



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

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Data Qualified?
Yes / No

Location/STORET Station Name: Caney Creek Upstream of US 90

Date: 10/25/2017

(mm/dd/yyyy)

STORET # G1WA0014

WBID: 716

Latitude: 30.5325

(Decimal Degrees)

County: Jefferson

RQ - 2017-10-23-20

ORG ID: 21FLWQA

Longitude: -83.9501

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0014_10252017

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ray Stuart					☒	☒	☒	☒	☒
Curtis Musson					☒	☒	☒	☒	☒

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 / Pooled / Low / Normal / High / Flooded					Matrix: Fresh / Marine / DI									
Meter ID# BIO 2					Photos: Yes / No					Tide Falling: Yes / No / NA				
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)				
EST	11:00	0.15	0.3	9.23	95.7	7.90	0.05	VOB	103	17.14				
CEN														

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1939969

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	SA7233030	8/2/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	7086060	3/27/18	☒ <2
Filtered Nutrients	☒ W-P04-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☐ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-S04-IC / W-TDS	☐ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci ☒ qPCR	☒ Ice			
Tracers	☒ W-SUC-AA-R ☒ W-UHERB-AA ☒ W-AHERB-AA	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Other			

Notes: Field ID → Caney Creek Upstream of US 90
Kit C
Ecoli
Tracers
PCR_FILTER,
BacR_HE183
OCT 25, 2017
G1WA0014_10252017

Caney Creek Upstream of US 90

STORET ↓
G1WA0014

Signature: [Signature] Date: 10/25/17

Field Parameters Entered into LIMS: CM 10/26/17 (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Parameters QC in LIMS: [Signature] 4/11/18 (Initials/Date)

Field Sheets Scanned/Saved: 4.13.18 (Initials/Date)

Wakulla, Moriah, (and), Vandal

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:

2017-10-23-20

Project:

SNP

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.	Curtis Musson	10/25/17	708	20.77	8.96	8.96	100.0	51	—	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	10/25/17	709	20.77	8.96	8.95	100.0	51	—	Ⓟ/F	Ⓟ/F
CCV	Curtis Musson	10/25/17	1416	20.30	9.03	9.23	102.1	51	—	Ⓟ/F	Ⓟ/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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	10/25/17	712	171005 D	10/2018	1000	1000	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	10/25/17	713	171005 D	10/2018	1000	1001	Ⓟ/F	Ⓟ/F
CCV	Curtis Musson	10/25/17	1418	170614 D	6/2018	100	105	Ⓟ/F	Ⓟ/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.	Curtis Musson	10/25/17	715	170614 B	12/2018	7.0	6.99	48	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	10/25/17	718	171005 A	10/2018	4.01	4.01	218	Ⓟ/F	Ⓟ/F
Calibr.	Curtis Musson	10/25/17	720	170310 C	9/2018	10.01	9.95	-105	Ⓟ/F	Ⓟ/F
ICV	Curtis Musson	10/25/17	722	170310 C	9/2018	10.01	9.93	-104	Ⓟ/F	Ⓟ/F
CCV	Curtis Musson	10/25/17	1420	171005 A	10/2018	4.01	4.19	208	Ⓟ/F	Ⓟ/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	Curtis Musson	10/25/17	723	0.000	0.00	Ⓟ/F	Ⓟ/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 Lab Sample Submittal Form

Request Number: RQ-2017-10-23-20
Wakulla, Moriah, Caney, Ward
Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By: Raymond
Sampling Agency: FDEP

Collected By: Curtis Musson, Raymond Stuart

Loc
Wakulla River
Below Highway
98 Bridge
STC
Field ID →
Wakulla River
Below Highway
98 Bridge
OCT 25, 2017
G1WA00028_10252017
G1WA00028

Matrix (Salt / Fresh)	Date	Time	Collection (comp begin or grab)	Eastern	Central	Date	Time	Bottle Group(s)	
☒ Grab	10/25/17	9:10 am		☒ Eastern	☐ Central			A	
Temp (C)	19.22	Diss. Oxygen (mg/L)	5.62	pH	8.49	Sample Depts (m)	0.3	Sp. Conductance (umho/cm)	335
Salinity (ppt)	0.16	Comments							
Latitude (Decimal Degrees)				Longitude (Decimal Degrees)					
30.17607				-84.2429					

Loc
Moriah Creek 100
meters upstream
of Newport Rd.
STC
Field ID →
Moriah Creek 100
meters upstream
of Newport Rd.
OCT 25, 2017
G1WA00057_10252017
G1WA00057

Matrix (Salt / Fresh)	Date	Time	Collection (comp begin or grab)	Eastern	Central	Date	Time	Bottle Group(s)	
☒ Grab	10/25/17	9:55 am		☒ Eastern	☐ Central			A	
Temp (C)	15.92	Diss. Oxygen (mg/L)	7.05	pH	8.09	Sample Depts (m)	0.15	Sp. Conductance (umho/cm)	463
Salinity (ppt)	0.22	Comments							
Latitude (Decimal Degrees)				Longitude (Decimal Degrees)					
30.1857				-84.1929					

Loc
Wards Creek
upstream of
bridge at
CR 259
STC
Field ID →
Wards Creek
upstream of
bridge at
CR 259
OCT 25, 2017
G1WA00002_10252017
G1WA00002

