



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

January 2018

WIN Station Name: Black Creek upstream of Bloxham Cutoff

Date: 1/18/18

(mm/dd/yyyy)

WIN/ Field ID: G1WA0023

WBID: 1054

Latitude: 30.27792

(Decimal Degrees)

County: Wakulla

ORG ID: 21FLWQA

Longitude: -84.3858

(Decimal Degrees)

Receiving Body of Water: Wakulla River

RQ-2018- 01-15-28

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

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

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

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded		Meter ID# Biology #2	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	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPTH)	Sp COND (µmhos/cm)	Temp. (C°)
EST	805	0.35	0.2	VOB	4.7	12.34	4.87	0.02	36	4.27
CEN					12.34	94.7				

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	723530	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-CI-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			

Contains 1.1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Place Pres

Notes:

Kit-A, Bacteria

WIN ID / Field ID

31WA0023

Location ↓

Black Creek
upstream of
Bloxham Cutoff

Signature:

Date:

1-18-18

Enter Field Parameters, Verify Station ID in LIMS DMT:

2/20/18

QC Station ID, Field Parameters in LIMS DMT:

Cn 4.9.18

Scan/Save Field Sheets

Cn 4.9.18

Migrate Data to WIN:

Verify Data in WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

Blair, Freeman, Jnprr, Quincy, Ochlocknee R.

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: Dp#2 RQ: 2018-01-15-28 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	1-18-18	708	17.25	9.625	9.62	100.0	49		P/F	L/F
ICV	Curtis Mussen	1-18-18	709	17.24	9.625	9.63	100.1	49		P/F	L/F
CCV	Curtis Mussen	1-18-18	1516	15.7	9.934	10.13	106.9	48		P/F	L/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 Mussen	1-18-18	710	171005D	12/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1-18-18	711	171005D	10/2018	999 1000	999	P/F	L/F
CCV	Curtis Mussen	1-18-18	1519	171005E	10/2018	100	100	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	1-18-18	714	170614B	12/2018	7.0	7.00	10.5	P/F	L/F
Calibr.	Curtis Mussen	1-18-18	715	171005A	10/2018	4.01	4.01	123	P/F	L/F
Calibr.	Curtis Mussen	1-18-18	717	171005C	04/2019	10.01	9.99	148	P/F	L/F
ICV	Curtis Mussen	1-18-18	718	171005C	04/2019	10.01	9.99	148	P/F	L/F
CCV	Curtis Mussen	1-18-18	1521	171005A	10/2018	4.01	4.06	171	P/F	L/F
CCV									P/F	L/F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 $\pm$ 50;

mV pH 4 Range +180 $\pm$ 50;

mV pH 10 Range -180 $\pm$ 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 CA	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Mussen	1-18-18	712	0.000	0.000	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
Central Laboratory Submittal Form**

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson / Ben Ralys

Field Report Prepared By: Curtis Musson

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	1405	1405	1405	1405	1405	1405	1405	A,B,C
WIN/STORET #	Upstream of US 90	G1WA0068							E
Latitude		dd	dms	dd	dms	dd	dms	dd	dms
Longitude		dd	dms	dd	dms	dd	dms	dd	dms
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	13:20	13:20	13:20	13:20	13:20	13:20	13:20	B,E
WIN/STORET #	Upstream of Tower Rd	G1WA0069							
Latitude		dd	dms	dd	dms	dd	dms	dd	dms
Longitude		dd	dms	dd	dms	dd	dms	dd	dms
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	1308	1308	1308	1308	1308	1308	1308	B,E
WIN/STORET #	Downstream of Tower Rd	G1WA0070							
Latitude		dd	dms	dd	dms	dd	dms	dd	dms
Longitude		dd	dms	dd	dms	dd	dms	dd	dms
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	11818	11818	11818	11818	11818	11818	11818	B,E
WIN/STORET #	Upstream of Old Brainbridge	G1WA0071							
Latitude		dd	dms	dd	dms	dd	dms	dd	dms
Longitude		dd	dms	dd	dms	dd	dms	dd	dms

Relinquished By: Curtis Musson	Date/Time: 1-18-18	Shipping Method: DRP OFF	Number of Coolers Shipped: 5	Received By: [Signature]	Date/Time: 1-18-18
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

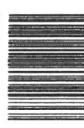
Field Report Prepared By: Curtis Musson

Project ID: SMP

Collected By: Curtis Musson

Ben Ralys

Sampling Agency: FDEP

Location	WIN ID / Field ID	Comp Grab	Collection (comp begin or grab) Date	Time	Eastern Central	Composite end Date	Bottle Group(s) (See pg 2)
Quincy Creek upstream of SR 268	 GIWA0051	☒ Matrix (type, e.g., Salt, Fresh, etc.)	1-18-18	10:00	☒ mg/L Total Res. Chlorine	70	A1B
Latitude	dd dms	dd dms	Temp (C)	3.73	pH	0.2	C.D
Longitude	dd dms	Salinity (ppt)	0.03	Comments			
Quincy Creek upstream of SR 65	 GIWA0049	☒ Matrix (type, e.g., Salt, Fresh, etc.)	1-18-18	10:55	☒ mg/L Total Res. Chlorine	63	A.B
Latitude	dd dms	dd dms	Temp (C)	4.74	pH	0.15	C.D
Longitude	dd dms	Salinity (ppt)	0.03	Comments			
Quincy Creek 100 meters upstream of Ralph Strong Rd.	 GIWA0018	☒ Matrix (type, e.g., Salt, Fresh, etc.)	1-18-18	11:20	☒ mg/L Total Res. Chlorine	66	A.B
Latitude	dd dms	dd dms	Temp (C)	4.55	pH	0.25	C.D
Longitude	dd dms	Salinity (ppt)	0.03	Comments			

