



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
**Yes** / No

**WIN Station Name:** Unnamed Branch Above Alligator Cr. **Date:** 11/30/2020  
**WIN/Field ID:** G4NE0288 **WBID:** 2156 **ENR:** **Latitude:** 30.5767  
**County:** NASSAU **Org ID:** 21FLA **Longitude:** -81.8245  
**Receiving Body of Water:** Nassau - St. Marys **RQ:** 2020-11-30-38

| Sampling Team Members               |                | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|----------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Jeremy Parrish | x               |                   | x             |              |                    |
| <input checked="" type="checkbox"/> | Brian Davis    |                 | x                 |               | x            | x                  |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                         |
|------------------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy         |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn       |
| <input type="checkbox"/> Syringe                     | <input type="checkbox"/> Pole           |
| Depth measured with: Meter                           |                                         |
| Secchi Equipment ID:                                 |                                         |
| Collection Method                                    |                                         |
| <input checked="" type="checkbox"/> Wading           | <input type="checkbox"/> Canoe/Kayak    |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor |
| <input type="checkbox"/> Other _____                 | <input type="checkbox"/> Gasoline Motor |

|                                                                                                                                                                                                                                                                                              |  |                   |  |                  |  |                                  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|------------------|--|----------------------------------|--|--|--|--|--|
| <b>Water Level:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                                      |  |                   |  |                  |  | <b>Meter ID#</b> DESI            |  |  |  |  |  |
| <b>Photos:</b> NO                                                                                                                                                                                                                                                                            |  | <b>Flow:</b> FLOW |  | <b>Tide:</b> N/A |  | <b>Tide Times:</b><br>High: Low: |  |  |  |  |  |
| <b>Biological Samples Collected:</b> <input type="checkbox"/> None <input checked="" type="checkbox"/> HA <input type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input checked="" type="checkbox"/> LVS <input type="checkbox"/> LVI Other: |  |                   |  |                  |  |                                  |  |  |  |  |  |
| <b>SBIO ID Numbers:</b>                                                                                                                                                                                                                                                                      |  |                   |  |                  |  |                                  |  |  |  |  |  |
| <b>Notes:</b>                                                                                                                                                                                                                                                                                |  |                   |  |                  |  |                                  |  |  |  |  |  |

## Duplicate Sample

|                                   |                  |                      |              |
|-----------------------------------|------------------|----------------------|--------------|
| <b>Time Zone:</b> EST             | <b>Time:</b> N/A | <b>Field ID:</b> N/A | (WIN ID_DUP) |
| <b>WIN DMT Activity ID:</b> _____ |                  |                      |              |

## Blank

|                         |                  |                          |                       |
|-------------------------|------------------|--------------------------|-----------------------|
| <b>Time Zone:</b> _____ | <b>Time:</b> N/A | <b>Field ID:</b> N/A     | (Blank Type_DDDMMYYY) |
| <b>DI Source:</b> N/A   |                  | <b>Location:</b> N/A     |                       |
| <b>DI Type:</b> N/A     |                  | <b>Equipment ID:</b> N/A |                       |

**LIMS EVENT ID:** \_\_\_\_\_ **WIN Import ID:** \_\_\_\_\_  
**Enter Field Parameters, Verify Station ID In LIMS DMT:** \_\_\_\_\_ **QC Station ID, Field Parameters In LIMS DMT:** \_\_\_\_\_  
(Initials/Date) (Initials/Date)  
**Scan/Save Field Sheets** \_\_\_\_\_ **Migrate Data to WIN:** \_\_\_\_\_ **Verify Data In WIN:** \_\_\_\_\_  
(Initials/Date) (Initials/Date) (Initials/Date)



RQ-2020-11-30-38

Customer: WQAP

Project ID: SMP

Collected By: Jeremy Parrish, Brian Davis

Field Report Prepared By: Jeremy Parrish

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NE0288

Location: Unnamed Branch Above Alligator Cr.

Comments: Microbiology sample(s) submitted to contract laboratory

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

| Date       | Time         | DO (mg/L) | DO (%SAT) | Temp. (C°) | pH   | Sample Depth (m) | Secchi Disk (m)                         | Total Depth (m) | Sp COND (µmhos/cm) | Salinity (PPTH) |
|------------|--------------|-----------|-----------|------------|------|------------------|-----------------------------------------|-----------------|--------------------|-----------------|
| 11/30/2020 | 10:30<br>EST | 4.81      | 51.6      | 18.7       | 7.17 | 0.3              | 0.4<br><input type="checkbox"/> VOB (S) | 0.5             | 326                | 0.16            |

Central Lab please use top row for login purposes

|  |     |  |  |  |  |  |  |  |  |  |
|--|-----|--|--|--|--|--|--|--|--|--|
|  |     |  |  |  |  |  |  |  |  |  |
|  | EST |  |  |  |  |  |  |  |  |  |

| Parameter Suite                    | Parameter Methods                                                                                                                                                                                                                                        | Preservation                                                                       | pH Check                               | # Bottles sent to Lab | Bottle Group |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------|-----------------------|--------------|
| Preserved Nutrients (P-500ML)      | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                                                                          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4* | <input checked="" type="checkbox"/> <2 | 1                     | B            |
|                                    | Lot # Sa0038110 Exp: 2/7/21                                                                                                                                                                                                                              |                                                                                    |                                        |                       |              |
| Metals (P-500ML)                   | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD                                                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*  | <input checked="" type="checkbox"/> <2 | 1                     | B            |
|                                    | Lot # Sa9354060 Exp: 12/20/20                                                                                                                                                                                                                            |                                                                                    |                                        |                       |              |
| Filtered Nutrients (P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                                                            | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | B            |
|                                    | Filter Lot # Rna98003                                                                                                                                                                                                                                    |                                                                                    |                                        |                       |              |
|                                    | Syringe Lot #                                                                                                                                                                                                                                            |                                                                                    |                                        |                       |              |
| Chlorophyll (BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | B            |
| Physical/Aggregate (Fresh) (P-1L)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                                                                          | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | B            |
| Physical/Aggregate (Marine) (P-1L) | <input type="checkbox"/> Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Macroinvertebrates (PJ-2L)         | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                                                                      | <input type="checkbox"/> Formalin                                                  |                                        |                       |              |
| Periphyton (PT-50ML)               | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                        | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Microbiology (Contract Lab Bottle) | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input checked="" type="checkbox"/> Contract Lab                                                                                      | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | B            |
| Molecular (QPCR-P-500ML)           | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD                                                                             | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA ( 5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
|                                    |                                                                                                                                                                                                                                                          | <input type="checkbox"/> Ice                                                       |                                        |                       |              |

Name:  
Jeremy Parrish  
Brian Davis

Signature:

