



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

Do

WIN Station Name: Unnamed Creek at Woodrest Rd

Date: 2.20.19
(mm/dd/yyyy)

WIN/ Field ID: G3WA0010

WBID: 262A

Latitude: 30.80689954

(Decimal Degrees)

County: Jackson

ORG ID: 21FLWQA

Longitude: -85.46034058

(Decimal Degrees)

Receiving Body of Water: Alligator Creek

RQ- 2019-02-04-41

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Anir Wood-McGuth									
Curtis Mosson									

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 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 / Low

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	13:18	0.3	0.15	VOB	8.1	93.1	5.09	0.02	38	16.57
CEN										

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

SBIO ID Numbers: SBIO-ID: 79240 HA-ID: 15664 RPS-ID: 9248 Macrophyte-ID: NA < 2m LIMS#: 2064215

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-9274080	10/11/19	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ HNO3	NA 809070	3/21/19	☒ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	10827054		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-BR-IC / 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-BacR ☐ PCR-GULL2 ☐ PCR-HF183 ☐ PCR-DG3 ☐ 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			
Phytoplankton	☐ DTY-QN-C ☐ PKD-QN-C	☐ Ice			

Notes: SCI/HA
SCI Kit
RPS/LVS

WIN ID / FILED ID → G3WA0010

Location Unnamed Creek at Woodrest Rd

Signature: [Signature] Date: 2-20-19

LIMS EVENT ID: WAS-SECT-2019-02-20-02

WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: 3/3/19

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SBIO: 79240

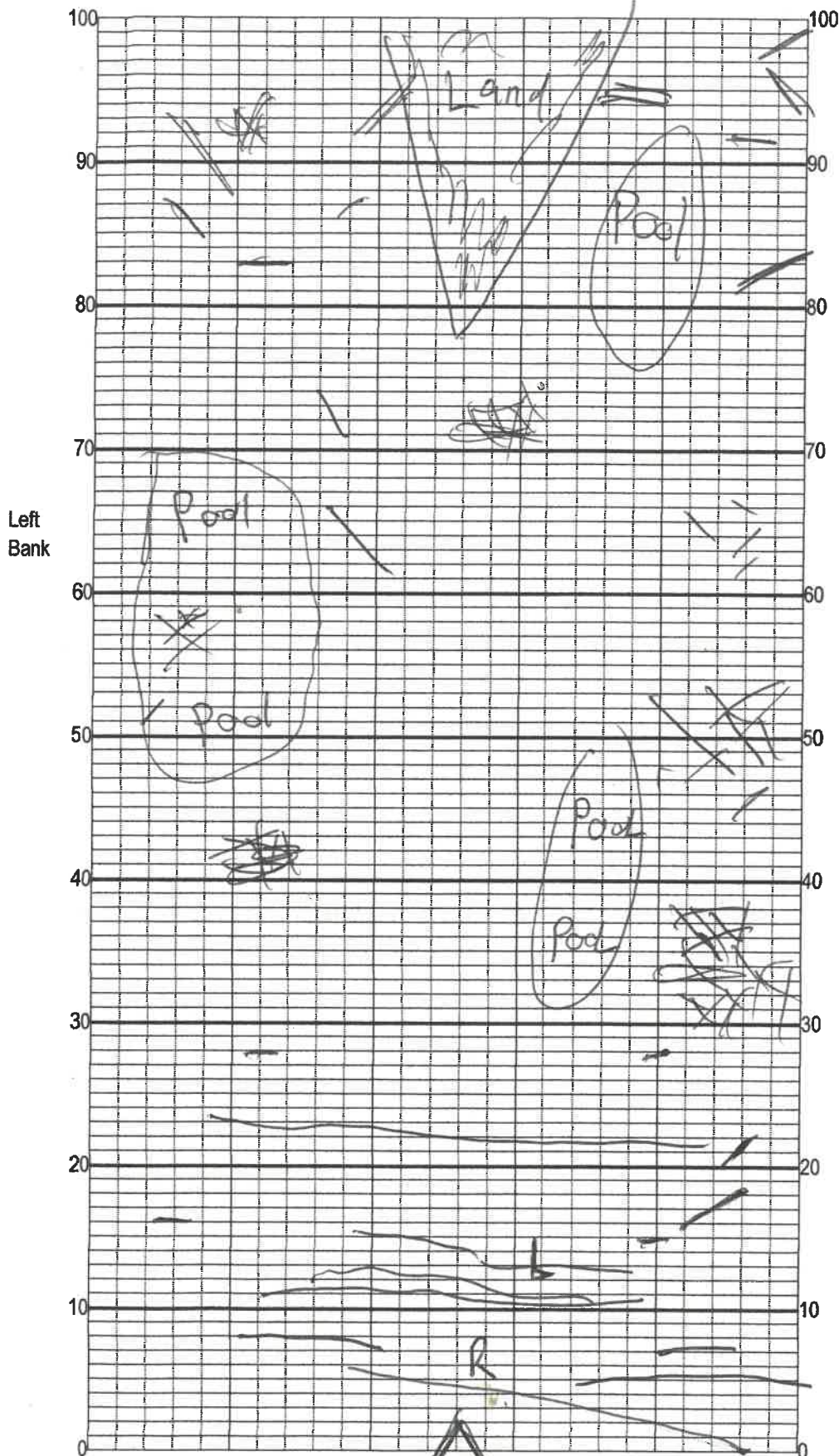
SAMPLING AGENCY: <u>DEP - 21 Flwa</u>		STORET STATION NUMBER: <u>G3WA0010</u>	DATE (MM/DD/YY): <u>2/20/19</u>	RECEIVING BODY OF WATER: <u>Alligator Creek</u>
REMARKS: <u>HA ID: 15664</u>	COUNTY: <u>Jackson</u>	LOCATION: <u>Unamed Creek at Woodrest Rd</u>	FIELD ID/NAME: <u>G3WA0010</u>	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>4</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>20</u>	Greater than 30% major productive habitat present at site (20) 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity <u>20</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 (20) 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>13</u> ----- Primary Score <u>57</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 (13) 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>20</u>	(20) 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas.
Right Bank <u>10</u> Left Bank <u>10</u>	(10) 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank <u>5</u> Left Bank <u>10</u>	(10) 9	8 7 6	(5) 4	3 2 1
Riparian Zone Vegetation Quality <u>20</u> Right Bank <u>7</u> Left Bank <u>7</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1
Secondary Score <u>67</u>				

