

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

Boldly "X" this box if there are qualified data on this page.

Meter ID:

57126

RQ:

2019-080543

Project:

SEC unnamed

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.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

8/19

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	Thomsh	8/1/19	78	22.9	756	8.5	8.6	99.5	—	—	P/F	L/F
ICV	L	J	719	22.9	756	8.5	8.55	99.6	—	—	P/F	L/F
CCV	Brian Davis	8/1/19	1400	24.3	756	8.3	8.21	98.1	—	—	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 (Pro DSS 0.75 to 1.50); 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.	J Pamel	8/1/19	720	190430A	5/20	1000	1000	P/F	L/F
ICV	L	J	722	190319B	3/20	100	103.7	P/F	L/F
CCV	Brian Davis	8/1/19	1403	190430A	5/20	1000	1007	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	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	J Pamel	8/1/19	723	2904054	3/21	7.	24.4	7.01	72	P/F	L/F
Calibr.	L	J	724	2904050	3/21	4.	24.4	4.01	107.3	P/F	L/F
Calibr.	L	J	725	2901351	7/20	10.	24.7	10.00	242.6	P/F	L/F
ICV	L	J	726	2904050	3/21	4.0	24.5	4.06	103	P/F	L/F
CCV	B Davis	8/1/19	1420	2904054	3/21	7.0	24.5	7.08	-735	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)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification: _____

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last 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:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2019

Data Qualified?

Yes / No

WIN Station Name: Unnamed Branch above Alligator Cr.

Date:

8/7/19
(mm/dd/yyyy)

WIN/ Field ID: G4NE0288

WBID: 2156

Latitude: 30.576507

(Decimal Degrees)

County: Nassau

ORG ID: 21 FLA

Longitude: -81.82468

(Decimal Degrees)

Receiving Body of Water: Alligator Creek

RQ-2019-08-05-43

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment				
Brian Davis J. P. Smith						X	X	X	X	X	☒ Sample Container	☐ Van Dorn	☐ Pole		
											☐ Carboy	☐ Syringe			
											☐ Dipper	☐ Other			
											Depth Measured with <u>Stitch</u>				
											Equipment ID <u>Outlet #3</u>				
											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>Stitch</u>			Matrix: <u>Fresh</u> / Marine / DI						
Photos: Yes / No		Flow: No Flow / Intertidal / <u>Flowing</u> / NA				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 (PPTH)	Sp COND (umhos/cm)	Temp. (C°)					
EST	9:55	0.8	0.3	0.5	3.52	43.2	6.71	0.1	204	25.7					
CEN															
Biological Samples Collected: None <u>HA</u> SCI <u>RPS</u> Algae ID <u>LVS</u> 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>SA8344070</u>	<u>12/10/19</u>	☒ <2				
Metals		☒ W-ICPMS ☐ W-ICP					☒ Ice ☒ HNO3		<u>NA9099030</u>	<u>4/9/20</u>	☒ <2				
Filtered Nutrients		☒ W-PO4-F ☐ Field Filtered 0.45 um Filter					☒ Ice		<u>R7HA29007</u>						
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-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 KITT
NO plants
254 meters

WIN ID/Field ID:



G4NE0288

Unnamed Branch above Alligator cr.

Signature:

Jerome Pank

Date:

8/7/19

LIMS EVENT ID:

WIN Import-ID:

Enter Field Parameters, Verify Station ID in UIMS DMT:

QC Station ID, Field Parameters in UIMS DMT:

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data in WIN:

(Initials/Date)

