



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

PAGE \_\_\_\_ OF \_\_\_\_

February 2016

Data Qualified?  
Yes / No

STORET Station Name: Sand Hill Creek @ Hwy 358 Date: 4-5-2016  
(mm/dd/yyyy)

STORET Station ID: 61TLHR0009 Latitude: 29.69886  
(Decimal Degrees)

WBID: 3674 RQ - 2016-03-14-56 ORG ID: 21FLTLHR Longitude: -83.23288  
(Decimal Degrees)

Receiving Body of Water: St. Johns River Field ID: 61TLHR0009 County: Dixie

| Sampling Team Members |  | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-----------------------|--|-----------------|-------------------|---------------|--------------|--------------------|
| Chris Green           |  | ✓               | ✓                 | ✓             | ✓            | ✓                  |
| Colby Marshall        |  |                 |                   | ✓             |              |                    |
|                       |  |                 |                   |               |              |                    |
|                       |  |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                   |                               |
|------------------------------------------------------|-----------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Van Dorn | <input type="checkbox"/> Pole |
| <input type="checkbox"/> Carboy                      | <input type="checkbox"/> Syringe  |                               |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Other    |                               |
| Equipment ID                                         |                                   |                               |

| Collection Method                           |                                         |
|---------------------------------------------|-----------------------------------------|
| <input checked="" type="checkbox"/> Wading  | <input type="checkbox"/> Via Boat       |
| <input type="checkbox"/> From Shore         | <input type="checkbox"/> Canoe/Kayak    |
| <input type="checkbox"/> Other (note below) | <input type="checkbox"/> Electric Motor |
|                                             | <input type="checkbox"/> Gasoline Motor |

| Water Level: Dry / Low / <u>Normal</u> / High / Flooded |       |                          |                          |                         |           | Matrix: <u>Fresh</u> / Marine / DI |                |                                    |                    |             |  |
|---------------------------------------------------------|-------|--------------------------|--------------------------|-------------------------|-----------|------------------------------------|----------------|------------------------------------|--------------------|-------------|--|
| Meter ID# <u>12 YSI 600 XLM</u>                         |       |                          |                          | Photos: <u>Yes</u> / No |           |                                    |                | Tide Falling: Yes / No / <u>NA</u> |                    |             |  |
| Time Zone                                               | Time  | Sample Depth (m)         | Total Depth (m)          | DO (mg/L)               | DO (%SAT) | pH                                 | Salinity (ppt) | Secchi Disk (m)                    | Sp COND (µmhos/cm) | Temp. (C°)  |  |
| EST                                                     | 11:10 | <u>0.2</u><br><u>0.3</u> | <u>0.4</u><br><u>0.7</u> | <u>4.4</u>              | <u>47</u> | <u>7.2</u>                         |                | <u>0.36</u><br><u>0.75</u>         | <u>402</u>         | <u>18.4</u> |  |
| CEN                                                     |       |                          |                          |                         |           |                                    |                |                                    |                    |             |  |

