

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)  
**PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET**

SAM Location: Gum Creek  
 COU abv Bartlett rd  
 DATE RQ-2016-02-01-57(WBID 11A)  
 SITE Date: 3/15/16  
 FIEL Time: 1130 CST

**G4NW0323**  
 Field ID ↑  
 STORET ↓  
 33040082

LATITUDE 30.84393  
 LONGITUDE -86.11321  
 SAMPLING AGENCY FL DEP NWROC  
 RECEIVING BODY OF WATER Shoal River

**RIPARIAN ZONE / STREAM FEATURES**

|                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                                                                                                                                                                                       |  |  |  |                                                                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|----------------------------------------------------------------------------|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                       |  |  |  | <b>Landscape Development Intensity Index (LDI)</b><br><input type="text"/> |
| 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 type="checkbox"/> No evidence <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                      |  |  |  | Typical Width (m) Depth (m)/Velocity (m/sec) Transect<br><div style="text-align: right;">4.5 m wide</div>                                                                                             |  |  |  |                                                                            |
| Width of Riparian Vegetation (m) on Each Buffer Side<br>Left Bank: <input type="text"/> Right Bank: <input type="text"/>                                                                                                                                                                                                                                                                                |  |  |  | Hydrologic Modification Score (per FT 3101) <input type="text"/>                                                                                                                                      |  |  |  |                                                                            |
| High Water Mark: 0.8 + 1.1 = 1.9<br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                                         |  |  |  | Artificially Impounded<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  |  |  |                                                                            |
| Artificially <input checked="" type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous<br>Channelized: <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe                                                                                                                                                                                              |  |  |  | Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%)<br><input type="checkbox"/> Heavily Shaded <input checked="" 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 checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/><br>Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input checked="" type="checkbox"/><br>Algae Smothering: None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**SUBSTRATE TYPE**

Assessment Tool: ☐ SCI ☒ RPS ☐ LVS ☒ NA

☐ LCI ☐ BioRecon

|                       | % Coverage | # Times Sampled | PERI # Times Sampled |
|-----------------------|------------|-----------------|----------------------|
| Woody Debris (Snags)  | 5          |                 |                      |
| Undercut Banks /Roots | 1          |                 |                      |
| Leaf Packs or Mat     | <1         |                 |                      |
| Aquatic Vegetation    |            |                 |                      |
| Rock or Shell Rubble  |            |                 |                      |
| Sand/Silt             | 92         |                 |                      |
| Sand/Gravel           | 1          |                 |                      |
| Mud/Muck/Silt         |            |                 |                      |
| Other                 |            |                 |                      |

**WATER QUALITY**

|        | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M)                   |
|--------|-----------|------------|---------|-------------|----------|-----------------|----------------|------------------------------|
| Top:   | 0.3       | 21.5       | 5.0     | 6.2         | 70       | 26              | 0              | 0.4                          |
| Mid:   |           |            |         |             |          |                 |                | <input type="checkbox"/> VOB |
| Bottom | 1.0       |            |         |             |          |                 |                |                              |

Meter ID: H3113237 Meter Verify: Y ☒ N ☐ SITE DEPTH 1.1

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

Water Sample Taken? ☒ Yes ☐ No  
 Sample Preserved? ☒ Yes ☐ No  
 Lot Number: 515259020 Exp: 7/16/16

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

Water Surface Oils: Normal ☒ Sheen ☐  
 Globs ☐ Slick ☐ Other ☐

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

Clarity Clear ☐ Slightly Turbid ☐  
 Turbid ☒ Opaque ☐

**ABUNDANCE**

|                       | Absent                   | Rare                                | Common                              | Abundant                 |
|-----------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|
| Periphyton:           | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Fish:                 | <input type="checkbox"/> | <input type="checkbox"/>            | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Aquatic Plants:       | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |
| Iron/Sulfur Bacteria: | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/>            | <input type="checkbox"/> |

System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐

**WEATHER CONDITIONS / NOTES:**

Insufficient obs. NO LWS.  
 BRADEN @ Black Gum Wetland. RPS ID 7787  
 SBIO ID 75845. HA ID 13352 MARKED  
☒ The antecedent hydrologic conditions have been met to my best knowledge.

**SAMPLING TEAM**

F BUTERA, R. de ABAD

**SIGNATURE**

[Signature]

**DATE**

3/15/16