Jeremy Parrish

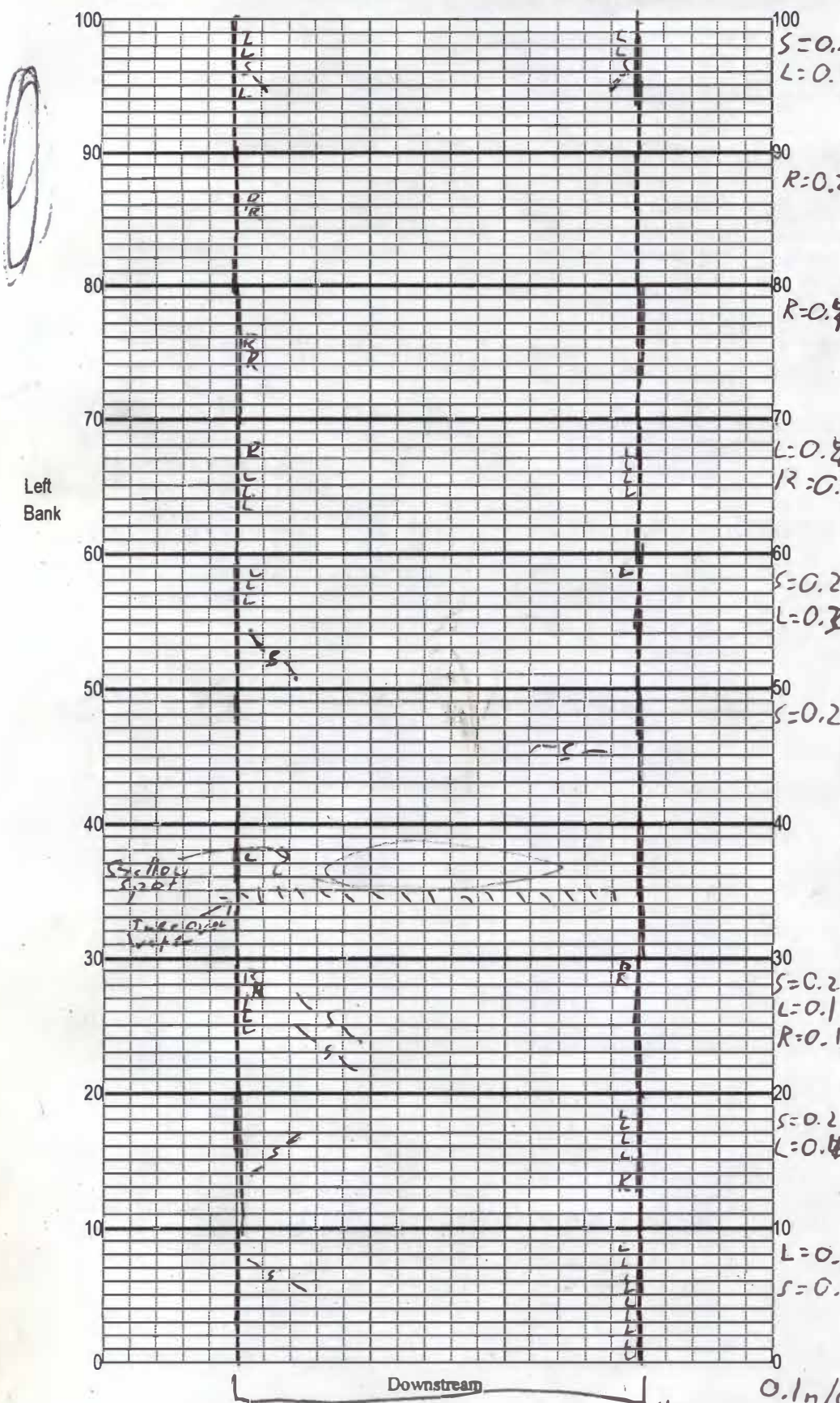
Date:

11/30/20

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution

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



S=0.5 L=0.4 Location: Unmarked Branch Above Alligator Creek

Date: 11/30/20

Sampler: Brian Davis

100 m: Latitude \_\_\_\_\_  
Longitude \_\_\_\_\_  
0 m: Latitude \_\_\_\_\_  
Longitude \_\_\_\_\_

| Substrates: Code key, draw proportionate habitat abundance. |                      | %                                                          |
|-------------------------------------------------------------|----------------------|------------------------------------------------------------|
| <input checked="" type="checkbox"/> S                       | Snags                | < 1                                                        |
| <input checked="" type="checkbox"/> R                       | Roots/undercut banks | < 1                                                        |
| <input checked="" type="checkbox"/> L                       | Leaf Packs (or mats) | < 1                                                        |
| <input type="checkbox"/>                                    | Aquatic Macrophytes  |                                                            |
| <input type="checkbox"/>                                    |                      |                                                            |
| <input type="checkbox"/>                                    |                      |                                                            |
| <input type="checkbox"/> P                                  | Pools                | total # observed = <u>0</u><br># range expected = <u>2</u> |

Average width 4 m  
Average depth 0.5 m

Velocity measured at 100/0 meter mark.

WQ & chemistry taken at 0 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:

