



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

PH

WIN Station Name: Harbinwood Estates Drain

Date: 04/18/2018

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- 04-16-18

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Curtis Musson							X			
Ray Stuart						X		X	X	X

Sampling Equipment									
☒ Sample Container	☐ Van Dorn	☐ Pole							
☐ Carboy	☒ Syringe								
☐ Dipper	☐ Other								
Depth Measured with <u>meter stick</u>									
Equipment ID <u>NA</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# Bio #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 <u>NA</u> Low <u>NA</u>		
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°)
<u>EST</u>	8:15	0.2	0.1	VOB	4.95	52.2	7.07	0.05	108	17.86
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#:									

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	SA 7233030	08/21/2018	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA 7341010	12/07/2018	☒ <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-E8321-DI ☒ W-E8321-MS	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-E8321-DI ☐ W-PCL-SQ-R ☐ WE8321-MS ☐ W-CARB-AA	☐ Ice ☐ Other			

Notes:

Kit-C
FW Bact
Tracers
Markers

WIN ID/Filed ID

Harbinwood Estates Drain

G1WA0034

Signature: [Signature]

Date: 4/18/18

Contains 1:1 Sulfuric Acid
Lot No.: SA7233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Contains
1:1
Nitric Acid
NA-7341010
EXP: 12/7/18
See SDS

Enter Field Parameters, Verify Station ID In LIMS DMT: 4/24/18

QC Station ID, Field Parameters In LIMS DMT: Cm 4-25-18

Scan/Save Field Sheets Cm 4-25-18
(Initials/Date)

Migrate Data to WIN: [Signature]
(Initials/Date)

Verify Data In WIN: [Signature]
(Initials/Date)

Hardwood, Canal, Chicken, Black, Wang

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: B10#2

RQ: 2018-04-16-18

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.	Curtis Mussen	4/18/18	7:09	21.25	8.863	8.87	100.0	73	-	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:10	21.25	8.863	8.87	100.0	73	-	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:19	26.02	8.114	8.06	99.3	77	-	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 hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	4/18/18	7:12	17100SD	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:13	17100SD	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:20	180326 A	04/2019	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 Mussen	4/18/18	7:15	17100SB	4/2019	7.0	7.00	325	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:17	17100SA	10/2018	4.0	4.01	177	P/F	L/F
Calibr.	Curtis Mussen	4/18/18	7:19	17100SC	4/2019	10.0	9.98	-160	P/F	L/F
ICV	Curtis Mussen	4/18/18	7:21	17100SC	4/2019	10.0	9.96	-159	P/F	L/F
CCV	Curtis Mussen	4/18/18	13:22	17100SA	10/2018	4.0	3.56	199	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	4/18/18	7:14	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

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Carl's Musson / Raymond StuartField Report Prepared By: Raymond StuartSampling Agency: DEP

Location		WIN ID/Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	Total Res. Chlorine (mg/L)	% sat	Time	
Harbinwood Estates Drain GIWA0034									
Latitude	30.5193	dd dms	Longitude	-84.3357	dd dms				
Black Creek upstream of CR158 GIWA0072									
Latitude	30.472981	dd dms	Longitude	-84.057057	dd dms				
Wards Creek Upstream of CR259 GIWA0074									
Latitude	30.564331	dd dms	Longitude	-83.909293	dd dms				
Caney Creek Upstream of US 90 GIWA0014									
Latitude	30.5325	dd dms	Longitude	-83.9501	dd dms				

Location		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	WIN/STORET #	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Diss. Oxygen	Total Res. Chlorine (mg/L)	% sat
Harbinwood Estates Drain GIWA0034							
Temp (C)	17.86	pH	7.07	Sample Depth	0.1	Sp. Conductance (umho/cm)	108
Salinity (ppt)	0.05						
Black Creek upstream of CR158 GIWA0072							
Temp (C)	14.64	pH	4.92	Sample Depth	0.3	Sp. Conductance (umho/cm)	31
Salinity (ppt)	0.01						
Wards Creek Upstream of CR259 GIWA0074							
Temp (C)	15.36	pH	5.08	Sample Depth	0.2	Sp. Conductance (umho/cm)	38
Salinity (ppt)	0.02						
Caney Creek Upstream of US 90 GIWA0014							
Temp (C)	14.59	pH	7.16	Sample Depth	0.08	Sp. Conductance (umho/cm)	120
Salinity (ppt)	0.06						

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<u>[Signature]</u>	4/18/18 1:03		3	<u>[Signature]</u>	4/18/18 1:05

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT
Project ID: SMP

Requester: Curtis Musson
Collected By:

Field Report Prepared By:

Sampling Agency:

