

Field/WIN ID →

Location ↓

Steinhatchee River 40m N of Yearling Rd

Latitude

□ dd □ dms

□ dd □ dms

Longitude

Field ID	☐ Comp Grab ☒ Matrix (type, e.g., Salt, Fresh, etc) Temp (C) <u>26.9</u> Salinity (ppt) <u>0.08</u>	Collection Date <u>08/13/2019</u>	Time <u>1025</u>	☒ Eastern Central ☐ Composite end Date Diss. Oxygen <u>5.66</u> Sample Depth <u>0.3</u> pH <u>7.09</u> Sp. Conductance (umho/cm) <u>162.3</u>	Bottle Group(s) (See pg 2) <u>C</u>		
						☐ dd ☐ dms Longitude	☐ dd ☐ dms Latitude
WIN/STORET #							
Field ID	☐ Comp Grab ☒ Matrix (type, e.g., Salt, Fresh, etc) Temp (C) <u>26.7</u> Salinity (ppt) <u>0.08</u>	Collection Date <u>08/13/2019</u>	Time <u>1045</u>	☒ Eastern Central ☐ Composite end Date Diss. Oxygen <u>5.84</u> Sample Depth <u>0.3</u> pH <u>7.14</u> Sp. Conductance (umho/cm) <u>170.0</u>	Bottle Group(s) <u>B</u>		
WIN/STORET #							
Field ID	☐ Comp Grab ☐ Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt)	Collection Date	Time	☐ Eastern Central ☐ Composite end Date Diss. Oxygen Sample Depth pH Sp. Conductance (umho/cm)	Bottle Group(s)		
WIN/STORET #							
Field ID	☐ Comp Grab ☐ Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt)	Collection Date	Time	☐ Eastern Central ☐ Composite end Date Diss. Oxygen Sample Depth pH Sp. Conductance (umho/cm)	Bottle Group(s)		
WIN/STORET #							
Field ID	☐ Comp Grab ☐ Matrix (type, e.g., Salt, Fresh, etc) Temp (C) Salinity (ppt)	Collection Date	Time	☐ Eastern Central ☐ Composite end Date Diss. Oxygen Sample Depth pH Sp. Conductance (umho/cm)	Bottle Group(s)		
WIN/STORET #							

Relinquished By: <u>Harden/Blair</u>	Date/Time: <u>08/13/19</u>	Shipping Method: <u>Hand Delivered</u>	Number of Coolers Shipped:	Received By: <u>[Signature]</u>	Date/Time: <u>8/13/19 1430</u>
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Group: A	Bottle Type: ALKALINITY TURBIDITY W-BR-IC W-F W-TSS	P-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: ENT-24-QT	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: FCOLL-MF	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab _____
Group: A	Bottle Type: W-NH3 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: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____
Group: B	Bottle Type: BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab _____	



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Steinhatchee River 40m N of Yearling Rd

Date: 08/13/2019
(mm/dd/yyyy)

WIN/ Field ID: G1TLHR0065

WBID: 3573B

Latitude: 29.844862
(Decimal Degrees)

County: LAFAYETTE

ORG ID: 21FLTLHR

Longitude: -83.30591
(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

RQ- 2019-08-12-36

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<u>Ben Hardin</u> <u>Paul Star</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>154177</u>				Matrix: <u>Fresh</u> / Marine / DI				
Photos: Yes / <u>No</u>				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 (umhos/cm)	Temp. (C°)		
<u>EST</u>	<u>1045</u>	<u>0.9</u>	<u>0.3</u>	<u>0.2</u>	<u>5.84</u>	<u>730</u>	<u>7.14</u>	<u>0.08</u>	<u>170.0</u>	<u>26.7</u>		
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	<u>SA9010030</u>	<u>04/10/20</u>	☒ <2				
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3			☐ <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-CH-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											
Tracers	☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice							
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI				☐ Ice							
	☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA											
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice							
Notes:				Place Label Here								
Signature: <u>[Signature]</u>				Date: <u>08/13/2019</u>								

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 08-16-19 (Initials/Date) Migrate Data to WIN: _____ (Initials/Date) Verify Data In WIN: _____ (Initials/Date)



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes ☒ No ☐

WIN Station Name: **Steinhatchee River @ S Canal Rd**

Date: **06/13/2019**
(mm/dd/yyyy)

WIN/ Field ID: **G1TLHR0064**

WBID: **3573A**

Latitude: **29.830074**

County: **LAFAYETTE**

ORG ID: **21FTLHR**

Longitude: **-83.30821**
(Decimal Degrees)

Receiving Body of Water: **Gulf of Mexico**

RQ: **2019-08-12-36**
(Decimal Degrees)

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
<i>Ben Harden</i> <i>Paul Baker</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# 154172				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°)		
<u>EST</u>	1025	0.85	0.3	0.2	5.66	70.8	7.09	0.08	162.3	26.9		
CEN		0.9										
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 ☒ H ₂ SO ₄	SA9010030	04/10/20	☒ <2				
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO ₃	NA 9099000	04/09/20	☒ <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											
Tracers	☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice							
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI				☐ Ice							
	☐ W-PCL-SQ-R ☐ W-E8321-MS ☐ W-CARB-AA											
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C				☐ Ice							
Notes:												
Place Label Here												
Signature: <i>[Signature]</i> Date: 06/13/2019												

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

06-16-19

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(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: 154177

RQ: 2019-08-12-36

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	08/13/19	0753	21.2	754.5	8.8	8.82	99.3		0.9980	P / F	L / F
ICV	"	"	0809	20.5	754.8	8.9	8.98	99.8			P / F	L / F
CCV	"	"	0455	26.3	754.1	8.0	8.11	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	08/13/19	0756	19068F	06/20	1000	1001	P / F	L / F
ICV	"	"	0758	2905F63	05/21	100.0	102.0	P / F	L / F
CCV	"	"	1437	19068F	06/20	1000	1002	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	08/13/19	0800	190621E	01/20	7.02	20.2	7.02	-19.1	P / F	L / F
Calibr.	"	"	0803	190618A	12/20	4.00	20.3	4.00	154.8	P / F	L / F
Calibr.	"	"	0806	190621F	01/20	10.06	20.2	10.06	-185.1	P / F	L / F
ICV	"	"	0807	"	"	10.06	20.3	10.07	-185.9	P / F	L / F
CCV	"	"	1442	190618A	12/20	4.00	22.3	4.11	154.8	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 10 166.0, slope from 4 to 7 173.9 (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	08/13/19	0758	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:

