

Site Name Turkey Creek above Amos Cabiness Rd.

Date 08/22/2017

Field ID 33030102

Storet 33030102

Visit ID 77877

RQ: 2017-06-05-47

RPS ID 8171

VPDB ID N/A

HA ID 14747

☒ SCI

☐ RPS/LVS Only

☒ Sample Site Created in SBIO

☒ Phys/chem entered in SBIO

☒ HA entered in SBIO Initial FB

☐ Date and Initial QA: \_\_\_\_\_

☒ RPS entered in SBIO Initial FB

☐ Date and Initial QA: \_\_\_\_\_

☐ LVS entered in SBIO Initial \_\_\_\_\_

☐ Date and Initial QA: \_\_\_\_\_

☒ < 2 m<sup>2</sup> vegetation

☐ Plants getting verified

Date submitted: \_\_\_\_\_

☐ Plants verified

Date returned: \_\_\_\_\_



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION  
STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF 1

Data Qualified?  
Yes / No

Location/STORET Station Name: Turkey Ck above Amos Cabiness Rd. Ref

Date: 8/24/2017

STORET # 33030102

WBID: 104

Latitude: 30.876056

County: Santa Rosa

RQ - 2017-06-05-47

ORG ID: 21FLPNS

Longitude: -86.9057

Receiving Body of Water: Blackwater R.

Field ID: 33030102

Sampling Team Members

Frank Butera  
Snapper Road

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole  
☐ Carboy ☒ Syringe  
☐ Dipper ☐ Other

Equipment ID

Collection Method

☒ Wading ☐ From Shore ☐ Other (note below)  
☐ Via Boat ☐ Canoe/Kayak ☐ Electric Motor ☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Meter ID# 132237

Photos: Yes / No

Matrix: Fresh / Marine / DI

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 (umhos/cm) | Temp. (C°) |
|-----------|-------|------------------|-----------------|-----------|-----------|-----|----------------|-----------------|--------------------|------------|
| EST       | 13:58 | 0.3              | 0.5             | 7.3       | 87        | 4.7 | 0.4            |                 | 19                 | 24.0       |
| CEN       |       |                  |                 |           |           |     |                | VOB             |                    |            |

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

SBIO ID Numbers: SBIO-ID: 77877 RPS-ID: 8771 Macrophyte-ID: N/A LIMS#:

| 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 | SA-7093010 | 04/03/18   | <input checked="" type="checkbox"/> <2 |
| Metals                      | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP                                                                                                                                                                   | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3  | NA-6253070 | 09/09/17   | <input checked="" type="checkbox"/> <2 |
| Filtered Nutrients          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 um 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-CHC / 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"/> ML-FW-QLDC                                                                                                                                                                                                          | <input checked="" type="checkbox"/> Formalin                                      |            |            |                                        |
| Periphyton                  | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                                                                       | <input type="checkbox"/> Ice                                                      |            |            |                                        |
| Microbiology                | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci <input type="checkbox"/> qPCR                                                                                                                      | <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-AHERB-AA <input type="checkbox"/> W-PYR-AA-R <input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-UHERB-AA <input type="checkbox"/> W-GLYPH <input type="checkbox"/> W-SUC-AA-R | <input type="checkbox"/> Ice <input type="checkbox"/> Other                       |            |            |                                        |

Place Preservative Sticker(s) Here  
(If Available)

Notes: PKD-QN-BV needs Lugol's Solution perservative at Lab.  
Reference Streams.

