



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Harbinwood Estates Drain

Date: 1/31/2018

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- 01-29-33

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Will Lasley						X			
Curtis Musson					X		X	X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☒ Syringe	
☐ Dipper	☐ Other	
Depth Measured with <u>Meter Stic</u>		
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 / Intestinal / 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 (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	10:00	0.2	0.1	1003	9.87	87.3	7.65	0.06	133	7.94
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#:

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	722510	6/2/18	☒
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ HNO3	726120	9-18-18	☒
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice			
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			

Notes:

Kit-C,
E.coli
Tracers
PCR-FILTER

Harbinwood
Estates Drain

WIN ID/Filed ID

G1WA0034

Signature:

Date:

Enter Field Parameters, Verify Station ID in LIMS DMT:

(Initials/Date)

QC Station ID, Field Parameters in LIMS DMT:

(Initials/Date)

Scan/Save Field Sheets

(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 name.

Meter ID: Bio #2 RQ- 2018-01-29-33 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 Mussen	1/31/18	714	19.15	9.239	9.25	100.0	46	-	P/F	L/F
ICV	Curtis Mussen	1/31/18	715	19.15	9.239	9.25	100.0	46	-	P/F	L/F
CCV	Curtis Mussen	1-31-18	1351	19.5	9.25	9.25	100.7	46	-	P/F	L/F
CCV					9.154					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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	1/31/18	717	171005D	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	1/31/18	717	171005D	10/2018	1000	1001	P/F	L/F
CCV	Curtis Mussen	1-31-18	1353	171005E	10/2018	100	101	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	1-31-18	720	170614B	12/2018	7.0	7.00	19	P/F	L/F
Calibr.	Curtis Mussen	1-31-18	721	171005A	10/2018	4.01	4.01	185	P/F	L/F
Calibr.	Curtis Mussen	1-31-18	723	171005C	4/2019	10.01	9.98	-140	P/F	L/F
ICV	Curtis Mussen	1-31-18	725	171005A	10/2018	4.01	4.01	184	P/F	L/F
CCV	Curtis Mussen	1-31-18	1354	171005C	4/2019	10.01	10.00	-144	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	1-31-18	718	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:

Realizator:

Project ID: SMP

Collected By:

Collected By: Curtis Mussen, Will Lasker

Field Report Prepared By:

Curtis Mussen
FDHP

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last revised Jan 3, 2010[illegible]

Request Number: RQ-2018-01-29-33

Black, Wards, Caney, Harbinwood, Little R., Megginis

Florida Department of Environmental Protection
Central Laboratory Submittal Form

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last revised Jan 3, 2018

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By:

Project ID: SMP

Collected By: Curtis Musson, Will Lester

Sampling Agency:

FDEP

Location	WIN ID/Field ID		☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	835	Eastern Central	Composite end	Time	Bottle Group(s)
Field ID	Little River		☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	1-31-2018	11:00	835	☒ mg/L	Total Res. Chlorine	—	(See pg 2)
WIN/STORET #	100 meters upstream of US 90		☒ Temp	Temp	9.70	1-31-2018	11:00	835	☒ pH	6.89	—	ABCD
Latitude	☐ dd	☐ dms	☐ Salinity	Salinity (ppt)	0.04	1-31-2018	11:00	835	☐ ft	Sp. Conductance (umho/cm)	—	—
Location	WIN ID/Field ID		☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	925	Eastern Central	Composite end	Time	Bottle Group(s)
Field ID	Megginis Arm Run		☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	1-31-2018	11:00	925	☒ mg/L	Total Res. Chlorine	—	A, C, D
WIN/STORET #	Downstream of Sharekawa 0033		☒ Temp	Temp	7.44	1-31-2018	11:00	925	☒ pH	7.27	—	—
Latitude	☐ dd	☐ dms	☐ Salinity	Salinity (ppt)	0.07	1-31-2018	11:00	925	☐ ft	Sp. Conductance (umho/cm)	—	—
Location	WIN ID/Field ID		☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	1000	Eastern Central	Composite end	Time	Bottle Group(s)
Field ID	Harbinwood		☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	1-31-2018	11:00	1000	☒ mg/L	Total Res. Chlorine	—	A, B
WIN/STORET #	Estates Drain		☒ Temp	Temp	9.94	1-31-2018	11:00	1000	☒ pH	7.65	—	C, D
Latitude	☐ dd	☐ dms	☐ Salinity	Salinity (ppt)	0.06	1-31-2018	11:00	1000	☐ ft	Sp. Conductance (umho/cm)	—	—
Location	WIN ID/Field ID		☐ Comp	Collection (comp begin or grab)	☒ Grab	Date	Time	1100	Eastern Central	Composite end	Time	Bottle Group(s)
Field ID	Ward's Creek		☒ Grab	Matrix (type, e.g., Salt, Fresh, etc)	Fresh	1-31-2018	11:00	1100	☒ mg/L	Total Res. Chlorine	—	A, B, C, D
WIN/STORET #	upstream of bridge at CR 259		☒ Temp	Temp	6.99	1-31-2018	11:00	1100	☒ pH	5.78	—	—
Latitude	☐ dd	☐ dms	☐ Salinity	Salinity (ppt)	0.02	1-31-2018	11:00	1100	☐ ft	Sp. Conductance (umho/cm)	—	—

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Curtis Musson	1-31-18 / 1331	Drop Off	3	ABP	1-3-18 / 1331
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Group: F	Bottle Type: QPCR-P-250ML	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	PCR-HF183				2
Group: G	Bottle Type: QPCR-P-250ML	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	PCR-FILTER				8

Cooler Packing Worksheet for Request: RQ-2018-01-29-33

Black, Wards, Caney, Harbiwood, Little R., Meginis

Ship Cooler On: 1/26/2018

Customer/Project: WAS-SECT/SMP

Assigned To: SEARSON_C

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

Group B: Metals

Group C: E. coli

Group D: Tracers (AHERB Short List)

Group E: PCR_FILTER, HF183

Group F: HF183, BacR

Group G: PCR-filter

Requested Analyses:

Bottle Group: A

of Sites: 6

Container ID: P-1L

Qty: 6 Preservation: ICE

Lot # 00069741

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 # 1214297

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00069911

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-AHERB-AA

W-SUC-AA-R

W-UHERB-AA

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

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

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

Bottle Group: F

of Sites: 1

Container ID: QPCR-P-250ML

Qty: 2 Preservation: ICE

Lot # 00067460

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-BACR

PCR-HF183

Description

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

Detection and quantification of human-specific HF183 Bacteroides genetic marker with quantitative polymerase chain reaction

Bottle Group: G

of Sites: 4

Container ID: QPCR-P-250ML

Qty: 8 Preservation: ICE

Lot # 00069545

Description: 250ml Sterile Nalgene (2)

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis