



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Harbinwood Estates Drain

Date: 6/28/18

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- 05-21-16

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Ralys						X	X	X	X
Will Lasley					X		X		X

Sampling Equipment	
☒ Sample Container	☐ Van Dorn ☒ Pole
☐ Carboy	☒ Syringe
☐ Dipper	☐ Other
Depth Measured with <u>50cm Meter Stick</u>	
Equipment ID	

Collection Method	
☒ Wading	☐ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded
Photos: Yes / No Flow: No Flow / Intestinal / Flowing / NA
Meter ID# Biology #2 Matrix: Fresh / Marine / DI
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 (umhos/cm)	Temp. (C°)
<u>EST</u>	1340	0.3	0.15	VOB	4.53	60.4	7.04	0.05	113	30.44
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	SA8101020	4/1/19	☒ <2
Metals	☒ W-JCPMS ☒ W-ICP	☒ Ice ☒ HNO3	NA7261120	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-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			
Tracers	☒ W-E8321-D1 ☒ W-E8321-M5	☒ Ice			

Notes: Kit-C, E.coli, Tracers, PCR-FILTER

Recent mowing/vegetation in water

Harbinwood Estates Drain

WIN ID/Filed ID: G1WA0034

Signature: Ben Ralys Date: 6/28/18

Enter Field Parameters, Verify Station ID In LIMS DMT: 8/6/18 QC Station ID, Field Parameters In LIMS DMT: Cn 8-10-18
Scan/Save Field Sheets Cn 8-10-18 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 where is qualified data on this page.

Meter ID: Biology #2

RQ: 2018-05-21-16

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.	Ben Ralys	6/28/18	6:57	22.0	8.74	8.74	100.0	55.3	-	(P) F	(L) F
ICV	Ben Ralys	6/28/18	7:01	22.1	8.72	8.74	100.2	55.3	-	(P) F	(L) F
CCV	Will Lasley	6/28/18	1455	28.49	7.75	7.82	100.6	57.4	-	(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 mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	Ben Ralys	6/28/18	7:03	180326B	4/2019	1,000	1,000	(P) F	(L) F
ICV	Ben Ralys	6/28/18	7:04	180326B	4/2019	999	999	(P) F	(L) F
CCV	Will Lasley	6/28/18	1457	180326A	4/2019	100	104	(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	6/28/18	7:05	180326D	4/2019	7.0	6.99	20.2	(P) F	(L) F
Calibr.	Ben Ralys	6/28/18	7:06	180326C	4/2019	4.0	4.00	194.5	(P) F	(L) F
Calibr.	Ben Ralys	6/28/18	7:07	171005C	4/2019	10.0	9.96	-143.8	(P) F	(L) F
ICV	Ben Ralys	6/28/18	7:08	171005C	4/2019	10.0	9.94	-142.3	(P) F	(L) F
CCV	Will Lasley	6/28/18	1500	180326C	4/2019	4.0	3.66	212.6	P / (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:

Central Laboratory Submittal Form

Customer: WAS-SECT

Requester: Curtis Musson

Field Report Prepared By: Ben Ralys, Will Lasley

Project ID: SMP

Collected By: Ben Ralys, Will Lasley

Sampling Agency: FDEP

Location		WIN ID / Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Temp (C)	pH	Sample Depth	Diss. Oxygen	Composite end Date	Time	Bottle Group(s)
Chicken Branch at Old Plank Rd		GIWA0031	Fresh	22.54	7.46		48.5			A, C
Latitude	30.3261	Longitude -84.1481	Salinity (ppt) 0.13	Temp (C)	pH	Sample Depth	Diss. Oxygen	Composite end Date	Time	Bottle Group(s)
Eight Mile Pond Middle		GIWA0024	Fresh	28.43	7.50		57.3			B
Latitude	30.32635	Longitude -84.30273	Salinity (ppt) 0.04	Temp (C)	pH	Sample Depth	Diss. Oxygen	Composite end Date	Time	Bottle Group(s)
Black Creek upstream of Bloxham Cutoff		GIWA0023	Fresh	24.51	4.18		74.6			B
Latitude	30.2792	Longitude -84.3858	Salinity (ppt) 0.02	Temp (C)	pH	Sample Depth	Diss. Oxygen	Composite end Date	Time	Bottle Group(s)
Sand Pond Middle		GIWA0044	Fresh	30.68	6.41		109.2			B
Latitude	30.334	Longitude -84.387	Salinity (ppt) 0.01	Temp (C)	pH	Sample Depth	Diss. Oxygen	Composite end Date	Time	Bottle Group(s)