2m Vg - no LVS

SCZ collected 8/22/2017

Signature: [Signature]

Location: Turkey Creek  
@ Hwy 2A  
RQ-2017-06-05-47 (WBID 104)  
Date:  
Time: CST

33030102  
Field ID  
STORET  
33030102

Date: 8/22/2017

Field Parameters Entered into LIMS: (Initials/Date)

Field Parameters QC in LIMS: (Initials/Date)

Date Migrated to STORET: (Initials/Date)

Field Sheets Scanned/Saved: [Signature] 8/24/2017 (Initials/Date)

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

SAMPLE ID 77877 ORG ID 21FLPNS 0 M LATITUDE 30.876056  
 COUNTY Santa Rosa STORET # 33030102 0 M LONGITUDE -86.9057  
 DATE 8/22/2017 TIME 11:30 CST SAMPLING AGENCY FL DEP - NWROC  
 SITE NAME Turkey Creek above Amos Cabiness Rd.  
 FIELD ID/NAME 33030102 RECEIVING BODY OF WATER 33030102

RIPARIAN ZONE / STREAM FEATURES

RR-2017-06-05-47

|                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |                                                                                                                                                                                                       |  |                                                                                                                                                         |  |                                                                                |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category):<br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industry <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |  |  |                                                                                                                                                                                                       |  |                                                                                                                                                         |  | <b>Landscape Development Intensity Index (LDI)</b><br><input type="checkbox"/> |  |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input 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="border: 1px solid black; padding: 2px; width: 100px; float: right;">5</div> m wide |  |                                                                                |  |
| Width of Riparian Vegetation (m) on Each Buffer Side<br>Left Bank: <u>718</u> Right Bank: <u>718</u>                                                                                                                                                                                                                                                                                                    |  |  |  | Hydrologic Modification Score (per FT 3101) <u>1-2</u>                                                                                                                                                |  | <div style="display: flex; justify-content: space-around;"> <div><u>.33</u> m/s</div> <div><u>.33</u> m/s</div> <div><u>.33</u> m/s</div> </div>        |  |                                                                                |  |
| High Water Mark: <u>25</u> + <u>1.7</u> = <u>4.2</u><br>(m) (above present water level) (present depth) (above bed)                                                                                                                                                                                                                                                                                     |  |  |  | Artificially Impounded<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                         |  | <div style="display: flex; justify-content: space-around;"> <div><u>.3</u> m deep</div> <div><u>.2</u> m deep</div> <div><u>.1</u> m deep</div> </div>  |  |                                                                                |  |
| 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 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 type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input type="checkbox"/><br>Algae Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Severe <input type="checkbox"/> |                |                                         |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|-----------|------------|---------|-------------|--------------|-----------------|----------------|------------|------|------------|-------------|------------|------------|-----------|-----------|------------|--|------|--|--|--|--|--|--|--|-----------------------------------------|---------|------------|--|--|--|--|--|--|--|
| <b>SUBSTRATE TYPE</b><br>Assessment Tool: <input checked="" type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input type="checkbox"/> LVS<br><input type="checkbox"/> LCI <input type="checkbox"/> BioRecon                                                                                                                                                                                                                                                                                                                                                          |            |             | <b>WATER QUALITY</b> <u>13:55</u><br><table border="1"> <thead> <tr> <th></th> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td><u>0.3</u></td> <td><u>24.4</u></td> <td><u>4.7</u></td> <td><u>9.3</u></td> <td><u>87</u></td> <td><u>19</u></td> <td><u>0.0</u></td> <td></td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><input checked="" type="checkbox"/> VOB</td> </tr> <tr> <td>Bottom:</td> <td><u>1.5</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                         |                                                                                                                                                                                                      |  |  |  | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) | Top: | <u>0.3</u> | <u>24.4</u> | <u>4.7</u> | <u>9.3</u> | <u>87</u> | <u>19</u> | <u>0.0</u> |  | Mid: |  |  |  |  |  |  |  | <input checked="" type="checkbox"/> VOB | Bottom: | <u>1.5</u> |  |  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Depth (M)  | Temp. (°C)  | pH (SU)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Salinity (PPT) | SECCHI (M)                              |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| Top:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <u>0.3</u> | <u>24.4</u> | <u>4.7</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | <u>9.3</u>  | <u>87</u>    | <u>19</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <u>0.0</u>     |                                         |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| Mid:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |            |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                | <input checked="" type="checkbox"/> VOB |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| Bottom:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <u>1.5</u> |             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                         |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| Woody Debris (Snags) <u>1.7</u> <u>5</u><br>Undercut Banks / Roots <u>1.6</u> <u>5</u><br>Leaf Packs or Mat <u>0.3</u> <u>5</u><br>Aquatic Vegetation <u>—</u><br>Rock or Shell Rubble<br>Sand <u>79.7</u> <u>2</u><br>Mud / Muck / Silt<br>Other <u>Gravel</u> <u>7.4</u> <u>3</u><br>Other                                                                                                                                                                                                                                                                                      |            |             | Meter ID: <u>8/21/2017</u> <u>0.5</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"/>                                                                                                                                                                                                                                                                                                                          |                |                                         | <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"/> |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| <b>ABUNDANCE</b><br>Not Obs. Rare Common Abundant<br>Periphyton: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Fish: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Aquatic Plants: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Iron/Sulfur Bacteria: <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |            |             | 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:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |              | Color Tannic <input type="checkbox"/> Green (Algae) <input type="checkbox"/><br>Clear <input checked="" type="checkbox"/> Other (Specify)                                                                                                                                                                                                                                                                                                                                                                                     |                |                                         | 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: Exp: |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |
| <b>System Type:</b> Stream <input checked="" type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other (Specify)                                                                                                                                                                                                                                                                                                                                                                                                    |            |             | <b>AMBIENT FIELD CONDITIONS / NOTES:</b><br><u>Water Quality Collected 8/21/2017 @ 13:55</u><br><input checked="" type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |             |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                |                                         |                                                                                                                                                                                                      |  |  |  |           |            |         |             |              |                 |                |            |      |            |             |            |            |           |           |            |  |      |  |  |  |  |  |  |  |                                         |         |            |  |  |  |  |  |  |  |

