



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?  
Yes / No

WIN Station Name: Swift Creek @ US #41 Date: 2/16/2018  
(mm/dd/yyyy)  
WIN/ Field ID: 21020039 WBID: 3375 Latitude: 30.37143  
(Decimal Degrees)  
County: Hamilton ORG ID: 21FLA Longitude: 82.8000  
(Decimal Degrees)  
Receiving Body of Water: Swansee River RQ-2018- 02-05-87

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Sampling Equipment                         |                                         |                          |
|-----------------------|-----------------|-------------------|---------------|--------------|--------------------------------------------|-----------------------------------------|--------------------------|
|                       |                 |                   |               |              | Sample Container                           | Van Dorn                                | Pole                     |
| J Parnish             | X               | X                 | X             | X            | <input checked="" type="checkbox"/> Carboy | <input type="checkbox"/> Syringe        | <input type="checkbox"/> |
| P Oconnor             |                 | X                 |               |              | <input type="checkbox"/> Dipper            | <input type="checkbox"/> Other          |                          |
|                       |                 |                   |               |              | Depth Measured with <u>Secchi disk</u>     |                                         |                          |
|                       |                 |                   |               |              | Equipment ID <u>0-160 #7</u>               |                                         |                          |
|                       |                 |                   |               |              | Collection Method                          |                                         |                          |
|                       |                 |                   |               |              | <input checked="" type="checkbox"/> Wading | <input type="checkbox"/> Canoe/Kayak    |                          |
|                       |                 |                   |               |              | <input type="checkbox"/> From Shore        | <input type="checkbox"/> Electric Motor |                          |
|                       |                 |                   |               |              | <input type="checkbox"/> Other             | <input type="checkbox"/> Gasoline Motor |                          |

Water Level: Dry/ Pooled/ Low / Normal / High / Flooded Meter ID# Hydrolg 5 Quail Matrix: Fresh Marine/ DI  
Photos: Yes/ No Flow: No Flow / Intestinal / Flowing / NA Tide: Rising/ Falling/ Slack/ NA Tide Times: High Low

| Time Zone | Time | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH   | Salinity (PPT) | Sp COND (umhos/cm) | Temp. (C°) |
|-----------|------|-----------------|------------------|-----------------|-----------|-----------|------|----------------|--------------------|------------|
| EST       | 1140 | 0.9             | 0.3              | 0.95            | 7.81      | 78.0      | 7.28 | 0.25           | 515                | 15.15      |
| CEN       |      |                 |                  |                 |           |           |      |                |                    |            |

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: HA-ID: RPS-ID: Macrophyte-ID: LIMS#:

| Parameter Suite             | Parameter Methods                                                                                                                                                            | Preservation                                                                      | Lot#       | Expiration | pH Check                               |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------|------------|----------------------------------------|
| Preserved Nutrients         | <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 | SA7341020  | 12-07-18   | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input type="checkbox"/> W-CPMS <input type="checkbox"/> W-ICP                                                                                                               | <input type="checkbox"/> Ice <input type="checkbox"/> HNO3                        |            |            | <input type="checkbox"/> <2            |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input type="checkbox"/> Field Filtered 0.45 um Filter                                                                           | <input checked="" type="checkbox"/> Ice                                           | R7EA152511 |            |                                        |
| 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-CI-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 type="checkbox"/> MI-FW-QLDC                                                                                                                                          | <input type="checkbox"/> Formalin                                                 |            |            |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                            | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Microbiology                | <input checked="" type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci                                                              | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Molecular                   | <input type="checkbox"/> PCR-FILTER <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Tracers                     | <input type="checkbox"/> W-SUC-AA-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA                                                                  | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Pesticides                  | <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-AHERB-AA <input type="checkbox"/> W-CARB-AA                                | <input type="checkbox"/> Ice                                                      |            |            |                                        |
|                             | <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R                                 | <input type="checkbox"/> Other                                                    |            |            |                                        |

Notes:

Field ID/WIN ID 21020039

Swift Creek at US #41

Signature: [Signature] Date: 2/7/18

Enter Field Parameters, Verify Station ID in LIMS DMT: BP 2/9/18 QC Station ID, Field Parameters in LIMS DMT: BP 2/9/18  
(Initials/Date) (Initials/Date)

