



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

October 2017

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Data Qualified?

Yes ☒ No ☐

Location/STORET Station Name: Black Creek upstream of SR 375

Date: 11/28/2017

(mm/dd/yyyy)

STORET # G1WA0047

WBID: 1024

Latitude: 30.325

County: Leon

RQ - 2017-11-27-25

ORG ID: 21FLWQA

Longitude: -84.693

(Decimal Degrees)

Receiving Body of Water: Ochlockonee River

Field ID: G1WA0047

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ray Stuart					XX				
Curtis Musson						X	NA		

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID		

Collection Method		
☒ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☐ Gasoline Motor	

Water Level: Dry / Low / Normal / Above Normal / Flooded

Meter ID# B7012

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Intestinal / Flowing / NA

Tide: Rising / Falling / Slack / NA

Tide Times: High NA Low NA

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	8:20	0.1	0.2	11.07	100.9	7.18	0.05	1.03	101	11.45
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			☐ <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	☒ 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-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here (If Available)

Notes: Ecoli Tracers BacR, HF183 GFD (No Filter) Black Creek upstream of SR 375

STORET ↓

G1WA0047

Field ID →

Black Creek upstream of SR 375

Nov 28, 2017

G1WA0047

Signature: *Curtis Musson*

Date: 11/28/17

Field Parameters Entered into LIMS: *11/3/18*

Field Parameters QC in LIMS: *CM 1-26-18*

Date Migrated to STORET: *11/3/18*

Field Sheets Scanned/Saved: *11/28/17*

Jefferson
Wickburg R Bick Creek

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- 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.	Curtis Mussen	11/28/17	6:59	20.62	8.985	8.98	100.0	51.2	-	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Mussen	11/28/17	7:01	20.62	8.985	9.00	100.3	51.2	-	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:43	20.28	9.05	9.22	102.0	28.8	-	☒ 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	11/28/17	7:02	171005D	10/2018	1000	1000	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Mussen	11/28/17	7:03	171005D	10/2018	1000	1001	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:46	171005E	10/2018	100	99	☒ 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.	Curtis Mussen	11/28/17	7:07	170614B	12/2018	7.00	7.00	10.0	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Curtis Mussen	11/28/17	7:09	171005A	10/2018	4.01	4.01	183	☒ P / ☐ F	☒ L / ☐ F
Calibr.	Curtis Mussen	11/28/17	7:10	170310C	9/2018	10.01	9.98	-158	☒ P / ☐ F	☒ L / ☐ F
ICV	Curtis Mussen	11/28/17	7:12	170310C	9/2018	10.01	9.97	-156	☒ P / ☐ F	☒ L / ☐ F
CCV	Ben Rahes	11/28/17	2:48	171005A	10/2018	4.0	3.92	187.8	☒ 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 , 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 Mussen	11/28/17	7:04	0.00	0.00	☒ 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:

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: RQ-2017-11-27-25
 Black, Caney, Chicke, Ward, Wakulla
 Customer: WAS-SECT
 Project ID: SMP

Requester: Curtis Musson
 Collected By: Curtis Musson, Ben Babys

Field Report Prepared By: Curtis Musson
 Sampling Agency: FDEP

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 Curtis Musson

Location		Collection (comp begin or grab)		Eastern Central		Bottle Group(s)	
File	ST	Matrix (Salt, Fresh)	Date	Time	Sample Depts (m)	Sp. Conductance (umho/cm)	
Black Creek upstream of SR 375	Black Creek upstream of SR 375	Fresh	11/28/17	8:20	0.1	101	C, D, E
Field ID →	Field ID →						
Black Creek upstream of SR 375	Black Creek upstream of SR 375						
Nov 28, 2017	Nov 28, 2017						
Wakulla River Below Highway 98 Bridge	Wakulla River Below Highway 98 Bridge	Fresh	11/28/17	9:30	0.3	341	A
Field ID →	Field ID →						
Wakulla River Below Highway 98 Bridge	Wakulla River Below Highway 98 Bridge						
Nov 28, 2017	Nov 28, 2017						
Chicken Branch at Old Plank Rd	Chicken Branch at Old Plank Rd	Fresh	11/28/17	10:16	0.3	307	A, C, D, E
Field ID →	Field ID →						
Chicken Branch at Old Plank Rd	Chicken Branch at Old Plank Rd						
Nov 28, 2017	Nov 28, 2017						