SAMPLING TEAM

F. Butler, S. Slade

SIGNATURE:

[Signature]

DATE:

8/22/2017

Location: Turkey Ck. abv Amos Cabiness

Rd.

Date:

8/22/2012

Sampler:

FFS 5.5

100 m: Latitude

30.87665

Longitude

86.90581

0 m: Latitude

30.87602

Longitude

86.90543

Substrates: Code key, draw

proportionate habitat abundance.

%

Snags

100%

200%

300%

400%

500%

600%

700%

800%

900%

1000%

1100%

1200%

1300%

1400%

1500%

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

|                                        |                           |                                                       |                                 |                                                  |
|----------------------------------------|---------------------------|-------------------------------------------------------|---------------------------------|--------------------------------------------------|
| SAMPLING AGENCY: <u>FL DEP - NWROC</u> |                           | STORET STATION NUMBER: <u>33030102</u>                | DATE (MM/DD/YY): <u>8/22/17</u> | RECEIVING BODY OF WATER: <u>Blackwater River</u> |
| SBIO ID: <u>77877</u>                  |                           |                                                       |                                 |                                                  |
| REMARKS:<br>SBIO ID: <u>14747</u>      | COUNTY: <u>Santa Rosa</u> | LOCATION: <u>Turkey Amos above Amos Cabiness Road</u> |                                 | FIELD ID/NAME: <u>33030102</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>13</u>                                                                                         | 20 19 18 17 16                                                                                                                                                                                                            | 15 14 <u>13</u> 12 11                                                                                                                                                   | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Substrate Availability <u>14</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 <u>14</u> 13 12 11                                                                                          | 6% to 15% major productive habitat<br>10 9 8 7 6                                                                                                  | Less than 5% major productive habitat<br>5 4 3 2 1                                                                                 |
| Water Velocity <u>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><u>20</u> 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>65</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 <u>18</u> 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>                                                                                   | <u>20</u> 19 18 17 16                                                                                                                                                                                                     | 15 14 13 12 11                                                                                                                                                          | 10 9 8 7 6                                                                                                                                        | 5 4 3 2 1                                                                                                                          |
| Bank Stability<br><u>5/10</u> Right Bank <u>6</u><br><u>4/10</u> Left Bank <u>5</u>                                   | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas.<br>10 9                                                            | Only meets 2 of the 3 requirements for optimal bank stability.<br>8 7 6                                                                                                 | Only meets 1 of the 3 requirements for optimal bank stability.<br>5 4                                                                             | Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.<br>3 2 1               |
| Riparian Buffer Zone Width<br>Right Bank <u>10</u><br>Left Bank <u>10</u>                                             | Width of vegetation greater than 18 m<br>10 9                                                                                                                                                                             | Width of vegetation >12 to 18m<br>8 7 6                                                                                                                                 | Width of vegetation 6 to 12 m. human activities close to system<br>5 4                                                                            | Less than 6 m of buffer zone due to intensive human activities<br>3 2 1                                                            |
| Riparian Zone Vegetation Quality<br>Right Bank <u>10</u><br>Left Bank <u>10</u><br>.....<br>Secondary Score <u>71</u> | Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants, tree, shrub, and forbs represented, if appropriate). Minimal disturbance.<br>10 9 | >50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.<br>8 7 6 | 25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.<br>5 4 | Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).<br>3 2 1 |

