



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

PH

WIN Station Name: Ochlockonee River Upstream of US 90

Date: 3/15/2018

WIN/ Field ID: G1WA0068

WBID: 1297E

Latitude: 30.47573

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.40595

(Decimal Degrees)

Receiving Body of Water: Gulf of Mexico

Longitude: -84.40595

(Decimal Degrees)

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 <u>meter</u>									
Equipment ID <u>biology 02</u>									

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

Water Level: Dry / Pooled / Low / <u>Normal</u> / High / Flooded	Meter ID# <u>Biology 02</u>	Matrix: <u>Fresh</u> / Marine / DI
Photos: Yes / <u>No</u>	Flow: No Flow / Intestinal / <u>Flowing</u> / NA	Tide: Rising / Falling / Slack / <u>NA</u>
Tide Times: High		Low

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°)
<u>EST</u>	<u>1330</u>	<u>4.3</u>	<u>0.3</u>	<u>0.6</u>	<u>9.56</u>	<u>92.8</u>	<u>6.61</u>	<u>0.05</u>	<u>112</u>	<u>14.02</u>
CEN			<u>3.8</u>		<u>9.50</u>	<u>92.2</u>	<u>6.56</u>	<u>0.05</u>	<u>112</u>	<u>14.01</u>

Biological Samples Collected: <u>None</u>	HA	SCI	RPS	Algae ID	LVS	LVI	Other:
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SBIO ID Numbers:	SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#: <u>1975290</u>
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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>SA7341020</u>	<u>12/7/18</u>	☒
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	<u>7261120</u>	<u>9/18/18</u>	☒
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>10827054</u>		
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 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

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

Notes:

Kit-C,
Bacteria

group: A, B, C

WIN ID / FIELD ID

Ochlockonee River
Upstream of US 90



G1WA0068

Signature:

Ben R

Date:

3/15/18

Enter Field Parameters, Verify Station ID In LIMS DMT:

PH 4/11/18

QC Station ID, Field Parameters In LIMS DMT:

PH 4/11/18

Scan/Save Field Sheets

CN 4/20

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: Biology #2

RQ- 2018-03-12-53

Project: SMP

PH

- 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.

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 hos/cm	Meter Reading μ hos/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 $\pm 5\%$

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.	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 $+180 \pm 50$;

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						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: Ben Ralys, Phil Homann

Field Report Prepared By: Ben Ralys, Phil Homann

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date	Time	Date	Time	(See pg 2)	
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude	30.663	dd	dms	Temp (C)	10.30	pH	6.87	Sample Depth	102.8
Longitude	-84.448	dd	dms	Salinity (ppt)	0.04	Comments		Sp. Conductance (umho/cm)	87
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date	Time	Date	Time	(See pg 2)	
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude	30.63082	dd	dms	Temp (C)	10.69	pH	7.15	Sample Depth	87.3
Longitude	-84.43155	dd	dms	Salinity (ppt)	0.08	Comments		Sp. Conductance (umho/cm)	170
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date	Time	Date	Time	(See pg 2)	
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude	30.5864	dd	dms	Temp (C)	13.15	pH	6.95	Sample Depth	94.7
Longitude	-84.3571	dd	dms	Salinity (ppt)	0.05	Comments		Sp. Conductance (umho/cm)	103
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID				Date	Time	Date	Time	(See pg 2)	
WIN/STORET #				Matrix (type, e.g., Salt, Fresh, etc)		mg/L Total Res. Chlorine			
Latitude	30.52967	dd	dms	Temp (C)	13.38	pH	6.77	Sample Depth	92.7
Longitude	-84.38896	dd	dms	Salinity (ppt)	0.05	Comments		Sp. Conductance (umho/cm)	107

Relinquished By: Ben Rn	Date/Time: 3/15/18 2:20	Shipping Method: Delivered	Number of Coolers Shipped: 3	Received By: ARB	Date/Time: 3-15-18 11:42:00
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**Florida Department of Environmental Protection
Central Laboratory Submittal Form**