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

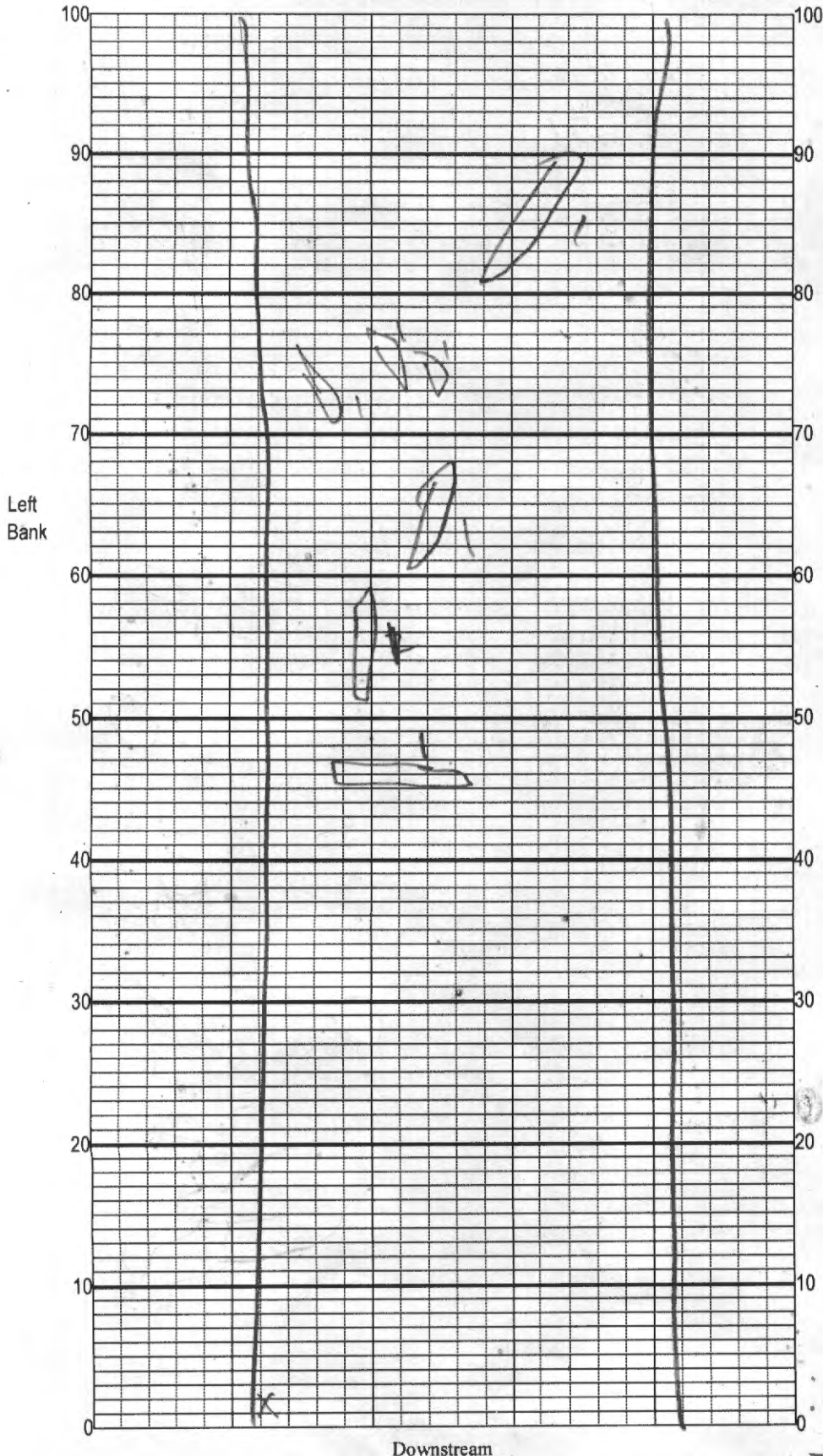
SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: <i>64NE0288</i>	DATE (MM/DD/YY): <i>8/7/19</i>	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: <i>Norfolk</i>	LOCATION: <i>Unnamed above Allisville</i>	FIELD ID/NAME:	

