



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

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Data Qualified?
Yes / No

STORET Station Name: Ochlockonee River upstream of SR 12

Date: 05/11/2016

(mm/dd/yyyy)

STORET Station ID: G1WA0038

Latitude: 30.67062

(Decimal Degrees)

WBID: 1297F

RQ: 2016-05-09-75

ORG ID: 21FLWQA

Longitude: -84.30511

(Decimal Degrees)

Receiving Body of Water: Gulf Of Mexico

Field ID: G1WA0038

County: Gadsden

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Duplicate Collection	Blank Collection
Curtis Musson				X	X	X		
Robert Wiwi		X	X					

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID		
Collection Method		
☐ Wading	☒ Via Boat	
☐ From Shore	☒ Canoe/Kayak	
☐ Other (note below)	☐ Electric Motor	
	☐ Gasoline Motor	

Water Level: Dry / Low / <u>Normal</u> / High / Flooded	Matrix: <u>Fresh</u> / Marine / DI
Meter ID# Biology <u>2</u>	Photos: Yes / <u>No</u>
	Tide Falling: Yes / No / <u>NA</u>

Field Sample

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>13:30</u>	<u>0.3</u>	<u>3.7</u>	<u>11.18</u>	<u>130.1</u>	<u>6.80</u>	<u>0.05</u>	<u>0.5</u>	<u>116</u>	<u>22.87</u>
CEN	<u>13:40</u>	<u>3.2</u>		<u>11.09</u>	<u>128.6</u>	<u>6.79</u>	<u>0.05</u>		<u>116</u>	<u>22.73</u>

Biological Samples Collected: <u>None</u> HA SCI LVS RPS LVI Other						
Parameter Suite	Parameter Methods		Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP		☒ Ice ☒ H2SO4	SA 5259020	09/16/2016	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP		☒ Ice ☒ HNO3	NA 5259030	09/16/2016	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter		☒ Ice	Contains 1:1 Sulfuric Acid SA-5259020 EXP: 09/16/16 Warning! See MSDS Contains 1:1 Nitric Acid NA-5259030 EXP: 09/16/16 Warning! See MSDS		
Chlorophyll	☒ CHLSUITE-W		☒ Ice			
Physical/Aggregate (Kit A/C)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS		☒ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY		☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC		☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Enteroc ☐ QPCR		☐ Ice			
Periphyton	☐ ALGAE-ID		☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH		☐ Ice ☐ Other			

QA/QC Sample Information

Duplicate

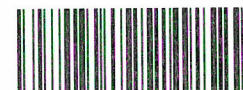
Time Zone: EST CEN		Sample Depth (m): _____		Field ID: <u>G1WA0042B</u> <u>CM</u>	
Time: _____		Total Depth (m): _____			
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄	SA 5259020	09/16/2016	☐ < 2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO ₃	NA 5259030	09/16/2016	☐ < 2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)		
Chlorophyll	☐ CHLSUITE-W	☐ Ice			
Physical/Aggregate (Kit A/C)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice			
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Blank

Time Zone: EST CEN		Time: _____		Field ID: <u>G1WA0042B</u> <u>CM</u>		Location: <u>Ochlockonee River 350m upstream of SR 12</u> <u>CM</u>	
☐ Field Blank ☐ Equipment Blank ☐ Field Cleaned Equipment Blank		Equipment ID: _____					
Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☐ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☐ Ice ☐ H ₂ SO ₄	SA 5259020	09/16/2106	☐ < 2		
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice	NA 5259030	09/16/2016	☐ < 2		
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	Place Preservative Sticker(s) Here (If Available)				
Chlorophyll	☐ CHLSUITE-W	☐ Ice					
Physical/Aggregate (Kit A/C)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS	☐ Ice					
Physical/Aggregate (Kit B/D)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice					
Microbiology	☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR	☐ Ice					
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other					

Notes:

Do Did Not Pass Cov "J"



G1WA0038 11 May 2016

Ochlockonee River upstream of SR 12

Signature:

CM

Date:

5-11-16

Field Parameters Entered into LIMS:

