



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?

Yes / No

Do PH

Location/STORET Station Name: Harbinwood Estates Drain

Date: 11/01/2017

(mm/dd/yyyy)

STORET # G1WA0034

WBID: 746A

Latitude: 30.5193

County: Leon

RQ - 2017-10-30-16

ORG ID: 21FLWQA

Longitude: -84.3357

(Decimal Degrees)

Receiving Body of Water: Lake Jackson

Field ID: G1WA0034_11012017

(Decimal Degrees)

Sampling Team Members

Jhamieka Greenwood

Curtis Musson

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other

Equipment ID

Collection Method

☒ Wading ☐ Via Boat
☒ From Shore ☐ Canoe/Kayak
☐ Other (note below) ☐ Electric Motor
☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Matrix: (Fresh) / Marine / DI

Meter ID# BIO 2

Photos: Yes / No

Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)
EST	12:00	0.05	0.1	7.45	77.7	7.42	0.05		105	17.39
CEN								VOB		

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other

SBIO ID Numbers: SBIO-ID: RPS-ID: Macrophyte-ID: LIMS#: 1941958

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4	SA 723 2020	8/21/18	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☐ Ice ☒ HNO3	NA 708/160	3/27/18	☒ <2
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 ☒ qPCR	☒ Ice			
Tracers	☒ W-SUC-AA-R ☒ W-UHERB-AA ☒ W-AHERB-AA	☒ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PCL-SQ-R ☐ W-UHERB-AA ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Contains 1:1 Sulfuric Acid
Lot No.: 07233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Contains 1:1 Sulfuric Acid
Lot No.: 07233030
Expires: 08/21/18
See Safety Data Sheet (SDS)

Sticker(s) Here (table)

Notes:
Kit C
ECOLI
Tracers
PCR_FILTER

Field ID →
Harbinwood
Estates Drain
Nov 01, 2017



G1WA0034_11012017

Harbinwood
Estates Drain

STORET ↓



G1WA0034

Signature:

Date:

Field Parameters Entered into LIMS:

Field Parameters QC in LIMS:

Date Migrated to STORET:

Field Sheets Scanned/Saved:

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Holdly "X" this box if there is qualified data on this page.

Meter ID:

Bio #2

RQ:

2017-10-30-16

Project:

Snp

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	703	11/1/17	20.55	9.074	9.00	100.0	Sc	—	P/F	L/F
ICV	Curtis Mussen	704	11/1/17	20.54	9.074	9.00	100.0	Sc	—	P/F	L/F
CCV	Curtis Mussen	1611	11/1/17	21.63	8.812	8.43	96.0	49	—	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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Mussen	705	11/1/17	17100SD	10/2018	1000	1000	P/F	L/F
ICV	Curtis Mussen	706	11/1/17	17100SD	10/2018	1000	1000	P/F	L/F
CCV	Curtis Mussen	1614	11/1/17	17100SE	10/2018	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	11/1/17	708	120614B	12/2018	7.0	7.0	45	P/F	L/F
Calibr.	Curtis Mussen	11/1/17	710	12100SA	10/2018	4.0	4.01	213	P/F	L/F
Calibr.	Curtis Mussen	11/1/17	711	120310C	9/2018	10.01	9.97	-11	P/F	L/F
ICV	Curtis Mussen	11/1/17	713	120310C	9/2018	10.01	9.92	-104	P/F	L/F
CCV	Curtis Mussen	11/1/17	1616	120614B	12/2018	7.0	6.56	73	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	11/1/17	707	0.000	0.000	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

Request Number: RQ-2017-10-30-16
 Salem, Arrowhead, A.J. Megginis, Swamp, Godby
 Customer: WAS-SECT
 Project ID: SMP

Central Lab Sample Submittal Form

Requester: Curtis Musson

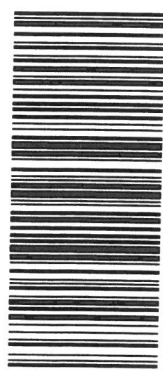
Field Report Prepared By: Jamieka Greenwood
 Sampling Agency: FDEP