L = 2.0  
R = 0.8  
S = 1.5

0.1 m/s  
0.5 m deep

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

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

|                                      |                          |                                                          |                                     |                                                    |
|--------------------------------------|--------------------------|----------------------------------------------------------|-------------------------------------|----------------------------------------------------|
| SAMPLING AGENCY:<br><u>FDEP DEAR</u> |                          | STORET STATION NUMBER:<br><u>GAVE 0288</u>               | DATE (MM/DD/YY):<br><u>11/30/20</u> | RECEIVING BODY OF WATER:<br><u>Alligator Creek</u> |
| REMARKS:                             | COUNTY:<br><u>Nassau</u> | LOCATION:<br><u>Unnamed Branch above Alligator Creek</u> | 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>4</u>                                                    | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 8 7 6                                                                                                                                 | 5 <u>4</u> 3 2 1                                                                                                              |
| Substrate Availability <u>4</u>                                                 | Greater than 30% major productive habitat present at site<br>20 19 18 17 16                                                                                                                                       | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11                                                                                        | 6% to 15% major productive habitat<br>10 9 8 7 6                                                                                           | Less than 5% major productive habitat<br>5 <u>4</u> 3 2 1                                                                     |
| Water Velocity <u>1a</u>                                                        | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br>20 19 18 17 16                                                                                                    | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 12 11                                                            | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br><u>10</u> 9 8 7 6                                       | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1      |
| Habitat Smothering <u>4</u><br>-----<br>Primary Score <u>22</u>                 | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>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.<br>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).<br>10 9 8 7 6         | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>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>5</u>                                              | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 8 7 <u>6</u>                                                                                                                          | 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>5</u><br>Left Bank <u>5</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><br>Left Bank <u>10</u>                                     | <u>10</u> 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>6</u><br>Left Bank <u>6</u><br>-----<br>Secondary Score <u>50</u> | 10 9                                                                                                                                                                                                              | <u>8</u> 7 <u>6</u>                                                                                                                                            | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |

72

TOTAL SCORE

|                       |                             |                            |
|-----------------------|-----------------------------|----------------------------|
| Date: <u>11/30/20</u> | Analyst: <u>Brian Davis</u> | Signature: <u>B. Davis</u> |
|-----------------------|-----------------------------|----------------------------|

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m<sup>2</sup> 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]

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

SAMPLE ID \_\_\_\_\_ ORG ID 21FLA LATITUDE \_\_\_\_\_  
 COUNTY Nassau STORET # 64NCO288 LONGITUDE \_\_\_\_\_  
 DATE 11/30/20 TIME 1030 SAMPLING AGENCY FDEP DEAR NEPOC  
 SITE NAME Unnamed creek abt. Alligator Creek  
 FIELD ID/NAME \_\_\_\_\_ RECEIVING BODY OF WATER Allig. creek

## RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                                                                                                                                                                                       |  |  |                                                                                                  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--------------------------------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                       |  |  | <b>Landscape Development Intensity Index (LDI)</b><br><input type="checkbox"/>                   |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                      |  |  |  |                                                                                                                                                                                                       |  |  | Typical Width (m) <u>4</u> m wide<br>Depth (m) <u>0.1</u> m/s<br>Velocity (m/sec) <u>0.5</u> m/s |
| Width of Riparian Vegetation (m) on Each Buffer Side<br>Left Bank: <u>18</u> Right Bank: <u>18</u>                                                                                                                                                                                                                                                                                                      |  |  |  | Hydrologic Modification Score (per FT 3101) <input type="checkbox"/>                                                                                                                                  |  |  |                                                                                                  |
| High Water Mark: <u>0.3</u> + <u>0.5</u> = <u>0.8</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                    |  |  |  | Artificially Impounded<br><input type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                    |  |  |                                                                                                  |
| Artificially <input type="checkbox"/> No <input checked="" type="checkbox"/> Mostly recovered, more sinuous<br>Channelized: <input checked="" type="checkbox"/> Some recovery <input checked="" type="checkbox"/> Recent, severe                                                                                                                                                                        |  |  |  | Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%) |  |  |                                                                                                  |

## SEDIMENT / SUBSTRATE

|                                                                                                                                                                          |                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sediment Oils</b><br><input type="checkbox"/> Absent <input checked="" type="checkbox"/> Slight<br><input type="checkbox"/> Moderate <input type="checkbox"/> Profuse | <b>Sediment Odors</b><br><input type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum<br><input type="checkbox"/> Chemical <input checked="" type="checkbox"/> Anaerobic<br><input type="checkbox"/> Other (Specify): _____ | <b>Smothering of Substrates</b><br>Sand Smothering: None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input checked="" type="checkbox"/><br>Algae Smothering: None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SUBSTRATE TYPE