Matrix (Salt / Fresh)	Date	Time	Collection (comp begin or grab)	Eastern	Central	Date	Time	Bottle Group(s)	
☒ Grab	10/25/17	11:00 am		☒ Eastern	☐ Central			A C D E	
Temp (C)	17.14	Diss. Oxygen (mg/L)	9.23	pH	7.90	Sample Depts (m)	0.15	Sp. Conductance (umho/cm)	103
Salinity (ppt)	0.05	Comments							
Latitude (Decimal Degrees)				Longitude (Decimal Degrees)					
30.5325				-83.9501					

Received By: [Signature]
Date/Time: 10/25/17 1:28 pm
Number of Coolers: 2

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: RQ-2017-10-23-20

Wakulla, Moriah, Caney, Ward

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Field Report Prepared By:

Sampling Agency: FDEP

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Collected By:

Location

Caney Creek
Upstream of
US 90

Field ID →
Caney Creek
Upstream of
US 90
OCT 25, 2017

Location

Caney Creek
Downstream
of 158A

Field ID →
Caney Creek
Downstream
of 158A
OCT 25, 2017

Location

Field ID

STORET #

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Matrix (Salt, Fresh)	Date	Time	Eastern Central	Date	Time
☒ Comp ☐ Grab	10/25/17	11:40 am	Eastern Central		
Diss. Oxygen (mg/L)	1.43				
pH	6.03				
Temp (C)	17.08				
Salinity (ppt)	0.02				
Latitude (Decimal Degrees)	30.605				
Longitude (Decimal Degrees)	-83.893257				
Bottle Group(s) A B C D E					
☒ Comp ☐ Grab	10/25/17	12:27 pm	Eastern Central		
Diss. Oxygen (mg/L)	8.84				
pH	7.08				
Temp (C)	17.43				
Salinity (ppt)	0.05				
Latitude (Decimal Degrees)	30.52				
Longitude (Decimal Degrees)	-83.94				
Bottle Group(s) A B C D E					
☐ Comp ☐ Grab			Eastern Central		
Diss. Oxygen (mg/L)					
pH					
Temp (C)					
Salinity (ppt)					
Latitude (Decimal Degrees)					
Longitude (Decimal Degrees)					
Bottle Group(s) A B C D E					

Relinquished By:

Number of Coolers

Received By:

Date/Time

10-25-17/1:46

Group: A	Bottle Type:	P-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 5	Preservative:	ICE	Enter Number of Bottles Sent to Lab	5
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 5	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	5
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 5	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	5
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 2	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	2
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	ECOLI-18QT						
Group: D	Bottle Type:	BG-1L	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-AHERB-AA						
	W-SUC-AA-R						
	W-UHERB-AA						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-FILTER						
	PCR-GFD						
	PCR-HF183						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4

Group: F

Bottle Type:
PCR-BACR
PCR-FILTER
PCR-HF183

QPCR-P-250ML

of Bottles: 4

Preservative:

ICE

Enter Number of Bottles Sent to Lab

4

Cooler Packing Worksheet for Request: RQ-2017-10-23-20

Wakulla, Moriah, Caney, Ward

Ship Cooler On: 10/20/2017

Customer/Project: WAS-SECT/SMP

Assigned To: SHAIK_A

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Kit

Group B: Metals

Group C: ECOLI

Group D: Tracers (AHERB Short list)

Group E: PCR Filter, HF183, GFD

Group F: PCR Filter, HF183, BacR

1 - case of sulfuric acid

No FedEx labels

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # 00069122

Description: Plastic Bottle 1L

Analysis

ALKALINITY

TURBIDITY

W-CL-IC

W-COLOR

W-F

W-SO4-IC

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)

Sulfate in aqueous matrices

Total Dissolved Solids in aqueous matrices

Total Suspended Solids in aqueous matrices

Container ID: BP-1L

Qty: 5 Preservation: ICE

Lot # 1204544

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 5 Preservation: ICE And H2SO4

Lot # 00068654

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: FILTER-ICE

Lot # 0008347

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: 2

Container ID: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00068654

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

Bottle Group: C

of Sites: 3

Container ID: P-250ML-WO-THI

Qty: 3 Preservation: ICE

Lot # L16292

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: D

of Sites: 3

Container ID: BG-1L

Qty: 3 Preservation: ICE

Lot # 00061117

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

Description

Chlorinated (phenoxy acid) herbicides in water matrices by HPLC/MS/MS

Analysis of sucralose in water matrices by HPLC/MS/MS

Urea herbicides and other chemicals in water matrices by HPLC/MS/MS

Bottle Group: E

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 Preservation: ICE

Lot # 00068679

Description:

Analysis

PCR-FILTER

PCR-GFD

PCR-HF183

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of bird specific Helicobacter GFD genetic marker with quantitative polymerase chain reaction

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Bottle Group: F

of Sites: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00068679

Description:

Analysis

PCR-BACR

PCR-FILTER

PCR-HF183

Description

Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction

Preparation of Samples by Filtration and held for qPCR Analysis

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Cooler Packed By: ABP Number of Coolers: 2 Date: 10-20-17

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☒ Zip Ties

If Preservation Included:

ID <u>42041.1</u>	Exp <u>8-21-17</u>	Lot # <u>SA 7233030</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-23-20