



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

June 2016

PAGE 1 OF 6

Data Qualified?

Yes / No

STORET Station Name: Sand Hill Creek @ Hwy 358 Date: 10/20/2016

(mm/dd/yyyy)

STORET Station ID: G1TLHR0009 WBID: 3674 Latitude: \_\_\_\_\_

(Decimal Degrees)

County: Dixie RQ - 2016-10-17-70 ORG ID: 21F1TLHR Longitude: \_\_\_\_\_

(Decimal Degrees)

Receiving Body of Water: St. John's River Field ID: G1TLHR0009

| Sampling Team Members |  | WQ Measurements                     | Sample Collection                   | Documentation                       | Preservation                        | Preservation Check                  |
|-----------------------|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Chris Green           |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Colby Marshall        |  | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

| 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 / Normal / High / Flooded Matrix: Fresh / Marine / DI

Meter ID# 12YSE600XLM Photos: Yes / No Tide Falling: Yes / No / NA

| 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       | 12:40 | 0.3              | 0.6             | 4.9       | 56        | 7.2 | 0.24           | 0.4             | 501                | 21.6       |
| CEN       | 12:45 |                  |                 |           |           |     |                |                 |                    |            |

Biological Samples Collected: None HA SCI LVS RPS 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 |           |            | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP                                                                                                                                                        | <input type="checkbox"/> Ice <input type="checkbox"/> HNO2                        |           |            | <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                                           |           |            |                                        |
| Physical/Aggregate (Fresh)  | <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                                           |           |            |                                        |
| Physical/Aggregate (Marine) | <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"/> Entero <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                       |           |            |                                        |

Contains  
1:1  
Sulfuric Acid  
SA-6209120  
EXP: 07/27/17  
Warning!  
See SDS

Preservative Sticker(s) Here  
(If Available)

|        |                                    |
|--------|------------------------------------|
| Notes: | Place Label Here<br>(If Available) |
|--------|------------------------------------|

Signature: Chris Green Date: 10-20-2016

Field Parameters Entered into LIMS: cm 10/10/16 Field Parameters QC in LIMS: 2w 11/10/16

Date Migrated to STORET: 3/27/17 Field Sheets Scanned/Saved: \_\_\_\_\_



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

|                                       |                         |                                               |                                     |                                                       |
|---------------------------------------|-------------------------|-----------------------------------------------|-------------------------------------|-------------------------------------------------------|
| SAMPLING AGENCY:<br><u>FDPEP 8034</u> |                         | STORET STATION NUMBER:<br><u>612LHR0009</u>   | DATE (MM/DD/YY):<br><u>10/31/16</u> | RECEIVING BODY OF WATER:<br><u>Steinhatchee River</u> |
| REMARKS:                              | COUNTY:<br><u>Dixie</u> | LOCATION:<br><u>Sand Hill Creek @ Hwy 358</u> | FIELD ID/NAME:<br><u>612LHR0009</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>8</u>                                                      | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 <u>8</u> 7 6                                                                                                                          | 5 4 3 2 1                                                                                                                     |
| Substrate Availability <u>8</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 <u>8</u> 7 6                                                                                    | Less than 5% major productive habitat<br>5 4 3 2 1                                                                            |
| Water Velocity <u>7</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>10 9 8 <u>7</u> 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>33</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>7</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.                                                            | Only meets 2 of the 3 requirements for optimal bank stability.                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.                   |
| Right Bank <u>10</u><br>Left Bank <u>9</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>                                       | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |
| Riparian Zone Vegetation Quality                                                  | Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).     |
| Right Bank <u>10</u><br>Left Bank <u>10</u><br>.....<br>Secondary Score <u>66</u> | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |

99

**TOTAL SCORE**

|                            |                                |                                  |
|----------------------------|--------------------------------|----------------------------------|
| Date:<br><u>10-20-2016</u> | Analyst:<br><u>Chris Green</u> | Signature:<br><u>Chris Green</u> |
|----------------------------|--------------------------------|----------------------------------|



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

| Site: <u>Sand Hill Creek @ Hwy 358</u> |                            |                                  |           |              | County: <u>Dixie</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            | Date: <u>10-20-2016</u>          |           | Investigators: <u>Chris Green</u> |                                                                                                                                                                                 |
|----------------------------------------|----------------------------|----------------------------------|-----------|--------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|----------------------------------|-----------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                      | STORET Station Number:<br><u>61TLHR0009</u>                                                                                                                                     |
| 0                                      | 1                          | ~                                |           |              | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          | ~                                |           |                                   | Secchi depth <u>0.4</u><br>Estimated? <u>N</u>                                                                                                                                  |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 96                                |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                   |                                                                                                                                                                                 |
| 10                                     | 1                          |                                  |           |              | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                   | # points ranked 4-6 <u>NA</u><br>total points assessed<br>% points ranked 4-6                                                                                                   |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 96                                |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                   |                                                                                                                                                                                 |
| 20                                     | 1                          |                                  |           |              | 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                   | Check accompanying data collected at same site/date.<br>Algal mat sample<br>Linear Veg Survey<br>Habitat Assessment<br>SCI/Biorecon<br>Water sample<br>RQ- <u>2016-10-17-70</u> |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 96                                |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                   |                                                                                                                                                                                 |
| 30                                     | 1                          |                                  |           |              | 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 1                          |                                  |           |                                   | Algal Thickness Rank                                                                                                                                                            |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 96                                |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                   |                                                                                                                                                                                 |
| 40                                     | 1                          |                                  |           |              | 100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1                          |                                  |           |                                   | N   rough, no algae,<br>slimy, algae up to 1mm<br>3   >1mm - 6mm<br>4   >6mm - 20mm<br>5   >20mm - 10 cm<br>6   >10 cm                                                          |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 4                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5                          |                                  |           | 96                                |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 6                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8                          |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9                          |                                  |           |                                   |                                                                                                                                                                                 |
| 50                                     | 1                          |                                  |           |              | 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.<br>Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.<br>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.<br>Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%. |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 2                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 3                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 4                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 5                          |                                  |           | 96           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 6                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 7                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 8                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |
|                                        | 9                          |                                  |           |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |                                  |           |                                   |                                                                                                                                                                                 |



G1TLHR0009

Location: Sand Hill Creek  
Date: 10/20/2016  
Sampler: Chris Green

| Substrates: | Code key,     | draw    | %          |
|-------------|---------------|---------|------------|
|             | proportionate | habitat | abundance. |

Average width 4 m  
Average depth 0.6 m

WQ & chemistry taken at 100 meter mark.

Habitat Smothering: *slight*  
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: 218m  
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

S - 9  
U - 1,25  
L - 21

4m



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

SAMPLE ID G1TLHR0009 ORG ID 21FLTLHR LATITUDE 29.69886  
COUNTY Pike STORET # G1TLHR0009 LONGITUDE -83.23288  
DATE 10-20-2016 TIME 13:00 SAMPLING AGENCY FDEP 8034  
SITE NAME Sand Hill Creek @ Hwy 358  
FIELD ID/NAME G1TLHR0009 RECEIVING BODY OF WATER Steinhatchee River

