



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

Location/STORET Station Name: Chicken Branch at Old Plank Rd

Date: 1/9/2018

(mm/dd/yyyy)

STORET # G1WA0031

WBID: 971

Latitude: 30.3261

(Decimal Degrees)

County: Leon

RQ - 2018-01-01-22

ORG ID: 21FLWQA

Longitude: -84.1481

(Decimal Degrees)

Receiving Body of Water: St. Marks River

Field ID: G1WA0031

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

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# 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	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:45	0.3	0.4	10.05	73.4	7.13	0.15	VOB	320	2.28
CEN										

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	7233030	8/24/18	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	10827054		
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-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 Preserve

Notes: Kit-A, Bacteria, Tracers, Markers

STORET Field/WIN ID →

Chicken Branch
at Old Plank Rd



G1WA0031

Signature:

Date:

1-4-2018

Enter Field Parameters, Verify Station ID in LIMS:

(Initials/Date)

QC Station ID, Field Parameters in LIMS:

(Initials/Date)

Migrate Data To WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

Scan/Save Field Sheets:

(Initials/Date)

Bunt Mill, Central D. Ditch

Black, Chicken

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:

Bio 2

RQ:

2018-01-01-22

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	1/4/18	707	19.16	9.239	9.25	100.0	56	-	☒ F	☒ F
ICV	Curtis Mussen	1/4/18	709	19.15	9.258	9.25	100.0	56	-	☒ F	☒ F
CCV	Curtis Mussen	1-4-18	1434	9.21	9.239	9.26	100.2	55	-	☒ 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 Mussen	1/4/18	710	17100SD	10/2018	1000	1000	☒ F	☒ F
ICV	Curtis Mussen	1/4/18	711	17100SD	10/2018	1000	1001	☒ F	☒ F
CCV	Curtis Mussen	1/4/18	1435	17100SE	10/2018	100	102	☒ 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 Mussen	1/4/18	714	170614B	12/2018	7.0	7.00	29	☒ F	☒ F
Calibr.	Curtis Mussen	1/4/18	715	17100SA	10/2018	4.01	4.01	190	P / F	L / F
Calibr.	Curtis Mussen	1/4/18	717	17100SC	4/2019	10.01	9.97	-123	☒ F	☒ F
ICV	Curtis Mussen	1/4/18	719	17100SA	10/2018	4.01	4.01	189	☒ F	☒ F
CCV	Curtis Mussen	1/4/18	1436	17100SC	4/2019	10.01	10.13	-131	☒ 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 Mussen	1/4/18	722	0.00	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 Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Ralys

Field Report Prepared By: Ben Ralys, Curtis Musson

Sampling Agency: FDEP

Location		STORET/Field/WIN ID →		Barcode: G1WA0020		STREET/Field/WIN ID →		Barcode: G1WA0023		STREET/Field/WIN ID →		Barcode: G1WA0031		STREET/Field/WIN ID →		Barcode: G1WA0037	
Field ID	30.4095	Central Drainage Ditch	Downstream of Orange Ave.	Field ID	30.27792	Black Creek upstream of Bloxham Cutoff	Field ID	30.3261	Chicken Branch at Old Plank Rd	Field ID	30.40952	Burnt Mill Creek Upstream of US 27	Field ID	30.40952	Burnt Mill Creek Upstream of US 27	Field ID	30.40952
Latitude	30.4095	Longitude	-84.3073	Latitude	30.27792	Longitude	-84.3858	Latitude	30.3261	Longitude	-84.1481	Latitude	30.40952	Longitude	-84.063343	Latitude	30.40952
Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Matrix (type, e.g., Salt, Fresh, etc)		Fresh		Matrix (type, e.g., Salt, Fresh, etc)	
Temp (C)	4.04	pH	6.73	Temp (C)	3.80	pH	6.13	Temp (C)	2.28	pH	7.13	Temp (C)	4.42	pH	6.87	Temp (C)	4.42
Salinity (ppt)	0.09	Comments		Salinity (ppt)	0.02	Comments		Salinity (ppt)	0.15	Comments		Salinity (ppt)	0.03	Comments	SCI	Salinity (ppt)	0.03
Collection (comp begin or grab)		Date 1/4/2018 Time 7:55		Collection (comp begin or grab)		Date 1/4/2018 Time 8:50		Collection (comp begin or grab)		Date 1/4/2018 Time 9:45		Collection (comp begin or grab)		Date 1/4/2018 Time 10:25		Collection (comp begin or grab)	
Diss. Oxygen		11.22		Diss. Oxygen		12.39		Diss. Oxygen		10.05		Diss. Oxygen		12.78		Diss. Oxygen	
Sample Depth		0.15		Sample Depth		0.6		Sample Depth		0.3		Sample Depth		0.2		Sample Depth	
Sp. Conductance (umho/cm)		186		Sp. Conductance (umho/cm)		44		Sp. Conductance (umho/cm)		320		Sp. Conductance (umho/cm)		320		Sp. Conductance (umho/cm)	
Composite end Date		—		Composite end Date		—		Composite end Date		—		Composite end Date		—		Composite end Date	
Bottle Group(s) (See pg 2)		A, B, E		Bottle Group(s) (See pg 2)		A, C		Bottle Group(s) (See pg 2)		A, C, D, E		Bottle Group(s) (See pg 2)		A, C, G, H		Bottle Group(s) (See pg 2)	

