



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Harbinwood Estates Drain

Date: 1/10/2018

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- 01-08-11

(Decimal Degrees)

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys							X	X	X	X
Curtis Musson						X	X	X	X	X

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☒ Syringe		
☐ Dipper	☐ Other		
Depth Measured with <u>Meter Stick</u>			
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# <u>Biology #2</u>		Matrix: <u>Fresh</u> / Marine / DI				
Photos: <u>Yes</u> / No		Flow: No Flow / <u>Intestinal</u> / Flowing / 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 (µmhos/cm)	Temp. (C°)
<u>EST</u>	<u>12:10</u>	<u>0.1</u>	<u>0.05</u>	<u>VOB</u>	<u>10.34</u>	<u>102.4</u>	<u>7.28</u>	<u>0.06</u>	<u>137</u>	<u>14.99</u>
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	<u>7233030</u>	<u>8/21/18</u>	☒ <2	
Metals	☒ W-ICPMS ☒ W-ICP				☒ Ice ☒ HNO3	<u>7261120</u>	<u>9/18/18</u>	☒ <2	
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				

Notes:

Kit-C, Bacteria
Tracers, Markers

WIN ID / Field ID →

Harbinwood
Estates Drain



G1WA0034

Signature: Curtis Musson

Date: 1-10-2018

Enter Field Parameters, Verify Station ID in LIMS DMT:

1/12/18 (Initials/Date)

QC Station ID, Field Parameters in LIMS DMT:

CM 2-21-18 (Initials/Date)

Scan/Save Field Sheets

CM 2/21/18 (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.

Meter ID: Bio #2 RQ: 2018-01-08-01 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	1-10-18	657	20.82	8.95	8.95	100.0	54	-	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	658	20.80	8.950	8.95	100.0	53	-	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1340	22.35	8.693	8.78	100.0	54	-	☒ F	☒ 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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	1-10-18	700	171005D	10/2018	1000	1000	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	701	171005D	10/2018	1000	1000	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1342	171005E	10/2018	100	103	☒ F	☒ 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	1-10-18	704	170614B	12/2018	7.0	7.00	24	☒ F	☒ F
Calibr.	Curtis Mussen	1-10-18	705	171005A	10/2018	4.01	4.01	186	☒ F	☒ F
Calibr.	Curtis Mussen	1-10-18	708	171005C	4/2018	10.01	9.98	-131	☒ F	☒ F
ICV	Curtis Mussen	1-10-18	710	171005A	10/2018	4.01	4.01	185	☒ F	☒ F
CCV	Curtis Mussen	1-10-18	1344	171005C	4/2018	10.01	10.17	-141	☒ F	☒ 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	1-10-18	702	0.000	0.000	☒ F	☒ F

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

COMMENTS:

Sand, Black, 8, AJ, Harbinwood, Swamp, Salem

Field Report Prepared By:

Sampling Agency:

Location	WIN ID / Field ID →		Barcode		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Sand Pond		G1WA00044		Date 1/10/18		Date 9:20		(See pg 2)	
STORET #	Midcle				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Latitude	30.334	Longitude	~ 84.387		Temp (C) 12.22		pH 5.19		Sample Depth 0.3	
Location	WIN ID / Field ID →		Barcode		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Freeman Creek upstream		G1WA00010		Date 1/10/18		Date 9:59		A, B, C	
STORET #	of SR 267 (Bloxham Cutoff)				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Latitude	30.3887	Longitude	- 84.5844		Temp (C) 13.90		pH 5.22		Sample Depth 0.15	
Location	Field/WIN ID →		Barcode		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Blac < Creek		G1WA00023		Date 1/10/18		Date 8:50		A, C	
STORET #	upstream of				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Latitude	30.27792	Longitude	- 84.3858		Temp (C) 12.20		pH 5.96		Sample Depth 0.15	
Location	WIN ID / Field ID →		Barcode		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	Eight Mile		G1WA00024		Date 1/10/18		Date 8:10		A, C, D, E	
STORET #	Pond Middle				Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Latitude	30.32635	Longitude	- 84.30273		Temp (C) 15.87		pH 6.03		Sample Depth 0.1	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
<i>Wendy</i>	1/6/2016 1321		3	<i>SK</i>	1-10-18/11:22

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Curtis Musson, Ben Rabbs

Field Report Prepared By: Curtis Musson, Ben Rabbs

Sampling Agency: FDEP

Location	WIN ID / Field ID → Not collected Meggin's Arm Run Downstream of Shafter	WIN ID / Field ID → 30.4804	Longitude dd dms -84.2982	dd dms	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 12:10 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh
Field ID								
STORET #								
Latitude								
Location	WIN ID / Field ID → Harbinwood Estates Drain	WIN ID / Field ID → 30.5193	Longitude dd dms -84.3357	dd dms	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 12:10 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh
Field ID								
STORET #								
Latitude								
Location	WIN ID / Field ID → Salem Branch downstream of SR 159	WIN ID / Field ID → 30.63082	Longitude dd dms -84.43155	dd dms	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 12:10 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh
Field ID								
STORET #								
Latitude								
Location	WIN ID / Field ID → Swamp Creek Upstream of Railroad	WIN ID / Field ID → 30.663	Longitude dd dms -84.448	dd dms	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 12:10 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh	Collection (comp begin or grab) Date 1/10/18 Time 11:20 Matrix (type, e.g., Salt, Fresh, etc) Fresh
Field ID								
STORET #								
Latitude								

Relinquished By: Curtis Musson	Date/Time: 01/10/2018 / 1321	Shipping Method: Drop off	Number of Coolers Shipped: 3	Received By: SR	Date/Time: 1-10-18 / 1228
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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 <u>6</u>
Group: A	Bottle Type: CHLSUITE-W	BP-1L	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>6</u>
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 <u>6</u>
Group: A	Bottle Type: W-PO4-F	P-125ML	# of Bottles: 7	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab <u>6</u>
Group: B	Bottle Type: W-ICP W-ICPMS	P-500ML	# of Bottles: 2	Preservative: HNO3	Enter Number of Bottles Sent to Lab <u>2</u>
Group: C	Bottle Type: ECOLI-18QT	P-250ML-WO-THI	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>7</u>
Group: D	Bottle Type: W-AHERB-AA W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>4</u>
Group: E	Bottle Type: PCR-FILTER PCR-HF183	QPCR-P-250ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>4</u>
Group: F	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative: ICE	Enter Number of Bottles Sent to Lab <u>5</u>

Cooler Packing Worksheet for Request: RQ-2018-01-08-11**Sand, Black, 8, AJ, Harbinwood, Swamp, Salem****Ship Cooler On: 1/2/2018****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: Nutrients, CHLA, Physical Aggregates

Group B: Metals

Group C: Microbiology (Bacteria)

Group D: Organics (Wastewater Tracers)

Group E: PCR HF183, FILTER

Group F: PCR FILTER

Requested Analyses:**Bottle Group: A****# of Sites: 7****Container ID: P-1L****Qty: 7****Preservation: ICE****Lot #** 00069122**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 #** 1200289**Description: Brown Plastic Bottle 1L****Analysis**

CHLSUITE-W

Description

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

Container ID: BG-1L

Qty: 5 Preservation: ICE

Lot # 00069604

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: 2

Container ID: QPCR-P-250ML

Qty: 4 Preservation: ICE

Lot # 00066780

Description:

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: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00066780

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: CS

Number of Coolers: 4

Date: 12/29/17

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-2018-01-08-11