136 TOTAL SCORE

|                        |                              |                                |
|------------------------|------------------------------|--------------------------------|
| Date: <u>8/22/2017</u> | Analyst: <u>F. B. Butera</u> | Signature: <u>F. B. Butera</u> |
|------------------------|------------------------------|--------------------------------|

Habitat Assessment ID:

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

Site: Turkey Ck. above Amos Cabiness Rd.  
Ref.

County: Santa Rosa

Date: 8/22/2017

Investigators:

| Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover | Transect (m) | Point<br>1=right<br>9=left | Algal Thickness Rank<br>(N-6, X) | Estimated | Canopy Cover |    |
|--------------|----------------------------|----------------------------------|-----------|--------------|--------------|----------------------------|----------------------------------|-----------|--------------|----|
| 0            | 1                          | N                                |           |              | 60           | 1                          | N                                |           |              |    |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |    |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |    |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |    |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              | 91 |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |    |
| 10           | 1                          | N                                |           |              | 70           | 1                          | N                                |           |              |    |
|              | 2                          | N                                |           |              |              | 2                          | N                                |           |              |    |
|              | 3                          | N                                |           |              |              | 3                          |                                  |           |              |    |
|              | 4                          | N                                |           |              |              | 4                          |                                  |           |              |    |
|              | 5                          | N                                |           |              |              | 5                          |                                  |           |              | 92 |
|              | 6                          | N                                |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          | N                                |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          | N                                |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          | N                                |           |              |              | 9                          |                                  |           |              |    |
| 20           | 1                          | N                                |           |              | 80           | 1                          | N                                |           |              |    |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |    |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |    |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |    |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              | 89 |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |    |
| 30           | 1                          | N                                |           |              | 90           | 1                          | N                                |           |              |    |
|              | 2                          |                                  |           |              |              | 2                          | N                                |           |              |    |
|              | 3                          |                                  |           |              |              | 3                          | N                                |           |              |    |
|              | 4                          |                                  |           |              |              | 4                          | N                                |           |              |    |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              | 84 |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |    |
| 40           | 1                          | N                                |           |              | 100          | 1                          | N                                |           |              |    |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |    |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |    |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |    |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              | 96 |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |    |
| 50           | 1                          | N                                |           |              | 50           | 1                          | N                                |           |              |    |
|              | 2                          |                                  |           |              |              | 2                          |                                  |           |              |    |
|              | 3                          |                                  |           |              |              | 3                          |                                  |           |              |    |
|              | 4                          |                                  |           |              |              | 4                          |                                  |           |              |    |
|              | 5                          |                                  |           |              |              | 5                          |                                  |           |              | 86 |
|              | 6                          |                                  |           |              |              | 6                          |                                  |           |              |    |
|              | 7                          |                                  |           |              |              | 7                          |                                  |           |              |    |
|              | 8                          |                                  |           |              |              | 8                          |                                  |           |              |    |
|              | 9                          |                                  |           |              |              | 9                          |                                  |           |              |    |

STORET Station Number: 33030102

Field ID. 33030102

Secchi depth

Estimated?