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 <i>3</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <i>3</i> 2 1
Substrate Availability <i>2</i>	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 <i>3</i> 2 1
Water Velocity <i>4</i>	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 <i>5</i> 4 3 2 1
Habitat Smothering <i>3</i> Primary Score <i>12</i>	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. <i>5</i> 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 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 <i>3</i>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <i>3</i> 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 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 root zone with raw, eroded areas.
Right Bank <i>4</i> Left Bank <i>4</i>	10 9	8 7 6	5 <i>4</i> <i>bank</i>	<i>5</i> 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 <i>10</i> Left Bank <i>10</i>	<i>10</i> 9	8 7 6	5 4	<i>5</i> 4 3 2 1
Riparian Zone Vegetation Quality	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.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <i>8</i> Left Bank <i>8</i>	10 9	8 7 6	5 4	3 2 1
Secondary Score <i>47</i>				

8059 TOTAL SCORE

Date: <i>8/7/19</i>	Analyst: <i>Jeremy Canale</i>	Signature: <i>Jeremy Canale</i>
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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: VA. above Masson
Date: 8/7/19
Sampler: JP/BO

100 m: Latitude _____	
Longitude _____	
0 m: Latitude _____	
Longitude _____	
Substrates: Code key, draw proportionate habitat abundance. %	
☒ Snags	<u>2</u>
☐ Roots/undercut banks	_____
☐ Leaf Packs (or mats)	_____
☐ Aquatic Macrophytes	_____
☐ _____	_____
☐ _____	_____
☐ Pools	total # observed = _____ # range expected = _____
Average width <u>3</u> m	
Average depth <u>0.8</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:

<2 M of Macrophytes was observed while doing the LVS? YES or NO

300-3 %

0.05m

2.5m wide
3m wide

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

SAMPLE ID _____ ORG ID 21FLA LATITUDE 30.5765
 COUNTY NASSAU STORET # 64NC0288 LONGITUDE 81.82468
 DATE 8/7/19 TIME 9:55 SAMPLING AGENCY PEAR NED
 SITE NAME Unnamed branch abv. Alligator Cr.
 FIELD ID/NAME _____ RECEIVING BODY OF WATER Alligator Creek

RIPARIAN ZONE / STREAM FEATURES

Meter ID: Stitch

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ Commercial ☐ Industry ☐ Other (Specify) ☐						Landscape Development Intensity Index (LDI) ☐	
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 _____ m wide _____ m/s <u>0.09</u> m/s _____ m/s _____ m deep <u>0.8</u> m deep _____ m deep	
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>18m</u> Right Bank: <u>18m</u>			Hydrologic Modification Score (per FT 3101) ☐				
High Water Mark: <u>0.9</u> + <u>0.8</u> = <u>1.7</u> (m) (above present water level) (present depth) (above bed)			Artificially Impounded ☐ Yes ☒ No				
Artificially Channelized: ☐ No ☐ Mostly recovered, more sinuous ☐ 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 % Coverage ☐ # Times Sampled ☐ PERI # Times Sampled			WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: <u>0.3</u> <u>25.7</u> <u>6.71</u> <u>3.5</u> <u>43</u> <u>204</u> <u>0.1</u> <u>0.5</u> Mid: _____ _____ _____ _____ _____ _____ _____ _____ Bottom: <u>0.8</u> _____ _____ _____ _____ _____ _____ _____ _____ System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) _____				
Woody Debris (Snags) <u>2</u> <u>MH</u> Undercut Banks / Roots _____ Leaf Packs or Mat _____ Aquatic Vegetation _____ Rock or Shell Rubble _____ Sand _____ Mud / Muck / Silt _____ Other _____ Other _____			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐		Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐		
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SA8344070</u> Exp: <u>12/10/19</u>		Color Tannic ☒ Green (Algae) ☐ Clear ☐ Other (Specify) _____		
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: _____ Exp: _____		Clarity Clear ☐ Slightly Turbid ☐ Turbid ☒ Opaque ☐		

ABUNDANCE Not Obs. Rare Common Abundant

Periphyton: ☒ ☐ ☐ ☐

Fish: ☐ ☒ ☐ ☐

Aquatic Plants: ☒ ☐ ☐ ☐

Iron/Sulfur Bacteria: ☐ ☐ ☐ ☒

AMBIENT FIELD CONDITIONS / NOTES:

Hydrologic Disturbance Scoring ☐ 1-2 ☐ 3-4 ☐ 5-6 ☐ 7-8 ☐ 9-10

☐ The antecedent hydrologic conditions have been met to my best knowledge.

