



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Megginis Arm Run Downstream of Sharer

Date: 1/31/2018

WIN/ Field ID: G1WA0033

WBID: 809A

Latitude: 30.4804

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.2982

(Decimal Degrees)

Receiving Body of Water: Lake Jackson

RQ-2018- 01-29-33

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Will Lasley							X			
Curtis Musson						X		X	X	X

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☒ Syringe		
☐ Dipper	☐ Other		
Depth Measured with <u>meter stick</u>			
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 (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	9:25	<u>0.1</u>	<u>0.05</u>	<u>1.0</u>	<u>10.7</u>	<u>90.7</u>	<u>7.27</u>	<u>0.07</u>	<u>141</u>	<u>7.44</u>
CEN		<u>0.2</u>	<u>0.1</u>							

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	<u>7275010</u>	<u>12/2/18</u>	<u>1</u> <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
Chlorophyll	☒ CHL-SUITE-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-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.: SA 7275010
Expires: 10/02/18
See Safety Data Sheet (SDS)

Contains: 1.1 Sulfuric Acid
Lot No.: SA 7275010
Expires: 10/02/18
See Safety Data Sheet (SDS)

Notes:

Kit-A,
e.coli
Tracers,
PCR-FILTER

Megginis Arm Run
Downstream of Sharer

WIN ID/Field ID



G1WA0033

Signature:

Curtis Musson

Date:

1-31-2018

Enter Field Parameters, Verify Station ID In LIMS DMT:

2/20/18

QC Station ID, Field Parameters In LIMS DMT:

Cm 4/10/18

Scan/Save Field Sheets

Cm 4/10/18

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

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- 2018-01-29-33 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	1/31/18	714	19.15	9.239	9.25	100.0	46	-	P/F	L/F
ICV	Curtis Mussen	1/31/18	715	19.15	9.239	9.25	100.0	46	-	P/F	L/F
CCV	Curtis Mussen	1-31-18	1351	19.5	9.25	9.25	100.7	46	-	P/F	L/F
CCV					9.154					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	1/31/18	717	171005D	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1/31/18	717	171005D	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	1-31-18	1353	171005E	10/2018	100	101	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	1-31-18	720	170614B	12/2018	7.0	7.00	19	P/F	L/F
Calibr.	Curtis Mussen	1-31-18	721	171005A	10/2018	4.01	4.01	185	P/F	L/F
Calibr.	Curtis Mussen	1-31-18	723	171005C	4/2019	10.01	9.98	-140	P/F	L/F
ICV	Curtis Mussen	1-31-18	725	171005A	10/2018	4.01	4.01	184	P/F	L/F
CCV	Curtis Mussen	1-31-18	1354	171005C	4/2019	10.01	10.00	-144	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	1-31-18	718	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
Central Laboratory Submittal Form

Requester: Curtis Musson

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Collected By: Curtis Musson, Will Lasley

Curtis Mussen
FDIP

Caney Creek										WIN ID/Field ID		Collected By: <u>Curtis Mussen, Will Lasley</u>		Sampling Agency: <u>FDDEP</u>		Curtis Mussen			
Upstream of US 9C										WIN/STORET #		Barcode		GTWAA0014					
STORET, FILED/WIN ID →										Black Creek		Barcode		GTWAA0072					
Upstream of CR158										WIN/STORET #		Barcode		GTWAA0072					
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.04		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.03		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1210		AB	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.02		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)		Date		Time		Bottle Group(s)	
WIN/STORET #										Matrix (type, e.g., Salt, Fresh, etc)		Fresh		1-31-18		1135		ABC	
Latitude										☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Temp (C)		pH	
Location										☐ dd ☐ dms		Salinity (ppt)		0.01		Comments			
Field ID										☐ Comp ☐ Grab		Collection (comp begin or grab)							

Request Number: RQ-2018-01-29-33

Black, Wards, Caney, Harbinwood, Little R., Megginis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

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last revised Jan 3, 2018

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By:

Sampling Agency:

Curtis Musson
FDEP

Location	Field ID	WIN ID/Field ID	☐ Comp ☒ Grab	Collection Date	Collection (comp begin or grab) Time	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Little River 100 meters upstream of US 90	WINSTORET #	100 meters upstream of US 90	Matrix (type, e.g., Salt, Fresh, etc)	1-31-2018	835	835	1-31-2018	1100	A, B, C, D
Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Diss. Oxygen	Sample Depth	% sat	Total Res. Chlorine	Sp. Conductance (umho/cm)
		9.70	6.89	0.04	9.25	0.1	141	43	43
Location	Field ID	WIN ID/Field ID	☐ Comp ☒ Grab	Collection Date	Collection (comp begin or grab) Time	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Megginis Arm Run Downstream of Sharefarm	WINSTORET #	Downstream of Sharefarm	Matrix (type, e.g., Salt, Fresh, etc)	1-31-2018	925	925	1-31-2018	1100	A, B, C, D
Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Diss. Oxygen	Sample Depth	% sat	Total Res. Chlorine	Sp. Conductance (umho/cm)
		7.44	7.27	0.07	9.07	0.1	141	43	43
Location	Field ID	WIN ID/Field ID	☐ Comp ☒ Grab	Collection Date	Collection (comp begin or grab) Time	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Harbinwood Estates Drain	WINSTORET #	Estates Drain	Matrix (type, e.g., Salt, Fresh, etc)	1-31-2018	1000	1000	1-31-2018	1100	A, B, C, D
Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Diss. Oxygen	Sample Depth	% sat	Total Res. Chlorine	Sp. Conductance (umho/cm)
		9.94	7.65	0.06	8.73	0.1	133	43	43
Location	Field ID	WIN ID/Field ID	☐ Comp ☒ Grab	Collection Date	Collection (comp begin or grab) Time	☒ Eastern ☐ Central	Composite end Date	Time	Bottle Group(s)
Ward's Creek upstream of bridge at CR 259	WINSTORET #	upstream of bridge at CR 259	Matrix (type, e.g., Salt, Fresh, etc)	1-31-2018	1100	1100	1-31-2018	1100	A, B, C, D
Latitude	Longitude	Temp (C)	pH	Salinity (ppt)	Diss. Oxygen	Sample Depth	% sat	Total Res. Chlorine	Sp. Conductance (umho/cm)
		6.99	5.78	0.02	27.7	0.2	43	43	43

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Curtis Musson 1-31-18 / 1331 DEP OFF 3 1-31-18 / 1331

Group: F	Bottle Type: QPCR-P-250ML	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab
	PCR-HF183			2
Group: G	Bottle Type: QPCR-P-250ML	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab
	PCR-FILTER			8

Cooler Packing Worksheet for Request: RQ-2018-01-29-33

Black, Wards, Caney, Harbiwood, Little R., Meginis

Ship Cooler On: 1/26/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON_C

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: E. coli

Group D: Tracers (AHERB Short List)

Group E: PCR_FILTER, HF183

Group F: HF183, BacR

Group G: PCR-filter

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00069741

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: 6 Preservation: ICE

Lot # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00069911

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 # 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

Bottle Group: F

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 Preservation: ICE

Lot # 00067460

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-BACR

PCR-HF183

Description

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

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

Bottle Group: G

of Sites: 4

Container ID: QPCR-P-250ML

Qty: 8 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis