# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
# STRATEGIC MONITORING PROGRAM FIELD SHEET

March 2017

PAGE 1 OF ____

Data Qualified? Yes / No

Location/STORET Station Name: Unnamed Ditch @100m US of Madeline Ave. Date: 6/8/17 (mm/dd/yyyy)

STORET #: G5CE0092 WBID: 2664 Latitude: 29.14263 (Decimal Degrees)

County: Volusia RQ - 2017-06-05-75 ORG ID: 21FLCEN Longitude: -81.04497 (Decimal Degrees)

Receiving Body of Water: _____ Field ID: G5CE0092

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| Terry Riordan | | ✓ | ✓ | ✓ | ✓ |
| Katie Williams | ✓ | | ✓ | ✓ | ✓ |

**Sampling Equipment**

- [x] Sample Container
- [ ] Carboy
- [ ] Dipper
- [ ] Van Dorn
- [x] Syringe
- [ ] Other _____
- [ ] Pole

Equipment ID _____

**Collection Method**

- [x] Wading
- [ ] From Shore
- [ ] Other (note below)

Via Boat
- [ ] Canoe/Kayak
- [ ] Electric Motor
- [ ] Gasoline Motor

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

Meter ID# Betty 67 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 (µmhos/cm) | Temp. (C°) |
|---|---|---|---|---|---|---|---|---|---|---|
| (EST) | 1115 | 0.3 | 0.5 | 1.1 | 13 | 6.9 | 0.26 | 0.5(b) | 536 | 24.5 |
| CEN | | | | | | | | | | |

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

SBIO ID Numbers: SBIO-ID: 77671 RPS-ID: 8707 Macrophyte-ID: 10504 LIMS#: 1905011

| Parameter Suite | Parameter Methods | Preservation | Acid Lot# | Expiration | pH Check |
|---|---|---|---|---|---|
| Preserved Nutrients | [x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | [x] Ice [x] $H_2SO_4$ | | | [x] <2 |
| Metals | [ ] W-ICPMS [ ] W-ICP | [ ] Ice [ ] $HNO_3$ | | | [ ] <2 |
| Filtered Nutrients | [x] W-PO4-F [x] Field Filtered 0.45 µm Filter | [x] Ice | | | |
| Chlorophyll | [x] CHLSUITE-W | [x] Ice | | | |
| Physical/Aggregate (Fresh) | [x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | [x] Ice | | | |
| Physical/Aggregate (Marine) | [ ] Alkalinity / W-F / W-TSS / TURBIDITY | [ ] Ice | | | |
| Macroinvertebrates | [ ] MI-FW-QLDC | [ ] Formalin | | | |
| Periphyton | [ ] ALGAE-ID | [ ] Ice | | | |
| Microbiology | [ ] E Coli [ ] F Coli [ ] Enterococci [ ] qPCR | [ ] Ice | | | |
| Tracers | [ ] W-SUC-AA-R [ ] W-UHERB-AA [ ] W-AHERB-AA | [ ] Ice | | | |
| Pesticides | [ ] W-PSNP-TQ [ ] W-AHERB-AA [ ] W-PYR-AA-R [ ] W-PCL-SQ-R [ ] W-UHERB-AA [ ] W-GLYPH [ ] W-SUC-AA-R | [ ] Ice [ ] Other | | | |

Contains 1:1 Sulfuric Acid SA – 7093010 EXP: 04/03/18 Warning! See SDS

Place Sticker(s) Here (if available)

**Notes:**

Unnamed Ditch @ 100m US of Madeline Ave.

