



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

Date Required?

Yes / No

WIN Station Name:

New River
Five Mile C. at SW 150th Blvd

Date: 05/10/2018

WIN/ Field ID:

GTNE097921630082

WBID:

3506B

Latitude:

29.956430 (mm/dd/yyyy) 30.10341

County:

Hatchee Bradford

ORG ID:

21FLA

Longitude:

82.384278 (Decimal Degrees) 82.1609

Receiving Body of Water:

Santa Fe River

RQ-2018-

05-07-31 (Decimal Degrees)

Sampling Team Members

J. Parrish
P. O'Connor

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

X X X X X

Sampling Equipment

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

Depth Measured with YSI

Equipment ID ORNO #7

Collection Method

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

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

Meter ID#

YSI

Matrix: Fresh / Marine / DI

Photos: Yes / No

Flow: No Flow / Interstitial / Flowing / 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	1200	0.2	0.1	0.75	4.1	45.5	4.1	0.06	139	20.14
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	<u>SA7341020</u>	<u>12-07-18</u>	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice	<u>R7HA4559</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-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			

Contains: 1:1 H2SO4
Lot No.: SA7341020
Expires: 12/07/18
See Safety Data Sheet (SDS)

Place Preservation (If Available)

Notes:

LAT/LONG RQ-2018-05-07-31
30.10381
82.16029

Signature:

JP

Date:

5/14/18

Enter Field Parameters, Verify Station ID In LIMS DMT:

JP 5/14/18

QC Station ID, Field Parameters In LIMS DMT:

BD 5/14/18

Scan/Save Field Sheets

5/14/18 BP

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

Waterbody: <u>New River @ CR125</u>	Date: <u>05-10-18</u>	County: <u>Bradford</u>	Storet Number: <u>21030082</u>
Analyst: <u>PO Connor</u>	Signature: _____		

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

[illegible]

SAMPLING AGENCY: NE ROC		STORET STATION NUMBER: 21030082	DATE (MM/DD/YY): 05-10-18	RECEIVING BODY OF WATER: Santa Fe
REMARKS:	COUNTY: Bradford	LOCATION: New River @ CR125		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 <u>10</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability <u>14</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>14</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>18</u> ----- Primary Score <u>56</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 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 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 <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>10</u> Left Bank <u>60</u>	10 9	8 7 6	5 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 <u>10</u> Left Bank <u>10</u> ----- Secondary Score <u>136</u> <u>80</u>	10 9	8 7 6	5 4	3 2 1

136 TOTAL SCORE

Date: <u>05-10-18</u>	Analyst: <u>P O'Connor</u>	Signature: <u>Pattkal</u>
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New River
CR125

Location:

Date:

Sampler:

05-10-18

P. O'Connor

100 m: Latitude _____
Longitude _____

0 m: Latitude 30.10381
Longitude 82.16029

Substrates: Code key, draw proportionate habitat abundance. %



Snags



Roots/undercut banks



Leaf Packs (or mats)



Aquatic Macrophytes



total # observed = _____
range expected = _____

Average width 1.5 m

Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ 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

RQ2018-05-10-31

12% Roots

12% Snags

Left Bank

0.2 m/s

0.15 m/s

0.1 m/s

1-2 m wide

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

SAMPLE ID B2000 ORG ID 21030087 LATITUDE 30.10348
 COUNTY B2000 STORET # 21030087 LONGITUDE 82.160936
 DATE 8/10/18 TIME 1200 SAMPLING AGENCY
 SITE NAME New River 125
 FIELD ID/NAME RECEIVING BODY OF WATER Santa Fe