Scan/Save Field Sheets BP 2/9/18 Migrate Data to WIN: [Signature] Verify Data in WIN: [Signature]  
(Initials/Date) (Initials/Date)

sbid # 78205

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

|                            |                     |                                    |                              |                                        |
|----------------------------|---------------------|------------------------------------|------------------------------|----------------------------------------|
| SAMPLING AGENCY:<br>NE ROC |                     | STORET STATION NUMBER:<br>21020039 | DATE (MM/DD/YY):<br>02-07-18 | RECEIVING BODY OF WATER:<br>Suwannee R |
| REMARKS:                   | COUNTY:<br>Hamilton | LOCATION:<br>Swift Creek US 41     | FIELD ID/NAME:               |                                        |

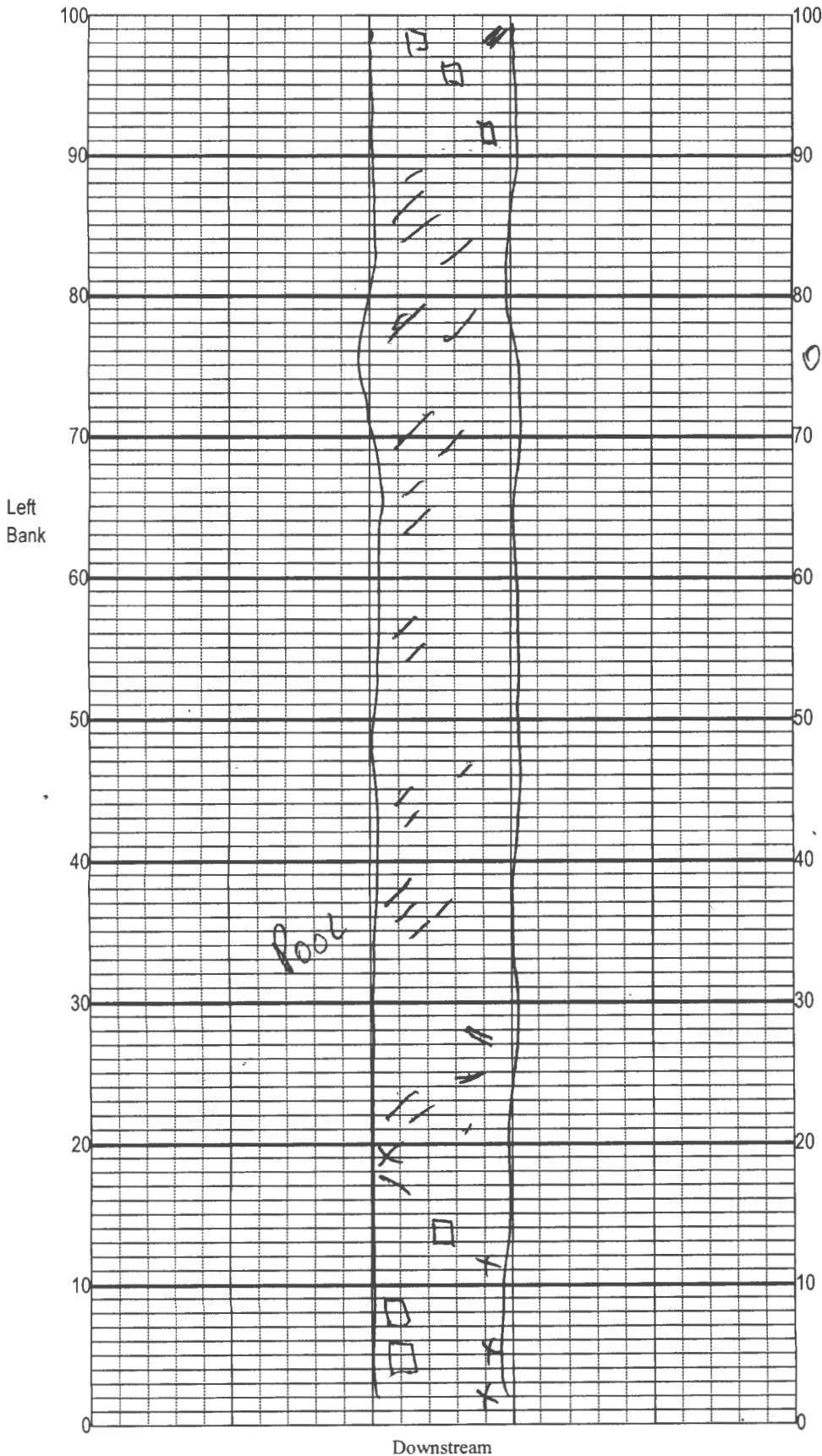
| Habitat Parameter                                                                 | Optimal                                                                                                                                                                                                           | Suboptimal                                                                                                                                                     | Marginal                                                                                                                                   | Poor                                                                                                                          |
|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Primary Habitat Components                                                        | Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)                                                                                      | Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)                                             | Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed                                        | One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered                            |
| Substrate Diversity <u>13</u>                                                     | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 8 7 6                                                                                                                                 | 5 4 3 2 1                                                                                                                     |
| Substrate Availability <u>5</u>                                                   | Greater than 30% major productive habitat present at site<br>20 19 18 17 16                                                                                                                                       | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11                                                                                        | 6% to 15% major productive habitat<br>10 9 8 7 6                                                                                           | Less than 5% major productive habitat<br><u>5</u> 4 3 2 1                                                                     |
| Water Velocity <u>20</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 7 6                                              | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1      |
| Habitat Smothering <u>18</u><br>.....<br>Primary Score <u>56</u>                  | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>20 19 18 17 16                                                                                 | Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae.<br>15 14 13 12 11                              | Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth).<br>10 9 8 7 6         | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>5 4 3 2 1                            |
| Secondary Habitat Components                                                      | Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.                                                                                                   | Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.                                                   | Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.                        | Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. |
| Artificial Channelization <u>20</u>                                               | 20 19 18 17 16                                                                                                                                                                                                    | 15 14 13 12 11                                                                                                                                                 | 10 9 8 7 6                                                                                                                                 | 5 4 3 2 1                                                                                                                     |
| Bank Stability                                                                    | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.                                                            | Only meets 2 of the 3 requirements for optimal bank stability.                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.                   |
| Right Bank <u>4</u><br>Left Bank <u>4</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>68</u> | 10 9                                                                                                                                                                                                              | 8 7 6                                                                                                                                                          | 5 4                                                                                                                                        | 3 2 1                                                                                                                         |