# points ranked 4-6

total points assessed

% points ranked 4-6

Check accompanying data collected at same site/date.

Algal mat sample

Linear Veg Survey

Habitat Assessment

SCI/Biorecon

Water sample

RQ-2017-06-05-47

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                                  |

RPS ID 8771

VPDB ID N/A

SBIO ID. 77877

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%.

| DEP FORM FD 9000-32: LINEAR VEGETATION SURVEY FIELD SHEET                                                                                                                                                                                                                                                                                                                   |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------|-------|-------|-------|-------|-------|-------|-------|------------------------|--------------------------------------|---------------------------|------------|-------|--------------------|-------|-------|-------|-------|-------------------------|-------|--------|--------------------------------------|--|--|
| Waterbody: Turkey Ck. above Amos Cabiness Rd.                                                                                                                                                                                                                                                                                                                               |            |       |       |       |       |       |       |       |       | Date: 8/24/17          |                                      |                           |            |       | County: Santa Rosa |       |       |       |       | Storet Number: 33030102 |       |        |                                      |  |  |
| Analyst: P. Bulva                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       | Signature: [Signature] |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Comments: Instream veg. NO LUS collected                                                                                                                                                                                                                                                                                                                                    |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| 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. |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| HERBACEOUS SPECIES                                                                                                                                                                                                                                                                                                                                                          | Meter Mark |       |       |       |       |       |       |       |       |                        | Specime<br>n<br>collected<br>(check) | HERBACEOUS SPECIES        | Meter Mark |       |                    |       |       |       |       |                         |       |        | Specime<br>n<br>collected<br>(check) |  |  |
|                                                                                                                                                                                                                                                                                                                                                                             | 0-10       | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100                 |                                      |                           | 0-10       | 10-20 | 20-30              | 30-40 | 40-50 | 50-60 | 60-70 | 70-80                   | 80-90 | 90-100 |                                      |  |  |
| Alternanthera philoxeroides                                                                                                                                                                                                                                                                                                                                                 |            |       |       |       |       |       |       |       |       |                        |                                      | Micranthemum glomeratum   |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Bacopa caroliniana                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                        |                                      | Micranthemum umbrosum     |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Bacopa monnieri                                                                                                                                                                                                                                                                                                                                                             |            |       |       |       |       |       |       |       |       |                        |                                      | Myriophyllum aquaticum    |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Bidens mitis                                                                                                                                                                                                                                                                                                                                                                |            |       |       |       |       |       |       |       |       |                        |                                      | Najas guadelupensis       |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Boehmeria cylindrica                                                                                                                                                                                                                                                                                                                                                        |            |       |       |       |       |       |       |       |       |                        |                                      | Nuphar luteum             |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Centella asiatica                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                        |                                      | Orontium aquaticum        |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Ceratophyllum demersum                                                                                                                                                                                                                                                                                                                                                      |            |       |       |       |       |       |       |       |       |                        |                                      | Panicum hemitomon         |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Chara                                                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       |                        |                                      | Panicum repens            |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Cicuta maculata                                                                                                                                                                                                                                                                                                                                                             |            |       |       |       |       |       |       |       |       |                        |                                      | Panicum rigidulum         |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Cladium jamaicense                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                        |                                      | Pistia stratioides        |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Colocasia esculenta                                                                                                                                                                                                                                                                                                                                                         |            |       |       |       |       |       |       |       |       |                        |                                      | Polygonum glabra          |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Commelina diffusa                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                        |                                      | Polygonum hydropiperoides |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Commelina virginica                                                                                                                                                                                                                                                                                                                                                         |            |       |       |       |       |       |       |       |       |                        |                                      | Polygonum punctatum       |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Crinum americanum                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                        |                                      | Pontedaria cordata        |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Diodia virginiana                                                                                                                                                                                                                                                                                                                                                           |            |       |       |       |       |       |       |       |       |                        |                                      | Potamogeton illinoensis   |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Eichhornia crassipes                                                                                                                                                                                                                                                                                                                                                        |            |       |       |       |       |       |       |       |       |                        |                                      | Ruellia simplex           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Eleocharis (wispy viviparous)                                                                                                                                                                                                                                                                                                                                               |            |       |       |       |       |       |       |       |       |                        |                                      | Sacciolepis striata       |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Hydrilla verticillata                                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       |                        |                                      | Sagittaria kurziana       |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Hydrocotyle                                                                                                                                                                                                                                                                                                                                                                 |            |       |       |       |       |       |       |       |       |                        |                                      | Sagittaria lancifolia     |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Hygrophila polysperma                                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       |                        |                                      | Sagittaria latifolia      |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Hymenocallis                                                                                                                                                                                                                                                                                                                                                                |            |       |       |       |       |       |       |       |       |                        |                                      | Salvinia minima           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Lachnanthes caroliniana                                                                                                                                                                                                                                                                                                                                                     |            |       |       |       |       |       |       |       |       |                        |                                      | Samolus parviflora        |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Landoltia punctata                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                        |                                      | Saururus cernuus          |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Lemna                                                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       |                        |                                      | Sparganium americanum     |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Limnophila sessiflora                                                                                                                                                                                                                                                                                                                                                       |            |       |       |       |       |       |       |       |       |                        |                                      | Typha                     |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Ludwigia leptocarpa                                                                                                                                                                                                                                                                                                                                                         |            |       |       |       |       |       |       |       |       |                        |                                      | Vallisneria americana     |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Ludwigia palustris                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                        |                                      | Zizania aquatica          |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Ludwigia peruviana                                                                                                                                                                                                                                                                                                                                                          |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Ludwigia repens                                                                                                                                                                                                                                                                                                                                                             |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |
| Luziola fluitans                                                                                                                                                                                                                                                                                                                                                            |            |       |       |       |       |       |       |       |       |                        |                                      |                           |            |       |                    |       |       |       |       |                         |       |        |                                      |  |  |