CM 5-12-16

(Initials/Date)

Field Parameters QC in LIMS:

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

5-12-16

(Initials/Date)

RQ-2016-05-09-75

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

~~Boldly "X" this box if there is qualified data in this name.~~

Meter ID: Biodex #2Project: SNP

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (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.	Curtis Musson	5/11/16	0719	22.65	8.61	8.64	100.0	46.1	—	P	L
ICV	Curtis Musson	5/11/16	0720	22.66	8.61	8.64	100.0	46.1	—	P	L
CCV	Curtis Musson	5/11/16		23.32	8.53	14.76	173.00	51.2	—	F	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

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; 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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	5/11/16	0723	CC14162	10/15/16	996	996	P	L
ICV	Curtis Musson	5/11/16	0724	CC14162	10/15/16	996	996	P	L
CCV	Curtis Musson	5/11/16	15:01	CC13882	7/15/16	101.1	97	P	L
CCV									

Report specific conductance as a whole number with no decimal figure.

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.	Curtis Musson	5/11/16	0726	153035	07/20/17	7.0	7.00	10.4	P	L
Calibr.	Curtis Musson	5/11/16	0730	154634	07/20/17	4.0	4.00	165.3	P	L
Calibr.	Curtis Musson	5/11/16	0732	160330C	10/20/17	10.0	10.00	189.2	P	L
ICV	Curtis Musson	5/11/16	0734	154634	07/20/17	4.00	4.01	164.7	P	L
CCV	Curtis Musson	5/11/16	1504	153035	07/20/17	7.00	7.01	10.5	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;mV pH7 Range 0 $\pm$ 50;mV pH 4 Range +180 $\pm$ 50;mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165 and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

Request Number: RQ-2016-05-09-75

Ochlockonee River, Harbinwood Estates Drain and
Chicken BranchFlorida Department of Environmental Protection
Central Laboratory Submittal Form

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last revised Apr 7, 2016

Customer: WQAP

Project ID: SMP

Requester: Benjamin Ralys

Field Report Prepared By:

Curtis Musson

Collected By:

Curtis Musson / Robert Wilvi

Sampling Agency:

FDEP

Location				☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	Time	☒ Eastern	Composite end	Bottle Group(s) (See pg 2)			
Field ID						Date	5-11-16	Time	11:35	Central	Date		Time		
STORET #	G1WA0034 11 May 2016 HARBINWOOD ESTATES DRAIN			Matrix (type, e.g., Salt, fresh , etc)		Fresh		Diss. Oxygen		☒ mg/L	Total Res. Chlorine				
Latitude		☐ dd	Longitude	☐ dd	Salinity (ppt)	0.05	Temp (C)	24.35	pH	6.91	Sample Depth		0.3m	Sp. Conductance (umho/cm)	104
		☐ dms		☐ dms	Comments		SMP 0.1 meters								
Location				☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	5/11/16	Time	13:05	☒ Eastern	Composite end	Bottle Group(s)	
Field ID						Date	5/11/16	Time	13:05	Central	Date	Time			
STORET #	G1WA0042 11 May 2016 Ochlockonee River 350m upstream of SR 12			Matrix (type, e.g., Salt, fresh , etc)		Fresh		Diss. Oxygen		☒ mg/L	Total Res. Chlorine				
Latitude		☒ dd	Longitude	☒ dd	Salinity (ppt)	0.05	Temp (C)	22.81	pH	6.80	Sample Depth	0.3m	Sp. Conductance (umho/cm)		116
		☐ dms		☐ dms	Comments		SMP								
Location		Ochlockonee River 350m upstream of SR 12		☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	5/11/16	Time	13:05	☒ Eastern	Composite end	Bottle Group(s)	
Field ID	G1WA0042D					Date	5/11/16	Time	13:05	Central	Date	Time			
STORET #	G1WA0042			Matrix (type, e.g., Salt, fresh , etc)		Fresh		Diss. Oxygen		☒ mg/L	Total Res. Chlorine				
Latitude		☒ dd	Longitude	☒ dd	Salinity (ppt)	0.05	Temp (C)	22.81	pH	6.80	Sample Depth	0.3	Sp. Conductance (umho/cm)		116
		☐ dms		☐ dms	Comments		Duplicate / SMP								
Location				☐ Comp	Collection (comp begin or grab)		☒ Grab	Date	5/11/16	Time	13:30	☒ Eastern	Composite end	Bottle Group(s)	
Field ID						Date	5/11/16	Time	13:30	Central	Date	Time			
STORET #	G1WA0038 11 May 2016 Ochlockonee River upstream of SR 12			Matrix (type, e.g., Salt, fresh , etc)		Fresh		Diss. Oxygen		☒ mg/L	Total Res. Chlorine				
Latitude		☒ dd	Longitude	☒ dd	Salinity (ppt)	0.05	Temp (C)	22.87	pH	6.80	Sample Depth	0.3	Sp. Conductance (umho/cm)		116
		☐ dms		☐ dms	Comments		SMP								

