



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?
Yes / No

January 2018

WIN Station Name: Ochlockonee River Upstream of Tower Rd Date: 1/17/18
WIN/ Field ID: G1WA0069 WBID: 1297E Latitude: 30.52967
County: Leon ORG ID: 21FLWQA Longitude: -84.38896
Receiving Body of Water: Gulf of Mexico RQ-2018- 01-15-28

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

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>SONAR</u>		
Equipment ID		
Collection Method		
☐ Wading	☐ Canoe/Kayak	
☐ From Shore	☐ Electric Motor	
☐ Other	☒ Gasoline Motor	

Water Level: Dry/ Pooled/ <u>Low</u> / Normal / High / Flooded		Meter ID# <u>Biology #2</u>	Matrix: <u>Fresh</u> / Marine / DI							
Photos: <u>Yes</u> / No	Flow: No Flow / Intestinal / <u>Flowing</u> / NA	Tide: Rising/ Falling/ Slack/ <u>NA</u>	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 (umhos/cm)	Temp. (C°)
<u>EST</u>	<u>1:20</u>	<u>2.6</u>	<u>0.3</u>	<u>1.0</u>	<u>11.94</u>	<u>99.1</u>	<u>7.42</u>	<u>0.06</u>	<u>124</u>	<u>7.30</u>
CEN			<u>2.1</u>		<u>11.87</u>	<u>89.6</u>	<u>7.39</u>	<u>0.06</u>	<u>124</u>	<u>7.31</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>EST</u> <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>726 1/20</u>	<u>9/16/18</u>	<u>EST</u> <2
Filtered Nutrients	☐ W-PO4-F ☐ Field Filtered 0.45 um 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
Nitric Acid
NA-7261120
EXP: 09/18/18
See SDS

Notes:

KIT-C, Bacteria
Metals, Alk

WIN ID / FIELD ID

Ochlockonee River
Upstream of Tower Rd



G1WA0069

Signature: [Signature] Date: 1/18-18

Enter Field Parameters, Verify Station ID In LIMS DMT: 2/21/17 QC Station ID, Field Parameters In LIMS DMT: 4.9.18

Scan/Save Field Sheets 4.9.18 Migrate Data to WIN: 4.9.18 Verify Data In WIN: 4.9.18

Blaine, Freeman, Jasper, 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 Musson	1-18-18	708	17.25	9.625	9.62	100.0	49		P/F	L/F
ICV	Curtis Musson	1-18-18	709	17.24	9.625	9.63	100.1	49		P/F	L/F
CCV	Curtis Musson	1-18-18	1516	15.7	9.934	10.13	101.9	45		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 Musson	1-18-18	710	171005D	12/2018	1000	1000	P/F	L/F
ICV	Curtis Musson	1-18-18	711	171005D	10/2018	999 1000	999	P/F	L/F
CCV	Curtis Musson	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 Musson	1-18-18	714	170614B	12/2018	7.0	7.00	10.5	P/F	L/F
Calibr.	Curtis Musson	1-18-18	715	171005A	10/2018	4.01	4.01	123	P/F	L/F
Calibr.	Curtis Musson	1-18-18	717	171005C	04/2019	10.01	9.99	148	P/F	L/F
ICV	Curtis Musson	1-18-18	718	171005C	04/2019	10.01	9.99	148	P/F	L/F
CCV	Curtis Musson	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 ± 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 CM	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	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	Date 1-18-18		Time 14:05		Date		Time	
WIN/STORET #	Upstream of US 90	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine		(See pg 2)	
Latitude		Temp (C) 8.08		pH 7.23		ft		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt) 0.05		Comments		m		116	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	Date 1-18-18		Time 13:20		Date		Time	
WIN/STORET #	Upstream of Tower Rd	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine		(See pg 2)	
Latitude		Temp (C) 7.30		pH 7.42		ft		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt) 0.06		Comments		m		124	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	Date 1-18-18		Time 13:08		Date		Time	
WIN/STORET #	Downstream of Tower Rd	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine		(See pg 2)	
Latitude		Temp (C) 7.36		pH 7.33		ft		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt) 0.06		Comments		m		123	
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlockonee River	Date 1-18-18		Time 1-18-18		Date		Time	
WIN/STORET #	Upstream of Old Brainbridge	Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L Total Res. Chlorine		(See pg 2)	
Latitude		Temp (C) 7.36		pH 7.45		ft		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt) 0.06		Comments		m		127	