Relinquished By: Curtis Musson
 Date/Time: 11/28/17 1316
 Number of Coolers: 3
 Received By: [Signature]
 Date/Time: 11/28/17 1355

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Request Number: RQ-2017-11-27-25
 Black, Caney, Chicke, Ward, Wakulla
 Customer: WAS-SECT
 Project ID: SMP

Requester: Curtis Musson
 Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Curtis Musson
 Sampling Agency: FDEP

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Caney Creek
 Upstream of
 US 90

Field ID →
 Caney Creek
 Upstream of
 US 90

Nov 28, 2017

STORET ↓

 GIWA00014

Wards Creek
 upstream of
 bridge at CR 259

Field ID →
 Wards Creek upstream
 of bridge at CR 259

Nov 28, 2017

STORET ↓

 GIWA00002

Caney Creek
 Downstream
 of 158A

Field ID →
 Caney Creek
 Downstream
 of 158A

Nov 28, 2017

STORET ↓

 GIWA00000

Comp	Grab	Collection (comp begin or grab)	Date	Time	Matrix (Salt, Fresh)	Diss. Oxygen (mg/L)	pH	Sample Depts (m)	Sp. Conductance (umho/cm)	Bottle Group(s)
☐	☒	11/28/17	1110	1241	Fresh	7.37	0.1	98	A, B, C D, E	
Temp (C) Salinity (ppt) Latitude (Decimal Degrees) Longitude (Decimal Degrees)										
☐	☒	11/28/17	1140	2.97	Fresh	5.70	0.15	42	A, C D, D E	
Temp (C) Salinity (ppt) Latitude (Decimal Degrees) Longitude (Decimal Degrees)										
☐	☒	11/28/17	1255	11.82	Fresh	7.16	0.1	106	A, B, C D, E	
Temp (C) Salinity (ppt) Latitude (Decimal Degrees) Longitude (Decimal Degrees)										

Relinquished By: Curtis Musson

Date/Time: 11/28/17

Number of Coolers: 3

Received By: [Signature]

Date/Time: 11/28/17 1355

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: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
ECOLI-18QT					
Group: D	Bottle Type: BG-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
W-AHERB-AA W-SUC-AA-R W-UHERB-AA					
Group: E	Bottle Type: QPCR-P-250ML	# of Bottles: 10	Preservative: ICE	Enter Number of Bottles Sent to Lab	10
PCR-BACR PCR-GFD PCR-HF183					

Cooler Packing Worksheet for Request: RQ-2017-11-27-25

Black, Caney, Ward, Chicken, Wakulla

Ship Cooler On: 11/21/2017

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: Freshwater Kit

Group B: Metals

Group C: ECOLI

Group D: Tracers (AHERB Short List)

Group E: PCR

Requested Analyses:

Bottle Group: A

of Sites: 5

Container ID: P-1L

Qty: 5 Preservation: ICE

Lot # DCN69122

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 # 1214297

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 # 00009255

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 # 00068595

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 # 00009255

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: 5

Container ID: P-250ML-WO-THI

Qty: 5 Preservation: ICE

Lot # 017048

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: D

of Sites: 5

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # DD069348

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: 5

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # DD067801

Description:

Analysis

PCR-BACR

PCR-GFD

PCR-HF183

Description

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

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

Cooler Packed By: J.A.

Number of Coolers: 3

Date: 11/21/17

Kit must also include:

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

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2017-11-27-25