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Curtis Musson	5/11/16 14:45	DROPOFF	2	MUB	5/11/16 2:38pm

Curtis
mm

Cooler Packing Worksheet for Request: RQ-2016-05-09-75
Ochlockonee River, Harbinwood Estates Drain and Chicken Branch

Ship Cooler On: 4/26/2016
Customer/Project: WQAP/SMP

Requester: Benjamin Ralys
Priority: 3

850-245-8443
2600 Blair Stone Rd
MS #3560
Tallahassee, FL 32399-2400
Attn: Benjamin Ralys

Comments:

No preservatives needed.

Bottle Group A: freshwater kits including metals (this bottle group also includes 1 Dup and 1 blank)

Bottle Group B: freshwater kits no metals

Bottle Group C: Biology (SCI)

Bottle Group D: Biology Algal ID

Please include enough DI water for 1 freshwater kit including metals.

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY
TURBIDITY
W-CL-IC
W-COLOR
W-F
W-TDS
W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO₃/L
Turbidity in aqueous matrices
Chloride in aqueous matrices
True Color measured at 450 nm
Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
Total Dissolved Solids in aqueous matrices
Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 5 Preservation: HNO3

Lot # 00064521

Description: Plastic Bottle 500 mL

Affix RED nitric acid dot to container.

Analysis

W-ICP

W-ICPMS

Description

Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects

Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00064521

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 5 Preservation: ICE-FLTR

Lot # 00064520

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B

of Sites: 1

Container ID: P-1L

Qty: 1 Preservation: ICE

Lot # 00064935

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-TDS

W-TSS

Description

Alkalinity in aqueous matrices as mg CaCO3/L

Turbidity in aqueous matrices

Chloride in aqueous matrices

True Color measured at 450 nm

Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 1 Preservation: ICE

Lot # 1170333

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

Phytoplankton chlorophyll-a corrected, uncorrected, phaeophytin and ratio by spectrophotometry

Container ID: P-500ML

Qty: 1 Preservation: ICE And H2SO4

Lot # 00064521

Description: Plastic Bottle 500 mL

Affix YELLOW sulfuric acid dot to container.

Analysis

W-NH3

W-NO2NO3

W-S-A-TP

W-TKN

W-TOC

Description

Ammonia in aqueous matrices as mg N/L

Nitrite/Nitrate in aqueous matrices as mg N/L

Total Phosphorus in aqueous matrices as mg P/L

Total Kjeldahl Nitrogen in aqueous matrices

Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML

Qty: 1 Preservation: ICE-FLTR

Lot # 000649
00064520

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 1

Container ID: PJ-2L

Qty: 2 Preservation: Formalin

Lot # BIO WASH

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

No. Taxa of FW macroinverts, qual samp, 20 dipnets.

Bottle Group: D

of Sites: 2

Container ID: PT-50ML

Qty: 2 Preservation: ICE

Lot # 430897

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: SK Date: 5-9-16
DEP Cooler ID #(s): 2 Coolers

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle (1 per cooler)
- ☐ FedEx Bills, if applicable (1 per cooler)
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____
ID _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2016-05-09-75