Relinquished By: Curtis Musson	Date/Time: 1-18-18	Shipping Method: Drop 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		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Quincy Creek	WIN ID / Field ID	10:00	Matrix (type, e.g., Salt, Fresh, etc)	10:00	Diss. Oxygen	Total Res. Chlorine	(See pg 2)	
WIN/STORET #	SR 268	GIWA0051		Temp (C)	6.98	pH	Sp. Conductance (umho/cm)	A-B	
Latitude				Salinity (ppt)	0.03	Sample Depth	70	C-D	
Location		WIN ID / Filed ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Quincy Creek	WIN ID / Filed ID	10:55	Matrix (type, e.g., Salt, Fresh, etc)	10:55	Diss. Oxygen	Total Res. Chlorine	A-B	
WIN/STORET #	SR 65	GIWA0049		Temp (C)	7.12	pH	Sp. Conductance (umho/cm)	C-D	
Latitude				Salinity (ppt)	0.03	Sample Depth	63		
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Quincy Creek	WIN ID / FIELD ID	11:20	Matrix (type, e.g., Salt, Fresh, etc)	11:20	Diss. Oxygen	Total Res. Chlorine	A-B	
WIN/STORET #	100 meters upstream of Ralph Strong Rd.	GIWA0018		Temp (C)	7.25	pH	Sp. Conductance (umho/cm)	C-D	
Latitude				Salinity (ppt)	0.03	Sample Depth	66		
Location		WIN/STORET #		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	Total Res. Chlorine		
WIN/STORET #				Temp (C)		pH	Sp. Conductance (umho/cm)		
Latitude				Salinity (ppt)		Sample Depth			

Relinquished By: Curtis Musson	Date/Time: 1-18-18 / 2:53	Shipping Method: Drop off	Number of Coolers Shipped: 5	Received By: [Signature]	Date/Time: 1-18-18 / 2:54
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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 #		Location Black Creek upstream of Bloxxham Cutoff		Collection (comp begin or grab) Date 1-18-18 Time 805		Composite end Date Time		Bottle Group(s) (See pg 2)	
Latitude dd dms Longitude dd dms		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 94.7		Total Res. Chlorine (mg/L)		A,C	
Temp (C) 4.27		pH 4.87		Sample Depth 0.2		Sp. Conductance (umho/cm)		36	
Salinity (ppt) 0.02		Comments							
Location WIN ID / Field ID Field ID WIN/STORET #		Location Freeman Creek upstream of SR 267 (Bloxxham Cutoff)		Collection (comp begin or grab) Date 1-18-18 Time 840		Composite end Date Time		Bottle Group(s)	
Latitude dd dms Longitude dd dms		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 91.2		Total Res. Chlorine (mg/L)		A,B,C	
Temp (C) 5.19		pH 4.85		Sample Depth 0.1		Sp. Conductance (umho/cm)		27	
Salinity (ppt) 0.01		Comments							
Location WIN ID / Field ID Field ID WIN/STORET #		Location Juniper Creek Upstream of Juniper Creek Rd.		Collection (comp begin or grab) Date 1-18-18 Time 922		Composite end Date Time		Bottle Group(s)	
Latitude dd dms Longitude dd dms		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 87.8		Total Res. Chlorine (mg/L)		C,D	
Temp (C) 3.77		pH 6.08		Sample Depth 0.3		Sp. Conductance (umho/cm)		86	
Salinity (ppt) 0.04		Comments							
Location WIN ID / Field ID Field ID WIN/STORET #		Location Quincy Creek upstream of SR 267		Collection (comp begin or grab) Date 1-18-18 Time 10:30		Composite end Date Time		Bottle Group(s)	
Latitude dd dms Longitude dd dms		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 101.6		Total Res. Chlorine (mg/L)		A,B	
Temp (C) 5.18		pH 7.08		Sample Depth 0.2		Sp. Conductance (umho/cm)		C,D	
Salinity (ppt) 0.03		Comments							

Relinquished By: Curtis Musson	Date/Time: 1-18-18	Shipping Method: Drop off	Number of Coolers Shipped: 5	Received By: [Signature]	Date/Time: 1-18-18/254
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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

1214297

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