## RIPARIAN ZONE / STREAM FEATURES

|                                                                                                                                                                                 |              |               |              |                                                                                                      |            |          |                 |                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|---------------|--------------|------------------------------------------------------------------------------------------------------|------------|----------|-----------------|-------------------------------------------------------|
| PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):                                                                                                  |              |               |              |                                                                                                      |            |          |                 | Landscape Development Intensity Index (LDI)           |
| Forest/Natural                                                                                                                                                                  | Silviculture | Field/Pasture | Agricultural | Residential                                                                                          | Commercial | Industry | Other (Specify) |                                                       |
| <u>90</u>                                                                                                                                                                       | <u>10</u>    |               |              |                                                                                                      |            |          |                 |                                                       |
| Local Watershed Erosion (select one): <input checked="" type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |              |               |              |                                                                                                      |            |          |                 | Typical Width (m) Depth (m)/Velocity (m/sec) Transect |
| Local Watershed NPS Pollution: <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy |              |               |              |                                                                                                      |            |          |                 |                                                       |
| Width of Riparian Vegetation (m) on Each Buffer Side                                                                                                                            |              |               |              | Hydrologic Modification Score (per FT 3101)                                                          |            |          |                 |                                                       |
| Left Bank: <u>718</u> Right Bank: <u>718</u>                                                                                                                                    |              |               |              |                                                                                                      |            |          |                 |                                                       |
| High Water Mark: <u>0.6</u> + <u>0.5</u> = <u>1.1</u><br>(m) (above present water level) (present depth) (above bed)                                                            |              |               |              | Artificially Impounded<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No        |            |          |                 |                                                       |
| Artificially <input type="checkbox"/> No <input checked="" type="checkbox"/> Mostly recovered, more sinuous                                                                     |              |               |              | Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)        |            |          |                 |                                                       |
| Channelized: <input checked="" type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                          |              |               |              | <input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%) |            |          |                 |                                                       |

## SEDIMENT / SUBSTRATE

|                                                                                                                                                                          |                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Sediment Oils</b><br><input checked="" type="checkbox"/> Absent <input 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 checked="" type="checkbox"/> Slight <input 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 checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## SUBSTRATE TYPE

|                                                                                                                               |                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Assessment Tool: <input checked="" type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input type="checkbox"/> LVS | <b>WATER QUALITY</b>                                                                                                                                                                                                               |
| <input type="checkbox"/> LCI <input type="checkbox"/> BioRecon                                                                | Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)                                                                                                                                    |
| Woody Debris (Snags) <u>2.25</u> <u>70</u>                                                                                    | Top: <u>0.3</u> <u>21.6</u> <u>7.2</u> <u>4.9</u> <u>56</u> <u>501</u> <u>0.24</u> <u>0.4</u>                                                                                                                                      |
| Undercut Banks / Roots <u>0.3</u> <u>2</u>                                                                                    | Mid: <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>                                                                                                                                                               |
| Leaf Packs or Mat <u>5.3</u> <u>7</u>                                                                                         | Bottom: <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u> <u></u>                                                                                                                                                            |
| Aquatic Vegetation <u>0</u>                                                                                                   | Meter ID: <u>YSI 600XL</u>                                                                                                                                                                                                         |
| Rock or Shell Rubble <u>0</u>                                                                                                 | <b>Water Odors</b> Normal <input checked="" type="checkbox"/> Petroleum <input type="checkbox"/><br>Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/>                               |
| Sand <u></u>                                                                                                                  | <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"/>                                |
| Mud / Muck / Silt <u>92.15</u> <u>84</u>                                                                                      | 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: <u>6209120</u> Exp: <u>7/27/17</u> |
| Other <u></u>                                                                                                                 | Algae Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Lot Number: <u></u> Exp: <u></u>               |
| Other <u></u>                                                                                                                 | Color Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) <input type="checkbox"/>                                                                 |
|                                                                                                                               | Clarity Clear <input type="checkbox"/> Slightly Turbid <input checked="" type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>                                                                      |

## ABUNDANCE

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

SIGNATURE:

DATE:

Chris Green / Colby MarshallChS10/31/2016



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

|                                      |                      |               |                           |
|--------------------------------------|----------------------|---------------|---------------------------|
| Waterbody: Sand Hill Creek @ Hwy 358 | Date: 10-20-16       | County: Dixie | Storet Number: 61TLHR0009 |
| Analyst: Chris Green                 | Signature: <i>CK</i> |               |                           |
| Comments: 62m <sup>2</sup>           |                      |               |                           |

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]