FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified? Yes / No — pH

WIN Station Name: Caney Creek Upstream of US 90 **Date:** 3/15/2018 (mm/dd/yyyy)

WIN/ Field ID: G1WA0014 **WBID:** 716 **Latitude:** 30.5325 (Decimal Degrees)

County: Jefferson **ORG ID:** 21FLWQA **Longitude:** -83.9501 (Decimal Degrees)

Receiving Body of Water: Lake Miccosukee **RQ-2018-** 03-12-53

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys		✓	✓		
Phil Homann	✓			✓	✓

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 / Intestital / (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)	900	0.2	0.1	V.OB	11.95	102.2	6.69	0.04	89	8.50
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#: 1975290

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☑ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☑ Ice ☑ H_2SO_4	SA7341020	12/7/18	☑ <2
Metals	☑ W-ICPMS ☑ W-ICP	☑ Ice ☑ HNO_3	7261120	9/18/18	☑ <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-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 H2S04
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Contains 1:1 Nitric Acid LA-7261120 EXP: 09/18/18 See SDS

SULFURIC ACID <51% — THERMO FISHER SCIENTIFIC — DANGER — 7664-93-9 — 7732-18-5 — Contains: 1:1 H2S04

Notes:

group: A, B, C, D, F

Kit-C, Bacteria
Tracers, Markers
(PCR-FILTER, PCR-BacR)

Caney Creek Upstream of US 90

WIN ID/Field ID
G1WA0014

Signature: **Date:** 3/16/18

Enter Field Parameters, Verify Station ID In LIMS DMT: PA 4/11/18 (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: 4/11/18 (Initials/Date)

Scan/Save Field Sheets CM 4/20 (Initials/Date) Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (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 page. PH

Meter ID: Biology #2 RQ- 2018-03-12-53 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.	Ben Ralys	3/15/18	7:11	19.50	9.15	9.18	100.0	52.3	-	(P) / F	(L) / F
ICV	Ben Ralys	3/15/18	7:12	19.50	9.15	9.18	100.0	52.3	-	(P) / F	(L) / F
CCV	Ben Ralys	3/15/18	2:35	22.48	8.67	8.88	102.5	51.2	-	(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 µmhos/cm	Meter Reading µmhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	3/15/18	7:14	171005D	10/2018	1,000	1,000	(P) / F	(L) / F
ICV	Ben Ralys	3/15/18	7:14	171005D	10/2018	1,000	1,001	(P) / F	(L) / F
CCV	Ben Ralys	3/15/18	2:37	171005E	10/2018	100	99	(P) / F	(L) / F
CCV								P / F	L / F

Conductivity Acceptance criteria ± 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.	Ben Ralys	3/15/18	7:16	171005B	4/2019	7.0	7.0	1.5	(P) / F	(L) / F
Calibr.	Ben Ralys	3/15/18	7:19	171005A	10/2018	4.0	3.99	175.3	(P) / F	(L) / F
Calibr.	Ben Ralys	3/15/18	7:20	171005C	4/2019	10.0	9.98	-164.8	(P) / F	(L) / F
ICV	Ben Ralys	3/15/18	7:21	171005C	4/2019	10.0	9.97	-164.4	(P) / F	(L) / F
CCV	Ben Ralys	3/15/18	2:38	171005A	10/2018	4.0	3.67	192.7	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 ± 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						P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria ± 5 % or ± 0.05m, whichever is greater.

COMMENTS:

Request Number: RQ-2018-03-12-53

Swamp, Salem, Caney, Harbiwood, Ocklock

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Phil Homann

Field Report Prepared By: Ben Ralys, Phil Homann

Sampling Agency: FDEP

Location: Swamp Creek upstream of Railroad
Field ID:
WIN/STORET #:
WIN ID / FILED ID: G1WA0052

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 3/15/18 Time 1040 Eastern Central | Composite end Date — Time — | Bottle Group(s) (See pg 2): A, C

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 102.8 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 10.30 | pH 6.87 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 87

Latitude 30.663 ☒ dd ☐ dms | Longitude -84.448 ☒ dd ☐ dms | Salinity (ppt) 0.04 | Comments

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Location: Salem Branch downstream of SR 159
Field ID:
WIN/STORET #:
WIN ID / Field ID: G1WA0053

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 3/15/18 Time 1030 Eastern Central | Composite end Date — Time — | Bottle Group(s): C