TOTAL SCORE

124

|                       |                         |                             |
|-----------------------|-------------------------|-----------------------------|
| Date: <u>02-07-18</u> | Analyst: <u>PO Corn</u> | Signature: <u>Parkinson</u> |
|-----------------------|-------------------------|-----------------------------|

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



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

Location: Swift Creek  
US 41  
Date: 02-07-18  
Sampler: P O'Bannon

|                                                                                                                |                                                      |
|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| 100 m: Latitude _____                                                                                          | Longitude _____                                      |
| 0 m: Latitude _____                                                                                            | Longitude _____                                      |
| Substrates: Code key, draw proportionate habitat abundance. %                                                  |                                                      |
| <input checked="" type="checkbox"/> Snags                                                                      | 3                                                    |
| <input checked="" type="checkbox"/> Roots/undercut banks                                                       | <1                                                   |
| <input type="checkbox"/> Leaf Packs (or mats)                                                                  | _____                                                |
| <input checked="" type="checkbox"/> Aquatic Macrophytes                                                        | _____                                                |
| <input checked="" type="checkbox"/> Rock                                                                       | <1                                                   |
| <input type="checkbox"/> Pools                                                                                 | total # observed = _____<br># range expected = _____ |
| Average width <u>8-10</u> m                                                                                    |                                                      |
| Average depth _____ m                                                                                          |                                                      |
| Velocity measured at _____ meter mark.                                                                         |                                                      |
| WQ & chemistry taken at _____ meter mark.                                                                      |                                                      |
| Habitat Smothering:<br>Note areas (on map) where sand or silt is smothering substrates, limiting habitability. |                                                      |
| Bank Stability:<br>Note areas (on map) with unstable, eroding banks.                                           |                                                      |
| Riparian Buffer Width:<br>Note areas (on map) where natural vegetation is altered or eliminated.               |                                                      |

Plants observed / other notes:

<2 M of Macrophytes was observed while doing the LVS? YES or NO  
32m² snag  
Roots 3 ~3% snag  
Shell 3 <1% Roots  
SAND- <1% Rock  
SNAG 2