Assessment Tool: ☐ SCI ☒ RPS ☒ LVS  
☐ LCI ☐ BioRecon

|                        | % Coverage | INVERT<br># Times Sampled | PERI<br># Times Sampled |
|------------------------|------------|---------------------------|-------------------------|
| Woody Debris (Snags)   |            |                           |                         |
| Undercut Banks / Roots | <u>1</u>   |                           |                         |
| Leaf Packs or Mat      | <u>1</u>   |                           |                         |
| Aquatic Vegetation     |            |                           |                         |
| Rock or Shell Rubble   |            |                           |                         |
| Sand                   |            |                           |                         |
| Mud / Muck / Silt      | <u>98</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>18.7</u> | <u>18.7</u> | <u>7.17</u> | <u>4.55</u> | <u>49.0</u>  | <u>326</u>      | <u>0.16</u>    | <u>0.4</u> |
| Mid                   | <u>0.3</u>  | <u>18.7</u> | <u>7.17</u> | <u>4.81</u> | <u>51.6</u>  | <u>326</u>      | <u>0.16</u>    | <u>0.4</u> |
| Bottom                |             |             |             |             |              |                 |                |            |
| Meter ID: <u>Desi</u> |             |             |             |             |              |                 |                | <u>0.5</u> |

Water Odors Normal ☒ Petroleum ☐  
 Sewage ☐ Chemical ☐ Other ☒

Water Sample Taken? ☒ Yes ☐ No  
 Sample Preserved? ☒ Yes ☐ No  
 Lot Number: \_\_\_\_\_ Exp: \_\_\_\_\_

Algae Sample Taken? ☐ Yes ☒ No  
 Sample Preserved? ☐ Yes ☐ No  
 Lot Number: \_\_\_\_\_ Exp: \_\_\_\_\_

Water Surface Oils Normal ☒ Sheen ☐  
 Globbs ☐ Stick ☐ Other ☐

Color Tannic ☒ Green (Algae) ☐  
 Clear ☐ Other (Specify) ☐

Clarity Clear ☐ Slightly Turbid ☐  
 Turbid ☒ Opaque ☐

## ABUNDANCE

|                       | Not Obs.                            | Rare                                | Common                   | Abundant                 |
|-----------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|
| Periphyton:           | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Fish:                 | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Aquatic Plants:       | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> | <input type="checkbox"/> |
| Iron/Sulfur Bacteria: | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

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

Jeremy Parish / Brian Peris

## SIGNATURE:

Jeremy Parish

## DATE:

11/30/20

## DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: Unnamed abv. Alligator cr. County: Nassau Date: 11/30/20 Investigator: J. Parnish

| Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover | Transect (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover |
|--------------|----------------------------|----------------------------------|-----------|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------|--------------|
| 0            | 1                          | N                                | N         |              | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  | N         |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  | N         |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  | N         |              |
|              | 5                          |                                  | N         | 80           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  | N         | 92           |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  | N         |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  | N         |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  | N         |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  | N         |              |
| 10           | 1                          | N                                | N         |              | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  | N         |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  | N         |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  | N         |              |
|              | 5                          |                                  | N         | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  | N         | 92           |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  | N         |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  | N         |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  | N         |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  | N         |              |
| 20           | 1                          | N                                | N         |              | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  | N         |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  | N         |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  | N         |              |
|              | 5                          |                                  | N         | 92           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  | N         | 96           |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  | N         |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  | N         |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  | N         |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  | N         |              |
| 30           | 1                          | N                                | N         |              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 1                          | N                                | N         |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  | N         |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  | N         |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  | N         |              |
|              | 5                          |                                  | N         | 92           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  | N         | 92           |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  | N         |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  | N         |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  | N         |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  | N         |              |
| 40           | 1                          | N                                | N         |              | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 1                          | N                                | N         |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 2                          |                                  | N         |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3                          |                                  | N         |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4                          |                                  | N         |              |
|              | 5                          |                                  | N         | 92           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5                          |                                  | N         | 94           |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6                          |                                  | N         |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7                          |                                  | N         |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 8                          |                                  | N         |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9                          |                                  | N         |              |
| 50           | 1                          | N                                | N         |              | <p>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.</p> <p>Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.</p> <p>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.</p> <p>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 &gt;20%.</p> |                            |                                  |           |              |
|              | 2                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 3                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 4                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 5                          |                                  | N         | 94           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 6                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 7                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 8                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |
|              | 9                          |                                  | N         |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |                                  |           |              |

STORET Station Number:

GNE0288

Secchi depth 0.4  
Estimated? No

# points ranked 4-6 0  
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- 2020-11-30-38

## 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                                  |