Matrix (type, e.g., Salt, Fresh etc): Fresh | Diss. Oxygen 87.3 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 10.69 | pH 7.15 | Sample Depth 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm) 170

Latitude 30.63082 ☒ dd ☐ dms | Longitude -84.43155 ☒ dd ☐ dms | Salinity (ppt) 0.08 | Comments

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Location: Ochlockonee River Upstream of Old Brainbridge
Field ID:
WIN/STORET #:
WIN ID / FIELD ID: G1WA0071

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 3/15/18 Time 1115 Eastern Central | Composite end Date — Time — | Bottle Group(s): A, B, C

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 94.7 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 13.15 | pH 6.95 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 103

Latitude 30.5864 ☒ dd ☐ dms | Longitude -84.3571 ☒ dd ☐ dms | Salinity (ppt) 0.05 | Comments

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Location: Ochlockonee River Upstream of Tower Rd
Field ID:
WIN/STORET #:
WIN ID / FIELD ID: G1WA0069

Comp ☐ Grab ☒ | Collection (comp begin or grab) Date 3/15/18 Time 1215 Eastern Central | Composite end Date — Time — | Bottle Group(s): A, B, C

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 92.7 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 13.38 | pH 6.77 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 107

Latitude 30.52967 ☒ dd ☐ dms | Longitude -84.38896 ☒ dd ☐ dms | Salinity (ppt) 0.05 | Comments

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Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	3/15/18 2:20	Delivered	3	ABJ	3-15-18 14:20

Request Number: RQ-2018-03-12-53

Swamp, Salem, Caney, Harbiwood, Ocklock

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Ralys, Phil Homann

Field Report Prepared By: Ben Ralys, Phil Homann

Sampling Agency: FDEP

Location / Field ID / WIN/STORET #: Ochlockonee River Downstream of Tower Rd — WIN ID / FIELD ID: G1WA0070

Latitude: 30.52646 ☒dd ☐dms | Longitude: -84.38821 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 1200 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 90.9 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 13.43 | pH 6.82 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 107

Salinity (ppt) 0.05 | Comments

Bottle Group(s) (See pg 2): A, B, C

Location / Field ID / WIN/STORET #: Harbinwood Estates Drain — WIN ID/Filed ID: G1WA0034

Latitude: 30.5193 ☒dd ☐dms | Longitude: -84.3357 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 950 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 73.0 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 12.13 | pH 7.32 | Sample Depth 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm) 126

Salinity (ppt) 0.06 | Comments

Bottle Group(s): A, B, C, D, E

Location / Field ID / WIN/STORET #: Ochlockonee River Upstream of US 90 — WIN ID / FIELD ID: G1WA0068

Latitude: 30.47573 ☒dd ☐dms | Longitude: -84.40595 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 1330 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 92.8 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 14.02 | pH 6.61 | Sample Depth 0.3 ☐ ft ☒ m | Sp. Conductance (umho/cm) 112

Salinity (ppt) 0.05 | Comments

Bottle Group(s): A, B, C

Location / Field ID / WIN/STORET #: Caney Creek Upstream of US 90 — WIN ID/Field ID: G1WA0014

Latitude: 30.5325 ☒dd ☐dms | Longitude: -83.9501 ☒dd ☐dms

☐ Comp ☒ Grab | Collection (comp begin or grab) Date 3/15/18 Time 900 Eastern Central | Composite end Date — Time —

Matrix (type, e.g., Salt, Fresh, etc): Fresh | Diss. Oxygen 102.2 ☐ mg/L ☒ % sat | Total Res. Chlorine (mg/L) —

Temp (C) 8.50 | pH 6.69 | Sample Depth 0.1 ☐ ft ☒ m | Sp. Conductance (umho/cm) 89

Salinity (ppt) 0.04 | Comments

Bottle Group(s): A, B, C, D, F

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Ben Ralys	3/15/18 2120	Delivered	3	[illegible]	3-15-18 / 14:20

Group	Bottle Type		# of Bottles	Preservative		Enter Number of Bottles Sent to Lab
A	P-1L	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	7	ICE		7
A	BP-1L	CHLSUITE-W	7	ICE		7
A	P-500ML	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	7	ICE And H2SO4		7
A	P-125ML	W-PO4-F	7	FILTER-ICE		7
B	P-500ML	W-ICP W-ICPMS	6	HNO3		6
C	P-250ML-WO-THI	ECOLI-18QT	8	ICE		8
D	BG-500ML	W-E8321-DI W-E8321-MS	2	ICE		2
E	QPCR-P-250ML	PCR-FILTER	2	ICE		2
F	QPCR-P-250ML	PCR-BACR PCR-FILTER	2	ICE		2