Relinquished By: Curtis Musson

Date/Time: 1-4-2018/12:59

Shipping Method: Droppoff

Number of Coolers Shipped: 2 cooler / 3 SEC Jugs

Received By: Tyler Ray

Date/Time: 01/04/18

1.56pm

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

Group: F	Bottle Type: W-GLYPH W-PYR-AA-R W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
Group: F	Bottle Type: W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: F	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: G	Bottle Type: MI-FW-QLDC	PJ-2L	# of Bottles: 2	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	2
Group: H	Bottle Type: ALGAL_ID	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1

Cooler Packing Worksheet for Request: RQ-2018-01-01-22

Burnt Mill,Chicken, Black, Central Ditch

Ship Cooler On: 12/18/2017

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: Nutrients, CHLA, Physical Aggregates

Group B: Metals

Group C: Microbiology (E.coli)

Group D: Organics (Wastewater Tracers) AHERB Shortlist

Group E: PCR (Wastewater Markers)

Group F: Pesticides

Group G: SCI

Group H: Algal ID

Packing Notes:

1 - case of sulfuric acid

1 - case of nitric acid

No FedEx labels

Requested Analyses:

Bottle Group: A

of Sites: 4

Container ID: P-1L

Qty: 4 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: 4 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: 4 Preservation: ICE And H2SO4

Lot # 55069255

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: 4 Preservation: FILTER-ICE

Lot # 55068595

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-500ML

Qty: 1 Preservation: HNO3

Lot # 55069255

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: 4

Container ID: P-250ML-WO-THI

Qty: 4 Preservation: ICE

Lot # 117048

Description:

Analysis

Description

Bottle Group: D**# of Sites: 1**

Container ID: BG-1L

Qty: 1

Preservation: ICE

Lot # 55069348

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: 2**

Container ID: QPCR-P-250ML

Qty: 4

Preservation: ICE

Lot # 55067801

Description:

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

Bottle Group: F**# of Sites: 1**

Container ID: BG-1L

Qty: 2

Preservation: ICE

Lot # 55069348

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-GLYPH

W-PYR-AA-R

W-SUC-AA-R

W-UHERB-AA

Description

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

Glyphosate in water matrices by HPLC/MS/MS

Pyraclostrobin 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

Container ID: BG-500ML

Qty: 4

Preservation: ICE

Lot # 55067841

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 55069348

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Bottle Group: G

of Sites: 1

Container ID: PJ-2L

Qty: 2 Preservation: Formalin

Lot # Browns

Description: Plastic Jar 2 L

Analysis

MI-FW-QLDC

Description

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

Bottle Group: H

of Sites: 1

Container ID: PT-50ML

Qty: 1 Preservation: ICE

Lot # 03775003

Description: Plastic Tube 50 mL

Analysis

ALGAL_ID

Description

Qualitative assessment of algal taxa present without counts

Cooler Packed By: ABJ

Number of Coolers: 3

Date: 12-19-17

Kit must also include:

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

If Preservation Included:

ID <u>H2504 1-1</u>	Exp <u>10-2-18</u>	Lot # <u>SA7275016</u>
ID <u>4N-31-1</u>	Exp <u>09-18-18</u>	Lot # <u>NA7261120</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-01-01-22