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

SAMPLE ID 79205 ORG ID 21FLA LATITUDE 30.37143  
 COUNTY Hamilton STORET # 21020039 LONGITUDE 82.8000  
 DATE 2/7/18 TIME 1140 SAMPLING AGENCY DEP NE  
 SITE NAME Swift Creek US #4  
 FIELD ID/NAME \_\_\_\_\_ RECEIVING BODY OF WATER Savannah River

RIPARIAN ZONE / STREAM FEATURES

Meter ID: \_\_\_\_\_

|                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |                                                                                                                                                                                                                          |  |                                                                                                                        |  |                                                                                                                                                                                                              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <u>20</u> Silviculture <u>0</u> Field/Pasture <u>50</u> Agricultural <u>0</u> Residential <u>0</u> Commercial <u>0</u> Industry <u>30</u> Other (Specify) <u>0</u>                                                                                                    |  |  |  |                                                                                                                                                                                                                          |  |                                                                                                                        |  | <b>Landscape Development Intensity Index (LDI)</b><br><u>0</u>                                                                                                                                               |  |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input checked="" type="checkbox"/> No evidence <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy |  |  |  |                                                                                                                                                                                                                          |  | <b>Typical Width (m) Depth (m)/Velocity (m/sec) Transect</b><br><u>9</u> m wide<br><u>0.5</u> m/s<br><u>0.9</u> m deep |  |                                                                                                                                                                                                              |  |
| <b>Width of Riparian Vegetation (m) on Each Buffer Side</b><br>Left Bank: <u>&gt;18m</u> Right Bank: <u>&gt;18m</u>                                                                                                                                                                                                                                                           |  |  |  | <b>Hydrologic Modification Score</b> (per FT 3101) <u>0</u>                                                                                                                                                              |  |                                                                                                                        |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  |
| <b>High Water Mark:</b> <u>1.7</u> + <u>0.9</u> = <u>2.6</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                   |  |  |  | <b>Artificially</b> <input checked="" type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous<br><b>Channelized:</b> <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe |  |                                                                                                                        |  | <b>Canopy Cover %</b> <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input checked="" type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%) |  |

SEDIMENT / SUBSTRATE

|                                                                                                                                                                                                                                                                                                                          |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| <b>Sediment Oils</b><br><input checked="" type="checkbox"/> Absent <input type="checkbox"/> Slight<br><input type="checkbox"/> Moderate <input type="checkbox"/> Profuse                                                                                                                                                 |  |  | <b>Sediment Odors</b><br><input checked="" type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum<br><input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic<br><input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                      |  |  | <b>Smothering of Substrates</b><br>Sand Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" 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"/>                                                                |  |  |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| <b>SUBSTRATE TYPE</b><br>Assessment Tool: <input checked="" type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon                                                                                                            |  |  | <b>WATER QUALITY</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)<br>Top: <u>0.3</u> <u>15.15</u> <u>7.28</u> <u>7.81</u> <u>78.0</u> <u>515</u> <u>0.25</u> <u>0.95</u><br>Mid: _____<br>Bottom: <u>0.9</u> _____<br><b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) _____                                                                        |  |  | <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"/><br>Water Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot Number: _____ Exp: _____                                                                                                                                                                     |  |  |                                                                                                                                                                                                                                                                                                                                                                               |  |  |
| Woody Debris (Snags) <u>3</u> <u>5</u><br>Undercut Banks / Roots <u>4</u> <u>5</u><br>Leaf Packs or Mat _____<br>Aquatic Vegetation _____<br>Rock or Shell Rubble <u>140</u> <u>5</u><br>Sand <u>95</u> <u>5</u><br>Mud / Muck / Silt _____<br>Other <u>5.6m High</u> <u>20</u> <u>3</u><br>Other <u>Shell</u> <u>20</u> |  |  | <b>Water Surface Oils</b> Normal <input checked="" type="checkbox"/> Sheen <input type="checkbox"/><br>Globbs <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/><br><b>Color</b> Tannic <input checked="" type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input type="checkbox"/> Other (Specify) _____<br><b>Clarity</b> Clear <input checked="" type="checkbox"/> Slightly Turbid <input type="checkbox"/><br>Turbid <input type="checkbox"/> Opaque <input type="checkbox"/> |  |  | <b>ABUNDANCE</b><br>Not Obs. Rare Common Abundant<br>Periphyton: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Fish: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Aquatic Plants: <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  | <b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><u>PCS discharge upstream</u><br>Hydrologic Disturbance Scoring <input type="checkbox"/> 1-2 <input type="checkbox"/> 3-4 <input type="checkbox"/> 5-6 <input type="checkbox"/> 7-8 <input type="checkbox"/> 9-10<br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge. |  |  |
| <b>SAMPLING TEAM</b><br><u>Jerry Lamm / Pat O'Connor</u>                                                                                                                                                                                                                                                                 |  |  | <b>SIGNATURE:</b><br><u>Jerry Lamm</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  | <u>2/7/18</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |                                                                                                                                                                                                                                                                                                                                                                               |  |  |