Cooler Packing Worksheet for Request: RQ-2018-03-12-53
Swamp, Salem, Caney, Harbiwood, Ocklock
Ship Cooler On: 3/8/2018
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: Freshwater Kit
Group B: Metals
Group C: E. coli
Group D: Tracers
Group E: PCR-Filter
Group F: PCR-FILTER & PCR-BacR

Packing Notes:
No Fedex labels
No Trash Bags
2 submital forms
1 - case of Nitric Acid

Requested Analyses:

Bottle Group: A

# of Sites: 7

Container ID: P-1L **Qty: 7** **Preservation: ICE** **Lot #** 0007082498

Description: Plastic Bottle 1L

Analysis	Description
ALKALINITY	Alkalinity in aqueous matrices as mg CaCO3/L
TURBIDITY	Turbidity in aqueous matrices
W-CL-IC	Chloride in aqueous matrices
W-COLOR	True Color measured at 450 nm
W-F	Fluoride in aqueous matrices, without distillation (not valid for NPDES monitoring)
W-SO4-IC	Sulfate in aqueous matrices
W-TDS	Total Dissolved Solids in aqueous matrices
W-TSS	Total Suspended Solids in aqueous matrices

Container ID: BP-1L **Qty: 7** **Preservation: ICE** **Lot #** 2142497

Description: Brown Plastic Bottle 1L

Analysis	Description

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

Container ID: P-500ML **Qty: 7** **Preservation: ICE And H2SO4** **Lot #** 0000704440

Description: Plastic Bottle 500 mL Affix YELLOW sulfuric acid dot to container.

Analysis	Description
W-NH3	Ammonia in aqueous matrices as mg N/L
W-NO2NO3	Nitrite/Nitrate in aqueous matrices as mg N/L
W-S-A-TP	Total Phosphorus in aqueous matrices as mg P/L
W-TKN	Total Kjeldahl Nitrogen in aqueous matrices
W-TOC	Nonpurgeable Organic Carbon in aqueous matrices

Container ID: P-125ML **Qty: 7** **Preservation: FILTER-ICE** **Lot #** 0000697432

Description: Plastic Bottle 125 mL

Analysis	Description
W-PO4-F	Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: B # of Sites: 6

Container ID: P-500ML **Qty: 6** **Preservation: HNO3** **Lot #** 0000704440

Description: Plastic Bottle 500 mL Affix RED nitric acid dot to container.

Analysis	Description
W-ICP	Total Recoverable Metals analysis using ICP emission spectroscopy for aqueous samples supporting Clean Water Act Projects
W-ICPMS	Total Recoverable Metals analysis using ICP-MS for aqueous samples supporting Clean Water Act Projects

Bottle Group: C # of Sites: 8

Container ID: P-250ML-WO-THI **Qty: 8** **Preservation: ICE** **Lot #** L15269

Description:

Analysis	Description
ECOLI-18QT	Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Bottle Group: D # of Sites: 2

Container ID: BG-500ML **Qty: 2** **Preservation: ICE** **Lot #** 686622

Description: Brown Glass Bottle 500ML Affix BLUE dot to container.

Analysis	Description
W-E8321-DI	Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/MS
W-E8321-MS	Pesticides, 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 #** 69545

Description: 250ml Sterile Nalgene (2)

Analysis	Description
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

Bottle Group: F # of Sites: 1

Container ID: QPCR-P-250ML **Qty: 2** **Preservation: ICE** **Lot #** 69545

Description: 250ml Sterile Nalgene (2)

Analysis	Description
PCR-BACR	Detection and quantification of Ruminant specific Bacteroidetes BacR genetic marker with quantitative polymerase chain reaction
PCR-FILTER	Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: ABP Number of Coolers: 3 Date: 3-8-18

Kit must also include:
- ✓ Field Sheets
- ✓ Temperature Control Bottle
- X FedEx Bills, if applicable
- X Plastic Bags
- ___ Zip Ties

If Preservation Included:

ID HNO3 1.1	Exp 12-7-18	Lot # NA7341010
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #
ID	Exp	Lot #

PLEASE RETURN ALL COOLERS FOR RQ-2018-03-12-53