TOTAL SCORE

Date: 2.20.19.Analyst: Curtis MussonSignature: Curtis Musson

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Location: G3WA0010
Date: 2-20-2011
Sampler: Curtis Mussen

100 m: Latitude	_____
Longitude	_____
0 m: Latitude	_____
Longitude	_____
Substrates: Code key, draw proportionate habitat abundance. %	
	Snags <u>> 30%</u>
	Roots/undercut banks <u>< 12%</u>
	Leaf Packs (sc-mats) <u>< 1%</u>
	Aquatic Macrophytes <u>0</u>
	Pools total # observed = <u>3</u> # range expected = <u>2-3</u>
Average width <u>5.9</u> m	
Average depth <u>0.3</u> m	
Velocity measured at <u>0</u> meter mark.	
WQ & chemistry taken at <u>0</u> meter mark.	
Habitat Smothering: Note areas (on map) where sand or silt is smothering substrates, limiting habitability.	
Bank Stability: Note areas (on map) with unstable, eroding banks.	
Riparian Buffer Width: Note areas (on map) where natural vegetation is altered or eliminated.	

Plants observed / other notes:

1 m
2.4 Sec ≈ 0.4167

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

SAMPLE ID 79240 ORG ID 21K1V9A LATITUDE 30.80689954
 COUNTY Jackson STORET # G3WA0010 LONGITUDE -85.46034058
 DATE 2.20.19 TIME 14:55 SAMPLING AGENCY DEP
 SITE NAME Unnamed creek at woodrest Rd RECEIVING BODY OF WATER Home Creek
 FIELD ID/NAME G3WA0010