Relinquished By: WL	Date/Time: 6/28/18 1430	Shipping Method	Number of Coolers Shipped: 4	Received By: [Signature]	Date/Time: 6-28-18 1448
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Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Raby, Will Lasley

Field Report Prepared By: Ben Raby, Will Lasley

Sampling Agency: FDEP

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)	Diss. Oxygen	Sample Depth	Total Res. Chlorine	mg/L	% sat	Time	(See pg 2)
Central Drainage									
Ditch downstream of Orange Ave.									
Latitude	30.4095	dd dms	Longitude	-84.3073	dd dms	Temp (C)	28.93	pH	7.83
Salinity (ppt)		0.06		Comments					
Godby Drainage at Progress Dr.									
Latitude	30.444661	dd dms	Longitude	-84.344711	dd dms	Temp (C)	26.74	pH	7.24
Salinity (ppt)		0.08		Comments					
Salem Branch downstream of SR 153									
Latitude	30.63082	dd dms	Longitude	-84.43155	dd dms	Temp (C)	32.13	pH	8.80
Salinity (ppt)		0.15		Comments					
Swamp Creek upstream of Railroad									
Latitude	30.663	dd dms	Longitude	-84.448	dd dms	Temp (C)	25.24	pH	7.20
Salinity (ppt)		0.04		Comments					

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)	Diss. Oxygen	Sample Depth	Total Res. Chlorine	mg/L	% sat	Time	(See pg 2)
Green water, lots of algae									
Latitude	30.63082	dd dms	Longitude	-84.43155	dd dms	Temp (C)	32.13	pH	8.80
Salinity (ppt)		0.15		Comments					
Swamp Creek upstream of Railroad									
Latitude	30.663	dd dms	Longitude	-84.448	dd dms	Temp (C)	25.24	pH	7.20
Salinity (ppt)		0.04		Comments					

Relinquished By: W

Date/Time

6/28/18 1430

Shipping Method

Number of Coolers Shipped: 4

Received By: ASB

Date/Time

6-28-18 1430

Customer: WAS-SECT

Project ID: SMP

Requester: Curtis Musson

Collected By: Ben Raby's, Will Lasley

Field Report Prepared By: Ben Raby's, Will Lasley

Sampling Agency: FDEP

Location		WIN ID/Filed ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID		Harbinwood		Date 6/28/18		Date 1340		(See pg 2)	
WIN/STORET #		Estates Drain g1WA0034		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine	
Latitude		30.5/93		Temp (C)		pH		Sample Depth	
Longitude		-84.3357		Salinity (ppt)		0.05		Sp. Conductance (umho/cm)	
dd dms		dd dms		dd dms		dd dms		ft m	
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt)		Comments					
dd dms		dd dms							
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt)		Comments					
dd dms		dd dms							
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt)		Comments					
dd dms		dd dms							
Location		Field ID		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
WIN/STORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		Total Res. Chlorine			
Latitude		Temp (C)		pH		Sample Depth		Sp. Conductance (umho/cm)	
Longitude		Salinity (ppt)		Comments					
dd dms		dd dms							

Relinquished By: WL	Date/Time 6/28/18 1430	Shipping Method	Number of Coolers Shipped: 4	Received By: [Signature]	Date/Time 6-28-18 1440
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Group: A	Bottle Type: P-250ML-WO-THI ECOLI-18QT	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: B	Bottle Type: P-1L ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
Group: B	Bottle Type: BP-1L CHLSUITE-W	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
Group: B	Bottle Type: P-250ML-WO-THI ECOLI-18QT	# of Bottles: 7	Preservative: ICE	Enter Number of Bottles Sent to Lab	7
Group: B	Bottle Type: P-500ML W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC	# of Bottles: 7	Preservative: ICE And H2SO4	Enter Number of Bottles Sent to Lab	7
Group: B	Bottle Type: P-125ML W-PO4-F	# of Bottles: 7	Preservative: FILTER-ICE	Enter Number of Bottles Sent to Lab	7
Group: C	Bottle Type: QPCR-P-500ML PCR-FILTER	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: C	Bottle Type: BG-500ML W-E8321-DI W-E8321-MS	# of Bottles: 2	Preservative: ICE	Enter Number of Bottles Sent to Lab	2
Group: D	Bottle Type: P-500ML W-ICP W-ICPMS	# of Bottles: 2	Preservative: HNO3	Enter Number of Bottles Sent to Lab	2
Group: E	Bottle Type: BG-500ML	# of Bottles: 1	Preservative: CH2ClCOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1