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Ben Balys, Phil Homann

Project ID: SMP

Collected By: Ben Balys, Phil Homann

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Ocklocknee River	WIN ID	g1WA0070	Date	3/15/18	Time	1200	mg/L	14, 13, C
WIN/STORET #	Downstream of Tower Rd	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	90.9	Total Res. Chlorine			
Latitude	30.52646	Temp (C)	13.43	pH	6.82	Sample Depth	0.3	Sp. Conductance (umho/cm)	107
Longitude	-84.38821	Salinity (ppt)	0.05	Comments					
Location		WIN ID/Field ID		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Harbinwood	WIN ID	g1WA0034	Date	3/15/18	Time	950	mg/L	A, B, C
WIN/STORET #	Estates Drain	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	73.0	Total Res. Chlorine			
Latitude	30.5193	Temp (C)	12.13	pH	7.32	Sample Depth	0.1	Sp. Conductance (umho/cm)	126
Longitude	-84.3357	Salinity (ppt)	0.06	Comments					
Location		WIN ID / FIELD ID		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Ocklocknee River	WIN ID	g1WA0068	Date	3/15/18	Time	1330	mg/L	A, B, C
WIN/STORET #	Upstream of US 90	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	92.8	Total Res. Chlorine			
Latitude	30.47573	Temp (C)	14.02	pH	6.61	Sample Depth	0.3	Sp. Conductance (umho/cm)	112
Longitude	-84.40595	Salinity (ppt)	0.05	Comments					
Location		WIN ID/Field ID		Collection (comp begin or Grab)		Composite end		Bottle Group(s)	
Field ID	Caney Creek	WIN ID	g1WA0014	Date	3/15/18	Time	900	mg/L	A, B, C, D, F
WIN/STORET #	Upstream of US 90	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	Diss. Oxygen	102.2	Total Res. Chlorine			
Latitude	30.5325	Temp (C)	8.50	pH	6.69	Sample Depth	0.1	Sp. Conductance (umho/cm)	89
Longitude	-83.9501	Salinity (ppt)	0.04	Comments					

Relinquished By: Ben Balys	Date/Time: 3/15/18	Shipping Method: Delivered	Number of Coolers Shipped: 3	Received By: [Signature]	Date/Time: 3-15-18
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Group: A	Bottle Type:	P-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 7	Preservative:	ICE	Enter Number of Bottles Sent to Lab	7
	CHLSUITE-W						
Group: A	Bottle Type:	P-500ML	# of Bottles: 7	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	7
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 7	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	7
	W-PO4-F						
Group: B	Bottle Type:	P-500ML	# of Bottles: 6	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	6
	W-ICP						
	W-ICPMS						
Group: C	Bottle Type:	P-250ML-WO-THI	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	8
	ECOLI-18QT						
Group: D	Bottle Type:	BG-500ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	W-E8321-DI						
	W-E8321-MS						
Group: E	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-FILTER						
Group: F	Bottle Type:	QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	PCR-BACR						
	PCR-FILTER						

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 submittal forms

1 - case of Nitric Acid

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 55070298

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

Description

Container ID: P-500ML

Qty: 7

Preservation: ICE And H2SO4

Lot # 05070440

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: 7

Preservation: FILTER-ICE

Lot # 05069732

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: 6

Container ID: P-500ML

Qty: 6

Preservation: HNO3

Lot # 05070440

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: 8

Container ID: P-250ML-WO-THI

Qty: 8

Preservation: ICE

Lot # L15269

Description:

Analysis

ECOLI-18QT

Description

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 # 00068622

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-E8321-DI

W-E8321-MS

Description

Pesticides, herbicides, and other chemicals in water matrices by HPLC/MS/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 # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

Description

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 # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-BACR

PCR-FILTER

Description

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

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
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID <u>AN0311</u>	Exp <u>12-7-18</u>	Lot # <u>NA7341010</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

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