



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Ochlockonee River Downstream of Tower Rd

Date: 6/21/2018

WIN/ Field ID: G1WA0070

WBID: 1297E

Latitude: 30.52646

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.38821

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

RQ-2018- 05-14-19

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys					☒	☒	☒	☒	☒
Curtis Musson					☒	☒	☒	☒	☒

Sampling Equipment				
☒ Sample Container	☐ Van Dorn	☐ Pole		
☐ Carboy	☒ Syringe			
☐ Dipper	☐ Other			
Depth Measured with <u>Sonar</u>				
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>Biology #2</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 <u>NA</u> Low <u>NA</u>		

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>	10:40	3.0	0.3	0.3	5.65	70.8	6.34	0.03	72	26.85
CEN	10:45		2.5		5.59	70.0	6.42	0.03	73	26.84

Biological Samples Collected:	<u>None</u>	HA	SCI	RPS	Algae ID	LVS	LVI	Other:
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SBIO ID Numbers:	SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#: <u>2002764</u>
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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>SA8085170</u>	<u>3/26/19</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>NA 7261120</u>	<u>9/18/18</u>	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10827054</u>		
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 ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Notes:

Kit-C,
Bacteria

WIN ID / FIELD ID

Ochlockonee River
Downstream of Tower Rd



G1WA0070

Signature:

[Handwritten Signature]

Date:

6/21/18

Enter Field Parameters, Verify Station ID In LIMS DMT:

6/22/18 (Initials/Date)

QC Station ID, Field Parameters In LIMS DMT:

CN 6-25-18 (Initials/Date)

Scan/Save Field Sheets

CN 6-25-18 (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 is qualified data on this name.

Meter ID: BIO #2

RQ: 2018-05-1419

Project: 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.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification _____

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	6/21/18	7:05	21.36	8.86	8.85	100.0	60.4	-	(P) F	(L) F
ICV	Ben Roberts	6/21/18	7:06	21.37	8.86	8.85	100.0	61.4	-	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1339	24.49	8.430	8.39	100.4	62.5	-	(P) F	(L) F
CCV										P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	6/21/18	7:07	17100SD	10/2018	1,000	1,000	(P) F	(L) F
ICV	Ben Roberts	6/21/18	7:08	17100SD	10/2018	1,000	1,000	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1343	180326A	04/2019	100	103	(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	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Ben Roberts	6/21/18	7:10	180326D	10/2019	7.0	7.0	18.1	(P) F	(L) F
Calibr.	Ben Roberts	6/21/18	7:13	180326C	4/2019	4.01	4.0	129.7	(P) F	(L) F
Calibr.	Ben Roberts	6/21/18	7:15	171005C	4/2019	10.0	10.0	-149.0	(P) F	(L) F
ICV	Ben Roberts	6/21/18	7:17	171005C	4/2019	10.0	9.99	-148.6	(P) F	(L) F
CCV	Curtis Mussen	6/21/18	1347	180326C	4/2019	4.01	4.09	185	(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)

Is meter equipped with depth sensor? Yes / No If yes, list date of last quarterly depth 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:

Request Number: RQ-2018-05-14-19

Ocklocknee, Burnt Mill, Lewis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By:

Sampling Agency:

Curtis Musson

FDEP

last revised Jan 25, 2018

Location		FILED/WIN ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Burnt Mill Creek	8:00 6/21/18		8:00		Date		Time	
WIN/STORET #	Upstream of US 27	Fresh		83.7		mg/L Total Res. Chlorine		A,C	
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance	
		24.76		6.96		0.3		62	
Longitude		Salinity (ppt)		Comments					
		0.03		RPS/LVS					
Location		FILED/WIN ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Lewis Creek	6:21-18		1145		Date		Time	
WIN/STORET #		Fresh		80.6		mg/L Total Res. Chlorine		A,C	
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance	
		30.31		6.68		0.1		66	
Longitude		Salinity (ppt)		Comments					
		0.2							
Location		FILED/WIN ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		8:00 6/21/18		8:00		Date		Time	
WIN/STORET #		Fresh		83.7		mg/L Total Res. Chlorine		A,C	
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance	
		24.76		6.96		0.3		62	
Longitude		Salinity (ppt)		Comments					
		0.03		RPS/LVS					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	6/21/18 1:17	Dropoff	2		6/21/18 1:30

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Curtis Musson

Project ID: SMP

Collected By:

Curtis Musson, Ben Davis

Sampling Agency:

FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	mg/L	% sat	Total Res. Chlorine	(See pg 2)
Ochlocknee River Downstream of Tower Rd		Fresh	6-21-18	10:40	70.8				A.B
Latitude		Temp (C)	26.85	pH	6.34	Sample Depth	0.3	Sp. Conductance (umho/cm)	72
Longitude		Salinity (ppt)	0.03	Comments					
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	mg/L	% sat	Total Res. Chlorine	
Ochlocknee River Upstream of Tower Rd		Fresh	6-21-18	11:00	69.9				A.B
Latitude		Temp (C)	26.83	pH	6.31	Sample Depth	0.3	Sp. Conductance (umho/cm)	72
Longitude		Salinity (ppt)	0.03	Comments					
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	mg/L	% sat	Total Res. Chlorine	
Ochlocknee River Upstream of Old Brainbridge		NOT Collected							Not collect
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt)		Comments					
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	mg/L	% sat	Total Res. Chlorine	
Ochlocknee River Upstream of US 90		Fresh	6-21-18	9:50	70.1				A.B
Latitude		Temp (C)	27.13	pH	6.73	Sample Depth	0.3	Sp. Conductance (umho/cm)	80
Longitude		Salinity (ppt)	0.04	Comments					