5b10 # 78205

RPs # 8903

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

 Site: Switzer @ JS41 County: HAMILTON Date: 02-07-18 Investigators: J Parrish, P O'Connor

| Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover | Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover |
|--------------|----------------------------|----------------------------------|-----------|--------------|--------------|----------------------------|----------------------------------|-----------|--------------|
| 0            | 1                          | N                                | N         | 94           | 60           | 1                          | N                                | N         | 65           |
|              | 2                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |
| 10           | 1                          | N                                | N         | 90           | 70           | 1                          | N                                | N         | 60           |
|              | 2                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |
| 20           | 1                          | N                                | N         | 94           | 80           | 1                          | N                                | N         | 75           |
|              | 2                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |
| 30           | 1                          | N                                | N         | 94           | 90           | 1                          | N                                | N         | 74           |
|              | 2                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | N                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |
| 40           | 1                          | N                                | N         | 88           | 100          | 1                          | N                                | N         | 92           |
|              | 2                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |
| 50           | 1                          | N                                | N         | 90           |              | 1                          | N                                | N         |              |
|              | 2                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 3                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 4                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 5                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 6                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 7                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 8                          | X                                | X         |              |              |                            |                                  |           |              |
|              | 9                          | N                                | X         |              |              |                            |                                  |           |              |

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.  
 Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.  
 Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.  
 Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

STORET Station Number:

 Secchi depth 0.95  
 Estimated?

 # points ranked 4-6 0  
 total points assessed 90  
 % points ranked 4-6 0

Check accompanying data collected at same site/date.

 Algal mat sample N  
 Linear Veg Survey X  
 Habitat Assessment X  
 SCI/Biorecon X  
 Water sample X
RQ: 02-05-87

## Algal Thickness Rank

|   |                                         |
|---|-----------------------------------------|
| N | rough, no algae, slimy, algae up to 1mm |
| 3 | >1mm - 6mm                              |
| 4 | >6mm - 20mm                             |
| 5 | >20mm - 10 cm                           |
| 6 | >10 cm                                  |

21020039  
toret Number:

|                     |                              |
|---------------------|------------------------------|
| Analyst: <u>Man</u> | Signature: <u>Jerry Carr</u> |
|---------------------|------------------------------|

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m<sup>2</sup> of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names.

62-160,800, F.A.C. page 1 of 2 Revision Date: March 1, 2014

[illegible]

## Central Laboratory Submittal Form

Customer: NE-DIST

Project ID: SMP

Requester: Jeremy M. Parrish

Collected By:

Field Report Prepared By:

Sampling Agency:

|          |                                                             |           |                                                             |                                                                           |              |                                                                            |                                                                      |                            |          |
|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|---------------------------------------------------------------------------|--------------|----------------------------------------------------------------------------|----------------------------------------------------------------------|----------------------------|----------|
| Location | Field ID:WIN ID                                             | 21020039  |                                                             | <input type="checkbox"/> Comp<br><input checked="" type="checkbox"/> Grab |              | Collection (comp begin or grab)                                            | Eastern                                                              | Composite end              | Bottle   |
| Field ID |                                                             |           |                                                             | Date                                                                      | Time         | Central                                                                    | Date                                                                 | Time                       | Group(s) |
| WIN/STOR | Swift Creek at US #41                                       |           |                                                             | Matrix (type, e.g., Salt, Fresh, etc)                                     | Diss. Oxygen | <input checked="" type="checkbox"/> mg/L<br><input type="checkbox"/> % sat |                                                                      | Total Res. Chlorine (mg/L) | A, B     |
| Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Temp (C)                                                                  | pH           | Sample Depth                                                               | <input type="checkbox"/> ft<br><input checked="" type="checkbox"/> m | Sp. Conductance (umho/cm)  |          |
|          |                                                             |           |                                                             | Salinity (ppt)                                                            | Comments     |                                                                            |                                                                      |                            |          |
|          |                                                             |           |                                                             |                                                                           |              |                                                                            |                                                                      |                            |          |