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <u>19%</u> Silviculture <u>3%</u> Field/Pasture <u>12%</u> Agricultural <u>40%</u> Residential <u>5%</u> Commercial <u>0.10%</u> Industry <u>1%</u> Water Other (Specify) <u>20%</u>								Landscape Development Intensity Index (LDI) <u>2.49</u>
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect <u>5.9</u> m wide <u>0.4</u> m/s <u>0.3</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>>18</u> Right Bank: <u>6</u>				Hydrologic Modification Score (per FT 3101) <u>3-4</u>				
High Water Mark: <u>1.0</u> + <u>0.3</u> = <u>1.3</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				
Artificially ☒ No ☐ Mostly recovered, more sinuous Channelized: ☐ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☐ Heavily Shaded ☒ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☐ Moderate ☒ Severe ☐ Algae Smothering: None ☒ Slight ☐ Moderate ☐ Severe ☐		
SUBSTRATE TYPE Assessment Tool: ☒ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon Invert PERI % Coverage # Times Sampled # Times Sampled Woody Debris (Snags) <u>736</u> <u>10</u> Undercut Banks / Roots <u>1</u> <u>1</u> Leaf Packs or Mats <u>1</u> <u>1</u> Aquatic Vegetation <u>0</u> Rock or Shell Rubble Sand <u>8</u> Mud / Muck / Silt Other Other			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.15</u> <u>16.57</u> <u>5.09</u> <u>8.1</u> <u>83.1</u> <u>38</u> <u>0.02</u> Mid: <u>0.3</u> <u>16.57</u> <u>5.09</u> <u>8.1</u> <u>83.1</u> <u>38</u> <u>0.02</u> Bottom: <u>0.5</u> <u>16.57</u> <u>5.09</u> <u>8.1</u> <u>83.1</u> <u>38</u> <u>0.02</u> Meter ID: <u>B10 #2</u> Water Odors: Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>See Field Sheet</u> Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:					
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☒ ☐ ☐ ☐ Aquatic Plants: ☒ ☐ ☐ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			Water Surface Oils Normal ☐ Sheen ☐ Globs ☐ Slick ☐ Other ☒ NONE Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐					
System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify)			AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.					
SAMPLING TEAM <u>Cortis Mussen</u> <u>Auril Wood-McGrath</u>			SIGNATURE: <u>Cortis Mussen</u>			DATE: <u>2-20-19</u>		

On Narmad creek at Wood Rest Rd.

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: G3WA0010					County: Jackson		Date: 2.20.19		Investigators: Curtis Mussion	
					STORET Station Number: G3WA0010					
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	
0	1	N	N		60	1	N	N		
	2					2				
	3					3				
	4					4				
	5			56		5				45
	6					6				
	7					7				
	8	N	N			8	N	N		
	9	N	N			9	N	N		
10	1	N	N		70	1	N	N		
	2					2				
	3					3				
	4			96		4				96
	5					5				
	6					6				
	7					7				
	8	N	N			8	N	N		
	9	N	N			9	N	N		
20	1	N	N		80	1	N	N		
	2					2				
	3					3				
	4			95		4				94
	5					5				
	6					6				
	7					7				
	8	N	N			8	N	N		
	9	N	N			9	N	N		
30	1	N	N		90	1	N	N		
	2					2				
	3					3				
	4			93		4				96
	5					5				
	6					6				
	7					7				
	8	N	N			8	N	N		
	9	N	N			9	N	N		
40	1	N	N		100	1	N	N		
	2					2				
	3					3				
	4			87		4				92
	5					5				
	6					6				
	7					7				
	8	N	N			8	N	N		
	9	N	N			9	N	N		
50	1	N	N		Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.					
	2									
	3									
	4			78						
	5									
	6									
	7									
	8	N	N							
	9	N	N							

Secchi depth **W3**
Estimated? **N**

points ranked 4-6 **0**
total points assessed **99**
% points ranked 4-6 **0**

Check accompanying data collected at same site/date.

Algal mat sample	
Linear Veg Survey	✓
Habitat Assessment	✓
SCI/Biorecon	✓
Water sample	✓

RQ-2019-02-04-41

Algal Thickness Rank	
N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

[illegible]