Relinquished By: Curtis Musson	Date/Time: 1-18-18 / 253	Shipping Method: Drop off	Number of Coolers Shipped: 5	Received By: [Signature]	Date/Time: 1-18-18 / 254
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT
Project ID: SMP

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

Field Report Prepared By: Curtis Musson
Sampling Agency: FDEP

Location WIN ID / Field ID Field ID WIN/STORET # Latitude Longitude	Location Black Creek upstream of Bloxxham Cutoff Fresh Temp (C) Salinity (ppt)	Collection (comp begin or grab) Date Time Matrix (type, e.g., Salt, Fresh, etc) pH Sample Depth Diss. Oxygen Total Res. Chlorine	Eastern Composite end Date Time mg/L % sat ft umho/cm	Bottle Group(s) (See pg 2)
		1-18-18 805 94.7 0.2 36 A,C		
Location WIN ID / Field ID Field ID WIN/STORET # Latitude Longitude	Location Freeman Creek upstream of SR 267 (Bloxxham Cutoff) Fresh Temp (C) Salinity (ppt)	Collection (comp begin or grab) Date Time Matrix (type, e.g., Salt, Fresh, etc) pH Sample Depth Diss. Oxygen Total Res. Chlorine	Eastern Composite end Date Time mg/L % sat ft umho/cm	Bottle Group(s) (See pg 2)
		1-18-18 840 91.2 0.1 27 A,B,C		
Location WIN ID / Field ID Field ID WIN/STORET # Latitude Longitude	Location Juniper Creek Upstream of Juniper Creek Rd. Fresh Temp (C) Salinity (ppt)	Collection (comp begin or grab) Date Time Matrix (type, e.g., Salt, Fresh, etc) pH Sample Depth Diss. Oxygen Total Res. Chlorine	Eastern Composite end Date Time mg/L % sat ft umho/cm	Bottle Group(s) (See pg 2)
		1-18-18 922 87.8 0.3 86 C,D		
Location WIN ID / Field ID Field ID WIN/STORET # Latitude Longitude	Location Quincy Creek upstream of SR 267 Fresh Temp (C) Salinity (ppt)	Collection (comp begin or grab) Date Time Matrix (type, e.g., Salt, Fresh, etc) pH Sample Depth Diss. Oxygen Total Res. Chlorine	Eastern Composite end Date Time mg/L % sat ft umho/cm	Bottle Group(s) (See pg 2)
		1-18-18 10:30 101.6 0.2 57 A,B C,D		

Relinquished By: <u>Curtis Musson</u>	Date/Time: <u>1-18-18</u>	Shipping Method: <u>Drop off</u>	Number of Coolers Shipped: <u>5</u>	Received By: <u>[Signature]</u>	Date/Time: <u>1-18-18</u>
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Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 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: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

175 421

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

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

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

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

Cooler Packed By: KK

Number of Coolers: 4

Date: 1/11/18

Kit must also include:

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

If Preservation Included:

ID	<u>Nitric Acid</u>	Exp	<u>12/7/18</u>	Lot #	<u>NA 7341010</u>
ID	<u>Sulfuric Acid</u>	Exp	<u>12/7/18</u>	Lot #	<u>SA 7341020</u>
ID		Exp		Lot #	
ID		Exp		Lot #	
ID		Exp		Lot #	

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Container ID: QPCR-P-250ML

Qty: 10 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

PCR-HF183

Description

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

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHB-AA-R

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

Cooler Packed By: KK Number of Coolers: 4 Date: 1/11/18

Kit must also include:

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

If Preservation Included:

ID <u>Nitric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>NA 7341010</u>
ID <u>Sulfuric Acid</u>	Exp <u>12/7/18</u>	Lot # <u>SA 7341020</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-15-28

Cooler Packing Worksheet for Request: RQ-2018-01-15-28

Black, Freeman, Ochlockonee, Quincy, Juniper

Ship Cooler On: 1/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: KLUG_K

Requester: Curtis Musson

Priority: 3

850-245-8453

2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

Group A: Freshwater Nutrient

Group B: Metals

Group C: E. coli

Group D: Wastewater Tracers (AHERB Short List), & PCR

Group E: Alkalinity 1-liter bottle

1 - case sulfuric acid

1 - case nitric acid

No FedEx labels

No Trash Bag

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 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: 7 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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