|                                               |       |                    |                         |
|-----------------------------------------------|-------|--------------------|-------------------------|
| Waterbody: Tureky Ck. above Amos Cabiness Rd. | Date: | County: Santa Rosa | Storet Number: 33030102 |
| Analyst:                                      |       | Signature:         |                         |

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

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

[illegible][illegible]

Revision Date: March 1, 2014

0-10m

S 8.0  
 R 2.8  
 V 0.2  
 L 0.1  
 Gravel 0  
 Oils 0

Plants  
 60-70 <sup>years</sup> S 10 6.2  
 R 1  
 V 3.2  
 L 1  
 O 1 6.2

10-20

S 15  
 R 3  
 L 1  
 V 0.5  
 G 0.5  
 O 0

70-80

S 14  
 R 3.2  
 L 3.2  
 V 1  
 O 1

20-30

S 7.0  
 R 3  
 L 1.2  
 V 1  
 O 1

80-90

S 10  
 R 1.2  
 L 1.2  
 V 1  
 O 1

30-40

S 11.0  
 R 3  
 L 3  
 V 1  
 O 1

90-100

S 8  
 R 3.2  
 L 1  
 V 1  
 O 1

40-50

S 9  
 R 4  
 L 3  
 V 1  
 O 1

Gravel 3.0

50-60

S 9  
 R 4  
 L 2  
 V 1  
 O 1

Gr 2.0