SAMPLING TEAM Jeremy Pank / Brian Davis **SIGNATURE:** Jeremy Pank 8/7/19

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Unnamed above Alligator County: Nassau Date: 8/7/19 Investigators: Brian Pauls

STORET Station Number: 64NE0288

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	Y		60	1	N	Y		
	2					2				
	3					3				
	4					4				
	5			92		5			96	
	6					6				
	7					7				
	8					8				
	9					9				
10	1	N			70	1	X			
	2					2				
	3			96		3				
	4					4				
	5					5			96	
	6					6				
	7					7				
	8					8				
	9					9				
20	1	N			80	1	N			
	2					2				
	3					3				
	4			94		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1	N			90	1	X			
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1	N			100	1	N			
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1	N				1	N			
	2					2				
	3					3				
	4			96		4			96	
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				

Secchi depth 0.5
Estimated?

points ranked 4-6 0
total points assessed
% 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- 2019-08-05-43

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

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%.

Florida Department of Environmental Protection

Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. ParrishField Report Prepared By: Jeremy ParrishCollected By: Jeremy Parrish / Brian DavisSampling Agency: FL DEP NERDC

Locati	WIN ID/Field ID:  G4NE0288	☐ Comp ☒ Grab	Collection (comp begin or grab) Date <u>8/7/19</u> Time <u>955</u>	Eastern Central	Composite end Date _____ Time _____	Bottle Group(s) (See pg 2)
Field ID	Unnamed Branch above Alligator cr.	Matrix (type, e.g., Salt, Fresh, etc) <u>Fresh</u>		Diss. Oxygen <u>3.5</u>	☒ mg/L ☐ % sat	Total Res. Chlorine (mg/L)
WIN/S		Temp (C) <u>25.7</u>	pH <u>6.71</u>	Sample Depth <u>0.3</u>	☐ ft ☒ m	Sp. Conductance (umho/cm) <u>204</u>
Latitude	☐ dd ☐ dms	Longitude	☐ dd ☐ dms	Salinity (ppt) <u>0.1</u>	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	
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	
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: <u>Jeremy Parrish</u>	Date/Time: <u>8/7/19</u>	Shipping Method: <u>Adex 1500</u>	Number of Coolers Shipped: <u>1</u>	Received By: _____	Date/Time: _____
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Group: A	Bottle Type:	P-1L	# of Bottles: 3	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: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUITE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	NE-ALS-ECQ						
Group: A	Bottle Type:	BG-500ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	W-E8321-DI						
	W-E8321-MS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	HNO3	Enter Number of Bottles Sent to Lab	1
	W-ICP						
	W-ICPMS						
Group: A	Bottle Type:	P-500ML	# of Bottles: 3	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab	1
	W-NH3						
	W-NO2NO3						
	W-S-A-TP						
	W-TKN						
	W-TOC						
Group: A	Bottle Type:	P-125ML	# of Bottles: 3	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-PO4-F						
Group: A	Bottle Type:	BG-1L	# of Bottles: 8	Preservative:	ICE	Enter Number of Bottles Sent to Lab	3
	W-PSNP-TQ						
Group: B	Bottle Type:	PT-50ML	# of Bottles: 3	Preservative:	ICE	Enter Number of Bottles Sent to Lab	0
	ALGAL_ID						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 6	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	0

Group: B

Bottle Type:

PJ-2L

of Bottles: 6

Preservative:

Formalin

Enter Number of Bottles Sent to Lab

0

MI-FW-QLDC