|          |          |              |          |                                                             |           |                                                             |                |          |
|----------|----------|--------------|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|----------------|----------|
| Location | Field ID | WIN/STORET # | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | Comments |
|          |          |              |          |                                                             |           |                                                             |                |          |

|          |          |              |          |                                                             |           |                                                             |                |          |
|----------|----------|--------------|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|----------------|----------|
| Location | Field ID | WIN/STORET # | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | Comments |
|          |          |              |          |                                                             |           |                                                             |                |          |

|          |          |              |          |                                                             |           |                                                             |                |          |
|----------|----------|--------------|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|----------------|----------|
| Location | Field ID | WIN/STORET # | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | Comments |
|          |          |              |          |                                                             |           |                                                             |                |          |

|          |          |              |          |                                                             |           |                                                             |                |          |
|----------|----------|--------------|----------|-------------------------------------------------------------|-----------|-------------------------------------------------------------|----------------|----------|
| Location | Field ID | WIN/STORET # | Latitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Longitude | <input type="checkbox"/> dd<br><input type="checkbox"/> dms | Salinity (ppt) | Comments |
|          |          |              |          |                                                             |           |                                                             |                |          |

|                  |           |                 |                            |              |           |
|------------------|-----------|-----------------|----------------------------|--------------|-----------|
| Relinquished By: | Date/Time | Shipping Method | Number of Coolers Shipped: | Received By: | Date/Time |
| Jeremy Parrish   | 2/7/18    | Fedex           | 1                          |              |           |

|          |              |                |                 |               |               |                                     |          |
|----------|--------------|----------------|-----------------|---------------|---------------|-------------------------------------|----------|
| Group: A | Bottle Type: | P-1L           | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1        |
|          | ALKALINITY   |                |                 |               |               |                                     |          |
|          | TURBIDITY    |                |                 |               |               |                                     |          |
|          | W-CL-IC      |                |                 |               |               |                                     |          |
|          | W-COLOR      |                |                 |               |               |                                     |          |
|          | W-F          |                |                 |               |               |                                     |          |
|          | W-SO4-IC     |                |                 |               |               |                                     |          |
|          | W-TDS        |                |                 |               |               |                                     |          |
|          | W-TSS        |                |                 |               |               |                                     |          |
| Group: A | Bottle Type: | BP-1L          | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1        |
|          | CHLSUITE-W   |                |                 |               |               |                                     |          |
| Group: A | Bottle Type: | P-250ML-WI-THI | # of Bottles: 1 | Preservative: | ICE           | Enter Number of Bottles Sent to Lab | 1 to ALS |
|          | NE-ALS-ECQ   |                |                 |               |               |                                     |          |
| Group: A | Bottle Type: | P-500ML        | # of Bottles: 1 | Preservative: | ICE And H2SO4 | Enter Number of Bottles Sent to Lab | 1        |
|          | W-NH3        |                |                 |               |               |                                     |          |
|          | W-NO2NO3     |                |                 |               |               |                                     |          |
|          | W-S-A-TP     |                |                 |               |               |                                     |          |
|          | W-TKN        |                |                 |               |               |                                     |          |
|          | W-TOC        |                |                 |               |               |                                     |          |
| Group: A | Bottle Type: | P-125ML        | # of Bottles: 1 | Preservative: | FILTER-ICE    | Enter Number of Bottles Sent to Lab | 1        |
|          | W-PO4-F      |                |                 |               |               |                                     |          |
| Group: B | Bottle Type: | PJ-2L          | # of Bottles: 2 | Preservative: | Formalin      | Enter Number of Bottles Sent to Lab | 2        |
|          | MI-FW-QLDC   |                |                 |               |               |                                     |          |