Collected By: Curtis Musson Jamieka Greenwood

Request Number: RQ-2017-10-30-16
 Customer: WAS-SECT
 Project ID: SMP

Aj Henry Park
Pond Middle

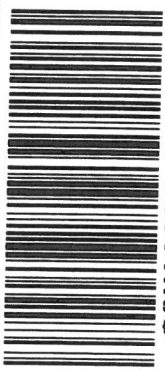
Field ID:  **G1WA0058**

 **G1WA0058_11012017**

Nov 01, 2017

Lake Arrowhead at Boat Dock At Turtle Crk Ln Near Outlet

Field ID:  **G1WA0004**

 **G1WA0004_11012017**

Nov 1, 2017

Tallavanna Lake Middle

Field ID:  **G1WA0045**

 **G1WA0045_11012017**

Nov 1, 2017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Date	Time	Date	Time
☐	☒	11/1/17	8:18	11/1/17	8:18
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Sample Depts (m)	
Fresh		10.30		0.3	
Temp (C)		pH		Sp. Conductance (umho/cm)	
16.93		9.34		70	
Salinity (ppt)		Comments			
0.03					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		Bottle Group(s)	
30.508		-84.216		A	

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Date	Time	Date	Time
☐	☒	11/1/17	8:56	11/1/17	8:56
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Sample Depts (m)	
Fresh		10.07		0.3	
Temp (C)		pH		Sp. Conductance (umho/cm)	
16.98		9.06		65	
Salinity (ppt)		Comments			
0.03					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		Bottle Group(s)	
30.568517		-84.218058		A	

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Date	Time	Date	Time
☐	☒	11/1/17	9:55	11/1/17	9:55
Matrix (Salt, Fresh)		Diss. Oxygen (mg/L)		Sample Depts (m)	
Fresh		9.43		0.3	
Temp (C)		pH		Sp. Conductance (umho/cm)	
18.85		9.55		255	
Salinity (ppt)		Comments			
0.12					
Latitude (Decimal Degrees)		Longitude (Decimal Degrees)		Bottle Group(s)	
30.59862		-84.46593		A/B/C F	

Relinquished By: 	Date/Time: 11/1/17 14:48
Received By: 	Date/Time: 11-1-17 14:48

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Central Lab Sample Submittal Form

Request Number: RQ-2017-10-30-16

Salem, Arrowhead, AJ, Megginis, Swamp, Godby

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Page ____ of ____

Field Report Prepared By: _____

Sampling Agency: FDEP

Collected By: _____

**Swamp Creek
upstream of
Railroad**

STORET ↓



G1WA00052

Field ID →
Swamp Creek
upstream of
Railroad



Nov 1, 2017

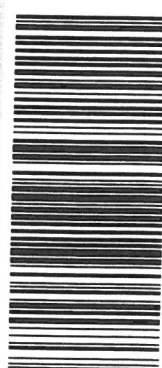
**Salem Branch
downstream of
SR 159**

STORET ↓



G1WA00053

Field ID →
Salem Branch
downstream of
SR 159



Nov 1, 2017

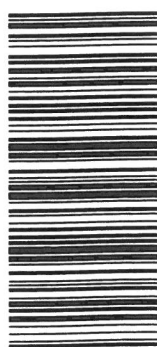
**Harbinwood
Estates Drain**

STORET ↓



G1WA00034

Field ID →
Harbinwood
Estates Drain



Nov 01, 2017

Collection (comp begin or grab)		Collection (comp begin or grab)		Collection (comp begin or grab)	
Comp	Grab	Comp	Grab	Comp	Grab
☒	☐	☒	☐	☒	☐
Matrix (Salt, Fresh)		Matrix (Salt, Fresh)		Matrix (Salt, Fresh)	
Fresh		Fresh		Fresh	
Temp (C)	11.80	Temp (C)	16.76	Temp (C)	17.39
Diss. Oxygen (mg/L)	10.27	Diss. Oxygen (mg/L)	8.69	Diss. Oxygen (mg/L)	7.45
pH	6.54	pH	8.09	pH	7.42
Sample Depts (m)	0.3	Sample Depts (m)	0.2	Sample Depts (m)	0.05
Sp. Conductance (umho/cm)	71	Sp. Conductance (umho/cm)	330	Sp. Conductance (umho/cm)	105
Comments		Comments		Comments	
Latitude (Decimal Degrees)	30.663	Latitude (Decimal Degrees)	30.63082	Latitude (Decimal Degrees)	30.5193
Longitude (Decimal Degrees)	-84.448	Longitude (Decimal Degrees)	-84.43155	Longitude (Decimal Degrees)	-84.3357
Date	11/1/17	Date	11/1/17	Date	11/1/17
Time	10:50	Time	11:30	Time	12:00
Eastern Central		Eastern Central		Eastern Central	
Bottle Group(s)	A/C/O E/C	Bottle Group(s)	C/O/C	Bottle Group(s)	A/O/C O/C