| Biological Samples Collected: |                                                                                                                                                                                                                        | None                                                                              | <u>HA</u>         | <u>SCI</u>  | <u>LVS</u>                             | <u>RPS</u> | LVI | Other |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------|----------------------------------------|------------|-----|-------|
| Parameter Suite               | Parameter Methods                                                                                                                                                                                                      | Preservation                                                                      | Acid Lot#         | Expiration  | pH Check                               |            |     |       |
| Preserved Nutrients           | <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 | <u>SA-5259020</u> | <u>9/16</u> | <input checked="" type="checkbox"/> <2 |            |     |       |
| Metals                        | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                        | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |                   |             | <input type="checkbox"/> <2            |            |     |       |
| Filtered Nutrients            | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                                          | <input checked="" type="checkbox"/> Ice                                           |                   |             |                                        |            |     |       |
| Chlorophyll                   | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                         | <input checked="" type="checkbox"/> Ice                                           |                   |             |                                        |            |     |       |
| BOD                           | <input checked="" type="checkbox"/> BOD-UNIN                                                                                                                                                                           | <input checked="" type="checkbox"/> Ice                                           |                   |             |                                        |            |     |       |
| Physical/Aggregate (Kit A/C)  | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-CHC / W-COLOR / W-SO4-IC / W-TDS                                                                                                          | <input checked="" type="checkbox"/> Ice                                           |                   |             |                                        |            |     |       |
| Physical/Aggregate (Kit B/D)  | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                                          | <input type="checkbox"/> Ice                                                      |                   |             |                                        |            |     |       |
| Macroinvertebrates            | <input checked="" type="checkbox"/> MI-FW-QLDC                                                                                                                                                                         | <input checked="" type="checkbox"/> Formalin                                      |                   |             |                                        |            |     |       |
| Microbiology                  | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococcus <input type="checkbox"/> QPCR                                                                                    | <input type="checkbox"/> Ice                                                      |                   |             |                                        |            |     |       |
| Periphyton                    | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                      | <input type="checkbox"/> Ice                                                      |                   |             |                                        |            |     |       |
| Pesticides                    | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-PYR-AA-R<br><input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH | <input type="checkbox"/> Ice <input type="checkbox"/> Other                       |                   |             |                                        |            |     |       |

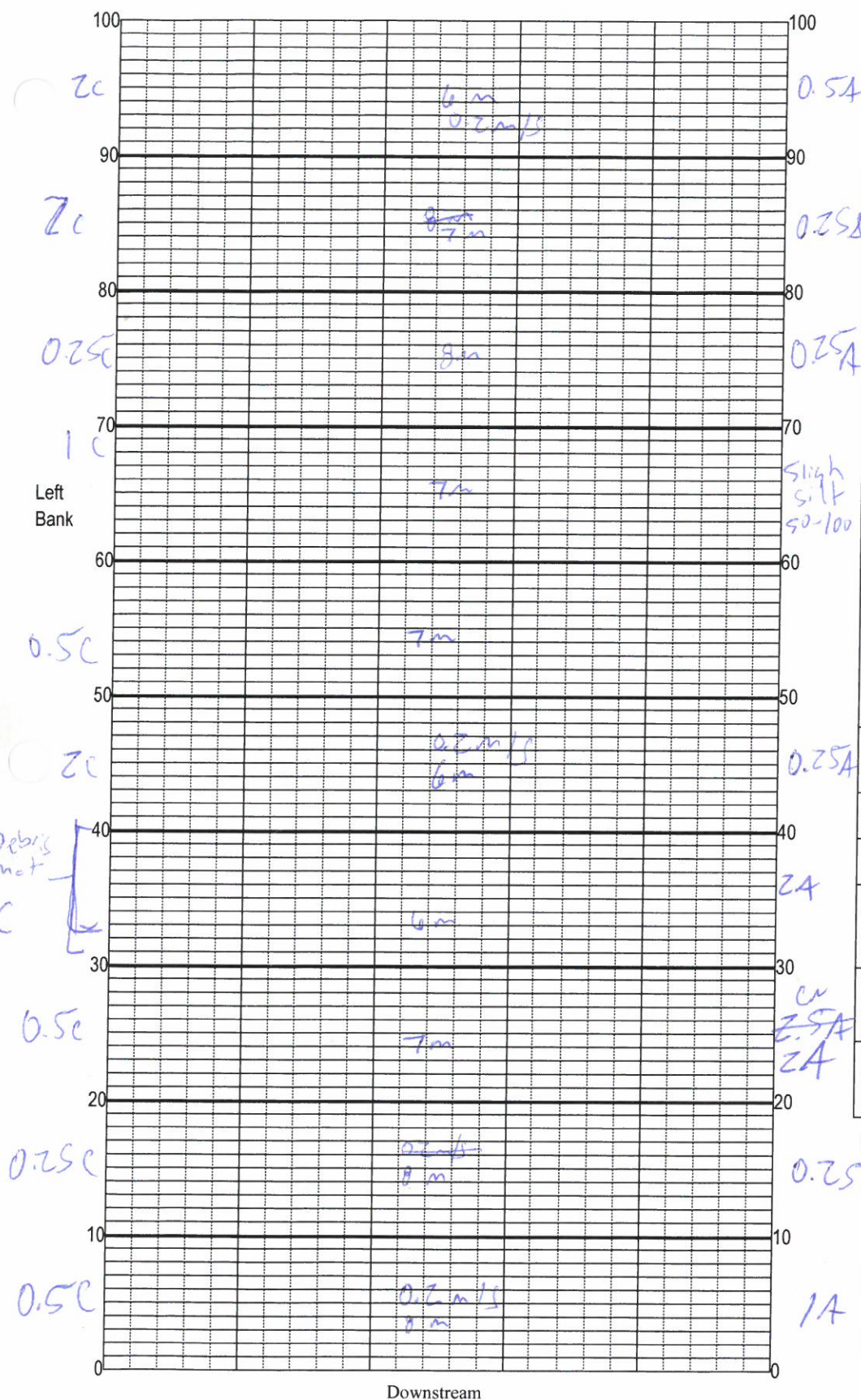
|                              |                                    |
|------------------------------|------------------------------------|
| Notes:<br><u>SCI - 11:40</u> | Place Label Here<br>(If Available) |
|------------------------------|------------------------------------|

|                               |                       |
|-------------------------------|-----------------------|
| Signature: <u>[Signature]</u> | Date: <u>4-5-2016</u> |
|-------------------------------|-----------------------|

Field Parameters Entered into LIMS: CM 6/15/16 (Initials/Date) Field Parameters QC in LIMS: CM 6-16-16 (Initials/Date)  
Date Migrated to STORET: CM 7/1/16 (Initials/Date) Field Sheets Scanned/Saved: CM 7-21-16 (Initials/Date)



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



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

Location: Sandhill Creek @ Hwy 358  
Date: 4-5-16  
Sampler: Marshall/Green

|                                                                                         |                            |
|-----------------------------------------------------------------------------------------|----------------------------|
| 100 m: Latitude _____                                                                   | Longitude _____            |
| 0 m: Latitude _____                                                                     | Longitude _____            |
| Substrates: Code key, draw proportionate habitat abundance. %                           |                            |
| <u>A</u>                                                                                | Snags _____                |
| <u>B</u>                                                                                | Roots/undercut banks _____ |
| <u>C</u>                                                                                | Leaf Packs (or mats) _____ |
| <u>D</u>                                                                                | Aquatic Macrophytes _____  |
| <u>E</u>                                                                                | _____                      |
|                                                                                         | _____                      |
|                                                                                         | total # observed = _____   |
|                                                                                         | # range expected = _____   |
| Average width <u>7</u> m                                                                |                            |
| Average depth <u>0.7</u> m                                                              |                            |
| Velocity measured at <u>50</u> meter mark.                                              |                            |
| WQ & chemistry taken at <u>50</u> meter mark.                                           |                            |
| Habitat Smothering: <u>slight</u>                                                       |                            |
| Note areas (on map) where sand or silt is smothering substrates, limiting habitability. |                            |
| Bank Stability: <u>+++</u>                                                              |                            |
| Note areas (on map) with unstable, eroding banks. <u>+++</u>                            |                            |
| Riparian Buffer Width: <u>&gt;18m</u>                                                   |                            |
| Note areas (on map) where natural vegetation is altered or eliminated. <u>&gt;18m</u>   |                            |

Plants observed / other notes:

1A

Some Alternanthera sp. since

1A

Hydrocotyl sp. since



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

SAMPLE ID \_\_\_\_\_ ORG ID ZIFUAR ZIFUTUA LATITUDE 29.67886  
 COUNTY Dixie STORET # GLT4R0007 LONGITUDE -83.23289  
 DATE 4-5-16 TIME 140 SAMPLING AGENCY 8034  
 TE NAME Sandhill Creek @ Hwy 358  
 FIELD ID/NAME GLT4R0007 RECEIVING BODY OF WATER Steinhatchee River

RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                                                                                                                                                                                                    |  |  |  |                                                                                                                                                                                                           |  |  |  |                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <u>90</u> Silviculture <u>10</u> Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industry _____ Other (Specify) _____                                                                                                            |  |  |  |                                                                                                                                                                                                           |  |  |  | <b>Landscape Development Intensity Index (LDI)</b><br>_____ |
| Local Watershed Erosion (select one): <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |  |  |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br>_____ m wide<br><u>0.2</u> m/s <u>0.2</u> m/s <u>0.2</u> m/s<br><u>0.7</u> m deep <u>0.8</u> m deep <u>0.4</u> m deep                     |  |  |  |                                                             |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank: <u>&gt;18</u> Right Bank: <u>&gt;18</u>                                                                                                                                                                                                                                                  |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) _____                                                                                                                                                  |  |  |  |                                                             |
| <b>High Water Mark:</b> <u>0.5</u> + <u>0.7</u> = <u>1.2</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                        |  |  |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                      |  |  |  |                                                             |
| <b>Artificially Channelized:</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Some recovery <input type="checkbox"/> Mostly recovered, more sinuous <input type="checkbox"/> Recent, severe                                                                                                                                                     |  |  |  | <b>Canopy Cover %</b> <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%) <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 type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Profuse                                                                                                                                                                                                                                                                                                                                                                                                  |  | <b>Sediment Odors</b><br><input checked="" type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Smothering of Substrates</b><br>Sand Smothering: None <input checked="" type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Algae Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/>         |  |
| <b>SUBSTRATE TYPE</b><br>Assessment Tool: <input checked="" type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon                                                                                                                                                                                                                                                                                                                                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>WATER QUALITY</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)<br>Top: <u>0.3</u> <u>18.4</u> <u>7.2</u> <u>4.4</u> <u>47</u> <u>402</u> _____ <u>0.7</u><br>Mid: _____ _____ _____ _____ _____ _____ _____ <input checked="" type="checkbox"/> VOB<br>Bottom: _____ _____ _____ _____ _____ _____ _____ _____<br>Meter ID: <u>600 x 1/2" #12</u> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |
| Woody Debris (Snags) <u>0.2</u> <u>7</u> _____<br>Undercut Banks / Roots _____<br>Leaf Packs or Mat ..... <u>1.4</u> <u>7</u> _____<br>Aquatic Vegetation ..... _____<br>Rock or Shell Rubble.. _____<br>Sand..... <u>97.7</u> <u>6</u> _____<br>Mud / Muck / Silt ..... _____<br>Other ..... _____<br>Other ..... _____                                                                                                                                                                                                                                    |  | <b>Water Odors</b> Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/> Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/><br>Water Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____<br>Algae Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____ |                                                                                                                                                                                                                                                                                                                                                                                                            | <b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/><br><b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) _____<br><b>Clarity</b> Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/> |  |
| <b>ABUNDANCE</b><br>Not Obs. Rare Common Abundant<br>Periphyton: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Fish: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Aquatic Plants: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) _____<br><b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |

SAMPLING TEAM Green/Marshall SIGNATURE: [Signature] DATE: 4-5-16



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

Site: Sand Hill Creek @ Hwy 358 County: Pixie Date: 4/5/14 Investigators: Marshall / Green