H2SO4
LOT# S93101020
EXP: 04/11/2019

Lot: NA-7261120
Exp: 09/18/18

Group: E	Bottle Type: W-CARB-AA	BG-500ML	# of Bottles: 1	Preservative:	CH ₂ ClCOOH Pre-Preserved	Enter Number of Bottles Sent to Lab	1
Group: E	Bottle Type: W-CT-Cl-R W-PCL-SQ-R	BG-500ML	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
Group: E	Bottle Type: W-E8321-DI W-E8321-MS	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
Group: E	Bottle Type: W-PSNP-TQ	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4

Cooler Packing Worksheet for Request: RQ-2018-05-21-16
Salem, Chicken, Godby, Sand, 8, Black, CDD, Swamp, Harbinwood

Ship Cooler On: 5/17/2018
Customer/Project: WAS-SECT/SMP

Assigned To: REYNOLDS_T
Requester: Curtis Musson
Priority: 3

850-245-8453
2600 Blair Stone Rd

Tallahassee, FL 32399

Attn: Curtis Musson

Comments:

No preservatives needed.

Group A: E.coli
Group B: E. coli, Nutrients
Group C: Tracers, Markers
Group D: Metals
Group E: Pesticides

Requested Analyses:

Bottle Group: A

of Sites: 2

Container ID: P-250ML-WO-THI

Qty: 2 Preservation: ICE

Lot # 618006

Description:

Analysis

ECOLI-18QT

Description

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

Bottle Group: B

of Sites: 7

Container ID: P-1L

Qty: 7 Preservation: ICE

Lot # 00076298

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 using a maximum of 250 mL of sample

Container ID: BP-1L

Qty: 7 Preservation: ICE

Lot # 1223623

Description: Brown Plastic Bottle 1L

Analysis

CHLSUITE-W

Description

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

Container ID: P-250ML-WO-THI

Qty: 7 Preservation: ICE

Lot # L18006

Description:

Analysis

ECOLI-18QT

Description

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

Container ID: P-500ML

Qty: 7 Preservation: ICE And H2SO4

Lot # 00070684

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 # 00070886

Description: Plastic Bottle 125 mL

Analysis

W-PO4-F

Description

Ortho-phosphate, dissolved, in filtered, aqueous matrices as mg P/L

Bottle Group: C

of Sites: 2

Container ID: QPCR-P-500ML

Qty: 2 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: 2 Preservation: ICE

Lot # 00676845

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: P-500ML

Qty: 2 Preservation: HNO3

Lot # 00676845

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: E

of Sites: 1

Container ID: BG-500ML

Qty: 1 Preservation: CH2ClCOOH Pre-Preserved

Lot # 00676845

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CARB-AA

Description

Carbamates in water matrices by HPLC/MS/MS

Container ID: BG-500ML

Qty: 4 Preservation: ICE

Lot # 00676845

Description: Brown Glass Bottle 500ML

Affix BLUE dot to container.

Analysis

W-CT-CI-R

W-PCL-SQ-R

Description

Organochlorine pesticides in water matrices by GC/MS with Negative Chemical Ionization

Organochlorine pesticides in water matrices by GC/MS-SIM

Container ID: BG-500ML

Qty: 1 Preservation: ICE

Lot # 00676845

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

Container ID: BG-1L

Qty: 4 Preservation: ICE

Lot # 00069664

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

Cooler Packed By: Tyler R.

Number of Coolers: 4

Date: 05/14/18

Kit must also include:

- ☒ Field Sheets
- ☒ Temperature Control Bottle
- ☒ FedEx Bills, if applicable
- ☒ Plastic Bags/Zip Ties
- ☒ Acid Labels (sets of 24)

If Preservation Included:

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

PLEASE RETURN ALL COOLERS FOR RQ-2018-05-21-16