



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

PH

WIN Station Name: Harbinwood Estates Drain

Date: 3/15/2018

WIN/ Field ID: G1WA0034

WBID: 746A

Latitude: 30.5193

(mm/dd/yyyy)

County: Leon

ORG ID: 21FLWQA

Longitude: -84.3357

(Decimal Degrees)

Receiving Body of Water: Lake Jackson

RQ-2018- 03-12-53

(Decimal Degrees)

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 / <u>Normal</u> / High / Flooded				Meter ID# Biology #2		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 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 (umhos/cm)	Temp. (C°)
EST	0950	0.2	0.1	VOB	7.84	73.0	7.32	0.06	126	12.13
CEN										

Biological Samples Collected: <u>None</u> HA SCI RPS Algae ID LVS LVI Other:									
SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#: <u>1975290</u>									

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	SA7341020	2/7/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ HNO3	7261120	9/18/18	☒ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 um 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-CARB-AA	☐ Ice			
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ 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
Tracers, Markers
(PCR-FILTER)

group: A, B, C, D, E

Harbinwood
Estates Drain

WIN ID/Filed ID



G1WA0034

Signature:

Ben Ralys

Date:

3/16/18

Enter Field Parameters, Verify Station ID In LIMS DMT:

9/11/18

QC Station ID, Field Parameters In LIMS DMT:

4/16/18

Scan/Save Field Sheets

C1 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 page

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	7:18	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

Requester: Curtis Musson

Field Report Prepared By: Ben Rabys, Phil Homann

Ben Rabys, Phil Homann

Project ID: SMP

Collected By: Ben Rabys, Phil Homann

Sampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Swamp Creek		G1WA0052		Date 3/15/18 Time 1040		Date — Time —		(See pg 2)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
WIN/STORET #				Fresh		102.8		—	
Latitude		30.663		Temp (C)		pH		Sp. Conductance	
		-84.448		10.30		6.87		(umho/cm) 87	
Longitude				Salinity (ppt)		Comments			
				0.04					
Location		WIN ID / Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Salem Branch		G1WA0053		Date 3/15/18 Time 1030		Date — Time —		(See pg 2)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
WIN/STORET #				Fresh		87.3		—	
Latitude		30.63082		Temp (C)		pH		Sp. Conductance	
		-84.43155		10.69		7.15		(umho/cm) 170	
Longitude				Salinity (ppt)		Comments			
				0.08					
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Ochlockonee River		G1WA0071		Date 3/15/18 Time 1115		Date — Time —		(See pg 2)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
WIN/STORET #				Fresh		94.7		—	
Latitude		30.5864		Temp (C)		pH		Sp. Conductance	
		-84.3571		13.15		6.95		(umho/cm) 103	
Longitude				Salinity (ppt)		Comments			
				0.05					
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Ochlockonee River		G1WA0069		Date 3/15/18 Time 1215		Date — Time —		(See pg 2)	
Field ID				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
WIN/STORET #				Fresh		92.7		—	
Latitude		30.52967		Temp (C)		pH		Sp. Conductance	
		-84.38896		13.38		6.77		(umho/cm) 107	
Longitude				Salinity (ppt)		Comments			
				0.05					

Relinquished By: Ben Rn	Date/Time: 3/15/18 2:20	Shipping Method: Delivered	Number of Coolers Shipped: 3	Received By: ARJ	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 HomannSampling Agency: FDEP

Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River	dd	dd	Date	3/15/18	Time	1200	mg/L	1200
WIN/STORET #	Downstream of Tower Rd	dd	dd	Date	3/15/18	Time	1200	mg/L	1200
Latitude	30.52646	dd	dd	Date	3/15/18	Time	1200	mg/L	1200
Longitude	-84.38821	dd	dd	Date	3/15/18	Time	1200	mg/L	1200
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Harbinwood	dd	dd	Date	3/15/18	Time	950	mg/L	950
WIN/STORET #	Estates Drain	dd	dd	Date	3/15/18	Time	950	mg/L	950
Latitude	30.5193	dd	dd	Date	3/15/18	Time	950	mg/L	950
Longitude	-84.3357	dd	dd	Date	3/15/18	Time	950	mg/L	950
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Ochlocknee River	dd	dd	Date	3/15/18	Time	1330	mg/L	1330
WIN/STORET #	Upstream of US 90	dd	dd	Date	3/15/18	Time	1330	mg/L	1330
Latitude	30.47573	dd	dd	Date	3/15/18	Time	1330	mg/L	1330
Longitude	-84.40595	dd	dd	Date	3/15/18	Time	1330	mg/L	1330
Location		WIN ID / FIELD ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Caney Creek	dd	dd	Date	3/15/18	Time	900	mg/L	900
WIN/STORET #	Upstream of US 90	dd	dd	Date	3/15/18	Time	900	mg/L	900
Latitude	30.5325	dd	dd	Date	3/15/18	Time	900	mg/L	900
Longitude	-83.9501	dd	dd	Date	3/15/18	Time	900	mg/L	900

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<u>Ben Balys</u>	3/15/18 220	<u>Delivered</u>	3	<u>Ben Balys</u>	3-15-18 14:28

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

Requested Analyses:

Bottle Group: A

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 50070298

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 HNO31.1

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