Relinquished By: _____

Date/Time

Number of Coolers

Received By: _____

Date/Time

11-1-17/1448

Collected By:

Megg nnis Arm Run
Downstream of Sharer

Field IL ➔
Megginis Arm
Run Down stream
of Sharer

Godby Drainage
Ditch at
Progress Dr.

Field IP ➔
Godby Drainage
Ditch at
Progress Cir.
Nov 01, 2017
G1WA00061 11012017

Central Drainage
Ditch downstream
of Orange Ave.

Field IC ➡
Central Dr image
Ditch downstream
of Orange Ave.
NOV 01, 2017

GIWA0026 11012017

[illegible]

Group: A	Bottle Type: P-1L	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab	8
ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS					
Group: A	Bottle Type: BP-1L	# of Bottles: 8	Preservative: ICE	Enter Number of Bottles Sent to Lab	8
CHLSUITE-W					
Group: A	Bottle Type: P-500ML	# of Bottles: 8	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	8
W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC					
Group: A	Bottle Type: P-125ML	# of Bottles: 8	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	8
W-PO4-F					
Group: B	Bottle Type: P-500ML	# of Bottles: 3	Preservative: HNO3	Enter Number of Bottles Sent to Lab	3
W-ICP W-ICPMS					
Group: C	Bottle Type: P-250ML-WO-THI	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
ECOLI-18QT					
Group: D	Bottle Type: BG-1L	# of Bottles: 5	Preservative: ICE	Enter Number of Bottles Sent to Lab	5
W-AHERB-AA W-SUC-AA-R W-UHERB-AA					
Group: E	Bottle Type: QPCR-P-250ML	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
PCR-FILTER PCR-HF183					
Group: F	Bottle Type: BG-1L	# of Bottles: 4	Preservative: ICE	Enter Number of Bottles Sent to Lab	4
W-AHERB-AA					

Group: F	Bottle Type: W-GLYPH W-PYR-AA-R W-SUC-AA-R W-UHERB-AA	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: F	Bottle Type: W-CT-CI-R W-PCL-SQ-R	BG-500ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: F	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6
Group: G	Bottle Type: PCR-FILTER	QPCR-P-250ML	# of Bottles: 6	Preservative:	ICE	Enter Number of Bottles Sent to Lab	6

Container ID: BG-1L

Qty: 6 Preservation: ICE

Lot # 00069348

Description: Brown Glass Bottle 1L

Affix BLUE dot to container.

Analysis

W-PSNP-TQ

Description

Organonitrogen and phosphorus pesticides (ultra trace level) in water matrices by GC/MS/MS

Bottle Group: G

of Sites: 3

Container ID: QPCR-P-250ML

Qty: 6 Preservation: ICE

Lot # 00068707

Description:

Analysis

PCR-FILTER

Description

Preparation of Samples by Filtration and held for qPCR Analysis

Cooler Packed By: Tyler R. Number of Coolers: 6 Date: 10/25/17

Kit must also include:

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

If Preservation Included:

ID <u>nitric acid</u>	Exp <u>09/18/18</u>	Lot # <u>7261120</u>
ID <u>sulfuric acid</u>	Exp <u>10/02/18</u>	Lot # <u>7275010</u>
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____
ID _____	Exp _____	Lot # _____

PLEASE RETURN ALL COOLERS FOR RQ-2017-10-30-16

Container ID: BP-1L

Qty: 8 Preservation: ICE

Lot # 120 8913

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-500ML

Qty: 8 Preservation: ICE And H2SO4

Lot # 08069255

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: 8 Preservation: FILTER-ICE

Lot # 08068347

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: 3

Container ID: P-500ML

Qty: 3 Preservation: HNO3

Lot # 08069255

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: 7

Container ID: P-250ML-WO-THI

Qty: 7 Preservation: ICE

Lot # 117048

Description:

Analysis

Description