STORET Station Number: GITHR0009

| 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                                |           |              | 60           | 1                          | N                                |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 94           |              | 5                          |                                  |           | 95           |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |  |
| 10           | 1                          |                                  |           |              | 70           | 1                          |                                  |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 95           |              | 5                          |                                  |           | 99           |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |  |
| 20           | 1                          |                                  |           |              | 80           | 1                          |                                  |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 93           |              | 5                          |                                  |           | 94           |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |  |
| 30           | 1                          |                                  |           |              | 90           | 1                          |                                  |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 94           |              | 5                          |                                  |           | 95           |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |  |
| 40           | 1                          |                                  |           |              | 100          | 1                          |                                  |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 93           |              | 5                          |                                  |           | 96           |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |  |
| 50           | 1                          |                                  |           |              |              | 1                          |                                  |           |              |  |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |  |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |  |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |  |
|              | 5                          |                                  |           | 94           |              | 5                          |                                  |           |              |  |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |  |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |  |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |  |
|              | 9                          |                                  |           |              |              | 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 0.75  
Estimated? NA

# points ranked 4-6 NA  
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- 2016-03-14-54

| 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                                  |



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

|                              |                      |                                            |                                  |                                                   |
|------------------------------|----------------------|--------------------------------------------|----------------------------------|---------------------------------------------------|
| SAMPLING AGENCY: <u>8034</u> |                      | STORET STATION NUMBER: <u>G1TLHR0009</u>   | DATE (MM/DD/YY): <u>4-5-16</u>   | RECEIVING BODY OF WATER: <u>Steinatchee River</u> |
| REMARKS:                     | COUNTY: <u>Dixie</u> | LOCATION: <u>Sand Hill Creek @ Hwy 358</u> | FIELD ID/NAME: <u>G1TLHR0009</u> |                                                   |

| Habitat Parameter                                                                 | Optimal                                                                                                                                                                                                                   | Suboptimal                                                                                                                                                              | Marginal                                                                                                                                          | Poor                                                                                                                               |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| Primary Habitat Components                                                        | Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]                                                                                              | Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)                                                      | Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed                                               | One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered                                 |
| Substrate Diversity <u>10</u>                                                     | 20 19 18 17 16                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                                                          | <u>10</u> 9 8 7 6                                                                                                                                 | 5 4 3 2 1                                                                                                                          |
| Substrate Availability <u>3</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 4 3 2 1                                                                                 |
| Water Velocity <u>15</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><u>15</u> 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>10 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>10</u><br>-----<br>Primary Score <u>38</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><u>10</u> 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 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>1</u>                                                | 20 19 18 17 16                                                                                                                                                                                                            | 15 14 13 12 11                                                                                                                                                          | 10 9 8 <u>7</u> 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.<br>10 9                                                            | Only meets 2 of the 3 requirements for optimal bank stability.<br>8 7 6                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.<br>5 4                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.<br>3 2 1               |
| Riparian Buffer Zone Width                                                        | Width of vegetation greater than 18 m<br>10 9                                                                                                                                                                             | Width of vegetation >12 to 18m<br>8 7 6                                                                                                                                 | Width of vegetation 6 to 12 m. human activities close to system<br>5 4                                                                            | Less than 6 m of buffer zone due to intensive human activities<br>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.<br>10 9 | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.<br>8 7 6 | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.<br>5 4 | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).<br>3 2 1 |
| Right Bank <u>10</u><br>Left Bank <u>10</u><br>-----<br>Secondary Score <u>66</u> |                                                                                                                                                                                                                           |                                                                                                                                                                         |                                                                                                                                                   |                                                                                                                                    |

104 **TOTAL SCORE**

|                     |                             |                               |
|---------------------|-----------------------------|-------------------------------|
| Date: <u>4-5-16</u> | Analyst: <u>Chris Green</u> | Signature: <u>[Signature]</u> |
|---------------------|-----------------------------|-------------------------------|



## DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET

|                            |              |               |                          |
|----------------------------|--------------|---------------|--------------------------|
| Waterbody: Sand Hill Creek | Date: 4/5/16 | County: Dixie | Storet Number: G17LHR000 |
|----------------------------|--------------|---------------|--------------------------|

|                         |                        |
|-------------------------|------------------------|
| Analyst: Green, Maxwell | Signature: [Signature] |
|-------------------------|------------------------|

Comments:  $\angle C m C$

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]