2019-02-40-41

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

Meter ID: Bio#2 RQ: 2019-02-04-40 Project: SMP / SCF #1 SCF #2

~~Boldly~~ ~~this~~
~~box~~ ~~there is~~
~~qualified data on~~
~~this form.~~

- 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#	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	2/20/2019	702	19.45	9.15	9.19	100.0	61.4	-	P/F	L/F
ICV	Curtis Musson	2/20/2019	704	19.43	9.202	9.16	99.5	61.4	-	P/F	L/F
CCV	Curtis Musson	2/20/2019	1713	20.05	9.898	9.38	92.3	67.6	-	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#	Lot #	Expir. Date	Standard μ hos/cm	Meter Reading μ hos/cm	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	2/20/2019	706	180403A	4-19	1000	1000	P/F	L/F
ICV	Curtis Musson	2/20/2019	707	180403A	4-19	1000	998	P/F	L/F
CCV	Curtis Musson	2/20/19	1716	1805F81	5-20	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#	Lot #	Expir. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	Curtis Musson	2/20/2019	711	180403C	10/2019	7.0	7.00	-9.8	P/F	L/F
Calibr.	Curtis Musson	2/20/2019	715	180621D	07/2019	4.0	4.00	161	P/F	L/F
Calibr.	Curtis Musson	2/20/2019	718	180621F	01/2020	10.0	10.01	-181	P/F	L/F
ICV	Curtis Musson	2/20/2019	722	180621D	7/19	4.0	4.03	160	P/F	L/F
CCV	Curtis Musson	2/20/2019	1719	180403	10/2019	7.00	6.95	-6	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#	Calibrated Value (0.00 or Offset), meters	ICV Value meters	Pass / Fail	Lab / Field
Pressure mode in air	Curtis Musson	2/20/19	709	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

Field Report Prepared By:

Amil Wood-McGrath

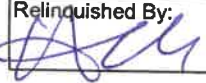
Collected By:

Curtis Musson / Amil Wood-McGrath

Sampling Agency:

FDED

Location		WIN ID / FILED ID →  G3WA0010		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2.20.19 Time 13:18	Eastern Central	Composite end Date — Time —	Bottle Group(s) (See pg 2)	
Field ID	Location	Unnamed Creek at Woodrest Rd		Matrix (type, e.g., Salt, Fresh, etc) Fresh	Diss. Oxygen 83.1	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)	A	
WIN/STORET #			Temp (C) 16.57	pH 5.09	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 38		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.02	Comments				
Location		Unnamed Creek @ Woodrest Rd		☐ Comp ☒ Grab	Collection (comp begin or grab) Date 2.20.19 Time 14:55	Eastern Central	Composite end Date — Time —	Bottle Group(s)	
Field ID	G3WA0010		Matrix (type, e.g., Salt, Fresh, etc) Fresh		Diss. Oxygen 83.1	☐ mg/L ☒ % sat	Total Res. Chlorine (mg/L)	B	
WIN/STORET #	G3WA0010		Temp (C) 16.57	pH 5.09	Sample Depth 0.15	☐ ft ☒ m	Sp. Conductance (umho/cm) 38		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) 0.02	Comments NO ALGAL ID				
Location				☐ Comp ☐ Grab	Collection (comp begin or grab) Date — Time —	Eastern Central	Composite end Date — Time —	Bottle Group(s)	
Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				
Location				☐ Comp ☐ Grab	Collection (comp begin or grab) Date — Time —	Eastern Central	Composite end Date — Time —	Bottle Group(s)	
Field ID			Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen	☐ mg/L ☐ % sat	Total Res. Chlorine (mg/L)		
WIN/STORET #			Temp (C)	pH	Sample Depth	☐ ft ☐ m	Sp. Conductance (umho/cm)		
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt)	Comments				

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
	2/20/19 16:40	HD	1 cooler 2 5cf Jugs	H/H	2-20-19 @ 16:40

Group: A	Bottle Type:	P-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ALKALINITY TURBIDITY W-CL-IC W-COLOR W-F W-SO4-IC W-TDS W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WO-THI	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	ECOLI-18QT						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP W-ICPMS		HNO3 LOT# NA8888888 EXP: 03/21/19				
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN W-TOC		H2SO4 LOT# SA8274850 EXP: 10/01/2019				
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: A	Bottle Type:	BG-1L	# of Bottles: 4	Preservative:	ICE	Enter Number of Bottles Sent to Lab	4
	W-PSNP-TQ						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALGAL_ID						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 2	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	

Group: B

Bottle Type:

PJ-2L

of Bottles: 2

Preservative:

Formalin

Enter Number of Bottles Sent to Lab

2

MI-FW-QLDC