RIPARIAN ZONE / STREAM FEATURES

Meter ID: YST 77

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 1.5 m wide 0.2 m/s 0.2 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>1m</u> + <u>0.2</u> = <u>1.2</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 <u>mucky</u>		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 Woody Debris (Snags) <u>12</u> Undercut Banks / Roots <u>12</u> Leaf Packs or Mat Aquatic Vegetation Rock or Shell Rubble..... Sand..... Mud / Muck / Silt <u>75%</u> 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>0.1</u> <u>20.14</u> <u>4.1</u> <u>4.1</u> <u>45.5</u> <u>139</u> <u>0.06</u> <u>0.25</u> Mid: <u>0.1</u> <u>20.14</u> <u>4.1</u> <u>4.1</u> <u>45.5</u> <u>139</u> <u>0.06</u> <u>0.25</u> Bottom: <u>0.1</u> <u>20.14</u> <u>4.1</u> <u>4.1</u> <u>45.5</u> <u>139</u> <u>0.06</u> <u>0.25</u> System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐		
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>SA 7341020</u> Exp: <u>12-07-18</u>	
Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: <u>SA 7341020</u> Exp: <u>12-07-18</u>		Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐		Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☐ Yes ☐ No Lot Number: <u>SA 7341020</u> Exp: <u>12-07-18</u>	

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

J. Parrish, P. O'Connor

SIGNATURE

[Signature]

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>Nov River @ 125</u>					County: <u>Bradford</u>		Date: <u>5/10/18</u>		Investigators: <u>J. Parnish</u>		
STORET Station Number: <u>21030082</u>											
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	96	60	1	N	N	96		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
10	1	N	N	96	70	1	N	N	96		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
20	1	N	N	96	80	1	N	N	96		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
30	1	N	N	96	90	1	N	N	96		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
40	1	N	N	96	100	1	N	N	96		
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
50	1	N	N	96		1	N	N			
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										

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%.

Secchi depth 0.25
Estimated?

points ranked 4-6
total points assessed
% points ranked 4-6

Check accompanying data collected at same site/date

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

RQ- 2018-05-07-31

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

Request Number: RQ-2018-05-07-31

Suwannee 3 SCI's

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Field Report Prepared By:

Collected By: Jo Parrish, BO'ConnorSampling Agency: DEAE NEED ROE

Location

WIN / Field ID:



G1NE0020

Rocky Creek at 156th av.

Field ID

WIN/STC

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms

Comments

Not Sampled

Composite end

Date

mg/L

Total Res. Chlorine

(mg/L)

Sp. Conductance

(umho/cm)

ft

m

Bottle Group(s)

(See pg 2)

Location

WIN /Field ID :



G1NE0919

Fivemile Cr. at SW 150th blvd.

Field ID

WIN/STORE

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms

Comments

NOT Sampled

Composite end

Date

mg/L

Total Res. Chlorine

(mg/L)

Sp. Conductance

(umho/cm)

ft

m

Bottle Group(s)

Location

New River @ CR125

Field ID 21030082

WIN/STORE # 21030082

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms

Comments

DO % 45.5

Composite end

Date

mg/L

Total Res. Chlorine

(mg/L)

Sp. Conductance

(umho/cm)

ft

m

Bottle Group(s)

AtB

Location

Field ID

WIN/STORE #

Latitude

☐ dd
☐ dms

Longitude

☐ dd
☐ dms

Comments

Composite end

Date

mg/L

Total Res. Chlorine

(mg/L)

Sp. Conductance

(umho/cm)

ft

m

Bottle Group(s)

Relinquished By:

Date/Time

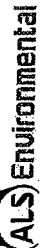
Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

Group: A	Bottle Type:	P-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	2
	ALKALINITY						
	TURBIDITY						
	W-CL-IC						
	W-COLOR						
	W-F						
	W-SO4-IC						
	W-TDS						
	W-TSS						
Group: A	Bottle Type:	BP-1L	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1
	CHLSUTE-W						
Group: A	Bottle Type:	P-250ML-WI-THI	# of Bottles: 2	Preservative:	ICE	Enter Number of Bottles Sent to Lab	1 to HCS JAX
	NE-ALS-ECQ						
Group: A	Bottle Type:	P-500ML	# of Bottles: 2	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: 2	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab	1
	W-RO4-F						
Group: B	Bottle Type:	PJ-2L	# of Bottles: 4	Preservative:	Formalin	Enter Number of Bottles Sent to Lab	2
	MI-FW-QLDC						



SR #

143 Philips Highway, Suite 200 Jacksonville, FL 32256 / Ph(904) 739-2277 / FAX (904) 739-2011

ALS Contact: Jerry Allen

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