Location		Caney Creek		WIN ID / Field ID		Date 4/18/18		Time 11:00		Composite end Date		Bottle Group(s)	
Field ID		Downs:stream		of 158.A		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
WIN/STORET #						Temp (C)		pH		ft		Sample Depth	
Latitude		30.52		Longitude		-83.94		Salinity (ppt)		0.06		Sp. Conductance (umho/cm)	
Comments		134											
Location		Chicken Branch		WIN ID / Field ID		Date 4/18/18		Time 12:25		Composite end Date		Bottle Group(s)	
Field ID		at Old Plank Rd		G1WA0031		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
WIN/STORET #						Temp (C)		pH		ft		Sample Depth	
Latitude		30.3261		Longitude		-84.1481		Salinity (ppt)		0.14		Sp. Conductance (umho/cm)	
Comments		292											
Location						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
Field ID						Temp (C)		pH		ft		Sample Depth	
WIN/STORET #						Salinity (ppt)		Comments		mg/L		Total Res. Chlorine	
Comments		134											
Location						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
Field ID						Temp (C)		pH		ft		Sample Depth	
WIN/STORET #						Salinity (ppt)		Comments		mg/L		Total Res. Chlorine	
Comments		134											
Location						Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
Field ID						Temp (C)		pH		ft		Sample Depth	
WIN/STORET #						Salinity (ppt)		Comments		mg/L		Total Res. Chlorine	
Comments		134											

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
					4/18/18 1:05

Group: A	Bottle Type: P-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type: BP-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
CHLSUITE-W						
Group: A	Bottle Type: P-250ML-WO-THI	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
ECOLI-18QT						
Group: A	Bottle Type: P-500ML	# of Bottles: 6	Preservative: ICE And H2SO4		Enter Number of Bottles Sent to Lab	6
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC						
Group: A	Bottle Type: P-125ML	# of Bottles: 6	Preservative: FILTER-ICE		Enter Number of Bottles Sent to Lab	6
W-PO4-F						
Group: B	Bottle Type: P-500ML	# of Bottles: 4	Preservative: HNO3		Enter Number of Bottles Sent to Lab	4
W-ICP W-ICPMS						
Group: C	Bottle Type: QPCR-P-500ML	# of Bottles: 3	Preservative: ICE		Enter Number of Bottles Sent to Lab	3
PCR-FILTER						
Group: C	Bottle Type: BG-500ML	# of Bottles: 4	Preservative: ICE		Enter Number of Bottles Sent to Lab	4
W-E8321-DI W-E8321-MS						
Group: D	Bottle Type: QPCR-P-500ML	# of Bottles: 2	Preservative: ICE		Enter Number of Bottles Sent to Lab	2
PCR-BACR PCR-FILTER						

Group: D

Bottle Type:

W-E8321-DI

W-E8321-MS

BG-500ML

of Bottles: 3

Preservative:

ICE

Enter Number of Bottles Sent to Lab

3

Cooler Packing Worksheet for Request: RQ-2018-04-16-18

Black, Wards, caney, Harbinwood, Megginnis

Ship Cooler On: 4/12/2018

Customer/Project: WAS-SECT/SMP

Assigned To: GREENWOO_J

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 & E. coli

Group B: Metals

Group C: Tracers & PCR-FILTER

Group D: Tracers & PCR-FILTER & PCR-BacR

Packing Notes:

No FedEx labels

No Trash Bags

QC bottles added-jhw

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00570681

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 # 1223623

Description: Brown Plastic Bottle 1L

Analysis

Description

Container ID: P-250ML-WO-THI

Qty: 6 Preservation: ICE

Lot # 417167

Description:

Analysis

ECOLI-18QT

Description

Escherichia coli by Colilert 18 Quanti-Tray method - non-chlorinated water systems

Container ID: P-500ML

Qty: 6 Preservation: ICE And H2SO4

Lot # 00066045

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: 6 Preservation: FILTER-ICE

Lot # 00069732

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: 4

Container ID: P-500ML

Qty: 4 Preservation: HNO3

Lot # 00066045

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: 3

Container ID: QPCR-P-500ML

Qty: 3 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00070528

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: D

of Sites: 2

Container ID: QPCR-P-500ML

Qty: 2 Preservation: ICE

Lot # 00070172

Description: 500ml Sterile Nalgene

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

Container ID: BG-500ML

Qty: 3 Preservation: ICE

Lot # 00069782

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

00070528/2

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

Cooler Packed By:

J.D.

Number of Coolers:

3

Date:

4/11/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☐ FedEx Bills, if applicable
- ☐ Plastic Bags
- ☐ Zip Ties

If Preservation Included:

ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2018-04-16-18