



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?

Yes / No

Location/STORET Station Name: Wards Creek upstream of bridge at CR 259

Date: 10/25/2017

(mm/dd/yyyy)

STORET # G1WA0002

WBID: 459

Latitude: 30.605

County: Jefferson RQ - 2017-10-23-20

ORG ID: 21FLWQA

Longitude: -83.893257

(Decimal Degrees)

(Decimal Degrees)

Receiving Body of Water: Lake Miccosukee

Field ID: G1WA0002_10252017

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Ray Stuart					X	X	X	X	☒ Sample Container	☐ Van Dorn	☒ Pole	
Curtis Musson				X	X				☐ 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				Tide Falling: Yes / No / NA				
Meter ID# BIO 2				Photos: Yes / No								
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°)		
EST	11:40 AM	0.2	0.4	1.43	14.8	6.03	0.02	V08	45	17.08		
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		8/21/18	☒ <2	
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO3					☐ <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 ☒ 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 ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R				☐ Ice ☐ Other						

Notes:

Kit A
E.coli
Tracers
PRC-FILTER,
HE183 GED

Field ID: ➔

Wards Creek
upstream of
bridge at
CR 259

OCT 25, 2017



G1WA0002_10252017

Wards Creek
upstream of
bridge at
CR 259

STORET ↓



G1WA0002

Signature: _____

Date: 8/25/17

Field Parameters Entered into LIMS: _____

(Initials/Date)

Field Parameters QC in LIMS: _____

(Initials/Date)

Date Migrated to STORET: _____

(Initials/Date)

Field Sheets Scanned/Saved: _____

(Initials/Date)

Wakula, Meriah, Candu, Vandi

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 page.

Meter ID: B0 #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.

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 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

Wakulla River
Below Highway
98 Bridge



Field ID: →
Wakulla River
Below Highway
98 Bridge
OCT 25, 2017
G1WA00028_10252017

Moriah Creek 100
meters upstream
of Newport Rd.



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

Wards Creek
upstream of
bridge at
CR 259



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

Matrix	Temp (C)	pH	Diss. Oxygen (mg/L)	Sample Depts (m)	Sp. Conductance (umho/cm)	Time	Bottle Group(s)
Grab	19.22	8.49	5.62	0.3	335		A
Comp	0.16						
Latitude (Decimal Degrees) 30.17607							Longitude (Decimal Degrees) -84.2429
Grab	15.92	8.09	7.05	0.15	463		A
Comp	0.22						
Latitude (Decimal Degrees) 30.1857							Longitude (Decimal Degrees) -84.1929
Grab	17.14	7.90	9.23	0.15	103		A C D E
Comp	0.05						
Latitude (Decimal Degrees) 30.5325							Longitude (Decimal Degrees) -83.9501

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

Wakulla, Moriah, Caney, Ward

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By:

Field Report Prepared By: _____
Sampling Agency: FDEP

Page 2 of 4

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
Central Lab Sample Submittal Form

[illegible]

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
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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: ARB 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>425041.1</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