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	6/21/18/1:17	DROP OFF	2		6/21/18 1320

Group: A	Bottle Type: ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
Group: A	Bottle Type: W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	5
H2SO4 Lot# S48085170 Exp: 03/26/19							
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 6	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	5
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 4	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	3
Lot# NA-7261120 Exp Date 9/18/18							
Group: C	Bottle Type: ALGAL_ID	PT-50ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2

Printed: 4/9/2018 12:01:03 PM

Page 1 of 2

Date of Request: 09-APR-2018
 Created By: MUSSON_C On: 09-APR-2018
 Modified By: MUSSON_C On: 09-APR-2018
 Customer: WAS-SECT
 Project: SMP
 Division: Division of Environmental Assessment and Restoration
 District:
 Sampling Event: Ocklocknee, Burnt Mill, Lewis

Send Coolers To:

Phone: 850-245-8453
 2600 Blair Stone Rd
 Tallahassee, FL 32399
 Attn: Curtis Musson

Program Module Number:

Priority: 3
 Event Status: P
 Criminal Investigation: NO

Chemistry Request Reviewed By:

Biology Request Reviewed By:

Sampling Kit Required: NO Ship on:

Sampling Kit Shipped:

Sampling Kit Packed By:

Preservatives Needed: NO

Date to Receive Samples: 17-MAY-2018

Received By:

Send Final Report To:

2600 Blair Stone Rd
 Tallahassee, FL 32399
 Attn: Curtis Musson

Report Type: Final Only

FTP Data: NO

QC Report: YES

Date Log: NO

Authorization Log: NO

Comments: Group A: Freshwater Kit, E.coli
 Group B: Metals
 Group C: Algal ID

Labels ONLY, We have the bottles.

Bottle Group A (Water) With 6 Samples:

Bottle Type:	Number of Bottles:	Preserved With:
ALKALINITY Total Alkalinity	Template: DEFAULT	(SM 2320 B-97) Alkalinity in aqueous matrices as mg CaCO3/L
CHLSUITE-W Chlorophyll-a, Corrected Chlorophyll-a, Uncorrected Phaeophytin-a	Template: DEFAULT	(SM 10200 H (mod.)) Phytoplankton chlorophyll-a corrected, uncorrected, and phaeophytin by spectrophotometry
ECOLI-18QT Escherichia Coli-Quanti-Tray	Template: DEFAULT	(SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems
TURBIDITY Turbidity	Template: DEFAULT	(EPA 180.1 Rev. 2.0) Turbidity in aqueous matrices
W-CL-IC Chloride	Template: DEFAULT	(EPA 300.0 Rev. 2.1) Chloride in aqueous matrices
W-COLOR Color (true)	Template: DEFAULT	(SM 2120 B) True Color measured at 450 nm
W-F Fluoride	Template: DEFAULT	(SM 4500 F-C-97) Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-NH3 Ammonia-N	Template: DEFAULT	(EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
W-NO2NO3 NO2NO3-N	Template: DEFAULT	(EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
W-PO4-F	Template: DEFAULT	(EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group A (Water) With 6 Samples:

Bottle Type: ECOLI-18QT Number of Bottles: 6 Preserved With: ICE
 Template: DEFAULT (SM 9223 Quanti-Tray) Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Escherichia Coli-Quanti-Tray

Bottle Type: P-500ML Number of Bottles: 6 Preserved With: ICE And H2SO4
 W-NH3 Template: DEFAULT (EPA 350.1 Rev. 2.0) Ammonia in aqueous matrices as mg N/L
 Ammonia-N
 W-NO2NO3 Template: DEFAULT (EPA 353.2 Rev. 2.0) Nitrite/Nitrate in aqueous matrices as mg N/L
 NO2NO3-N
 W-S-A-TP Template: DEFAULT (EPA 365.1 Rev. 2.0) Total Phosphorus in aqueous matrices as mg P/L
 Total-P
 W-TKN Template: DEFAULT (EPA 351.2 Rev. 2.0) Total Kjeldahl Nitrogen in aqueous matrices
 Kjeldahl Nitrogen
 W-TOC Template: DEFAULT (SM 5310 B-00) Nonpurgeable Organic Carbon in aqueous matrices
 Organic Carbon

Bottle Type: P-125ML Number of Bottles: 6 Preserved With: FILTER-ICE
 W-PO4-F Template: DEFAULT (EPA 365.1 Rev. 2.0) Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L
 O-Phosphate-P

Bottle Group B (Water) With 4 Samples:

Bottle Type: P-500ML Number of Bottles: 4 Preserved With: HNO3
 W-ICP Template: (EPA 200.7 Rev. 4.4) Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Calcium
 Chromium
 Iron
 Magnesium
 Nickel
 Potassium
 Sodium
 Zinc

W-ICPMS Template: (EPA 200.8 Rev. 5.4) Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Arsenic
 Cadmium
 Copper
 Lead
 Silver

Bottle Group C (Biological) With 3 Samples:

Bottle Type: PT-50ML Number of Bottles: 3 Preserved With: ICE
 ALGAL_ID Template: DEFAULT (SOP-AB05) Qualitative assessment of algal taxa present without counts
 *Dominant sample taxon

* - The laboratory is not NELAP certified for this analyte/method, or certification is not applicable.