RQ-2017-06-05-75

Date: 06/08/17

G5CE0092 Field ID ↑ STORET ↓ G5CE0092

Signature: KWilliams Date: 6/8/17

Field Parameters Entered into LIMS: KMW 6/12/17 (Initials/Date)

Field Parameters QC in LIMS: JA 6/21/17 (Initials/Date)

Date Migrated to STORET: CMO 8317 (Initials/Date)

Field Sheets Scanned/Saved: _____ (Initials/Date)

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

SAMPLE ID _____ ORG ID 21FLCEN LATITUDE 29.14263
COUNTY Volusia STORET # 65E60092 LONGITUDE -81.04497
DATE 6/8/17 TIME _____ SAMPLING AGENCY 21FLCEN
SITE NAME Unnamed Ditch 2666
FIELD ID/NAME _____ RECEIVING BODY OF WATER _____

## RIPARIAN ZONE / STREAM FEATURES

**PREDOMINANT LAND-USE IN WATERSHED** (specify relative percent in each category):

| Forest/Natural | Silviculture | Field/Pasture | Agricultural | Residential | Commercial | Industry | Other (Specify) |
|---|---|---|---|---|---|---|---|
| 10 | | | | 90 | | | |

**Landscape Development Intensity Index (LDI)**: _____

Local Watershed Erosion (select one): ☐ None ☐ Slight ☐ Moderate ☐ Heavy
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy

**Width of Riparian Vegetation (m) on Each Buffer Side**
Left Bank: >18 Right Bank: >18

**Hydrologic Modification Score** (per FT 3101): _____

**High Water Mark:** 0.5 (m) + 0.5 (above present water level) = 1 (present depth) (above bed)

**Artificially Impounded** ☐ Yes ☐ No ?

**Typical Width (m) Depth (m)/Velocity (m/sec) Transect**
5 m wide

| | | |
|---|---|---|
| 0.08 m/s | 0.09 m/s | 0.05 m/s |
| 0.3 m deep | 0.5 m deep | 0.3 m deep |

**Artificially Channelized:** ☐ No ☐ Some recovery ☐ Mostly recovered, more sinuous ☑ Recent, severe

**Canopy Cover %** ☐ Open ☑ Lightly Shaded (11-45%) ☐ Heavily Shaded ☐ Moderate Shaded (46-80%)

## SEDIMENT / SUBSTRATE

**Sediment Oils** ☑ Absent ☐ Slight ☐ Moderate ☐ Profuse

**Sediment Odors** ☐ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☑ Anaerobic ☐ Other (Specify):

**Smothering of Substrates**

| | None | Slight | Moderate | Severe |
|---|---|---|---|---|
| Sand Smothering: | ☑ | ☐ | ☐ | ☐ |
| Silt Smothering: | ☐ | ☐ | ☑ | ☐ |
| Algae Smothering: | ☐ | ☐ | ☑ | ☐ |

**SUBSTRATE TYPE**
Assessment Tool: ☐ SCI ☑ RPS ☑ LVS ☐ LCI ☐ BioRecon

| | % Coverage | INVERT # Times Sampled | PERI # Times Sampled |
|---|---|---|---|
| Woody Debris (Snags) | | | |
| Undercut Banks / Roots | | | |
| Leaf Packs or Mat ..... | | | |
| Aquatic Vegetation ..... | 20 | | |
| Rock or Shell Rubble.. | | | |
| Sand..... | | | |
| Mud / Muck / Silt ..... | | | |
| Other ..... | | | |
| Other ..... | | | |

**WATER QUALITY**

| | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat (%) | Cond. (UMHO/CM) | Salinity (PPT) | SECCHI (M) |
|---|---|---|---|---|---|---|---|---|
| Top: | 0.3 | 24.5 | 6.9 | 1.1 | 13 | 536 | 0.26 | ☑ VOB |
| Mid: | | | | | | | | |
| Bottom | | | | | | | | TOTAL DEPTH 0.5 |

Meter ID: Betty 67

**Water Odors** Normal ☑ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐

**Water Surface Oils** Normal ☑ Sheen ☐ Globs ☐ Slick ☐ Other ☐

Water Sample Taken? ☑ Yes ☐ No
Sample Preserved? ☑ Yes ☐ No
Lot Number: _____ Exp: _____

**Color** Tannic ☐ Green (Algae) ☐ Clear ☑ Other (Specify) ☐

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

**Clarity** Clear ☑ Slightly Turbid ☐ Turbid ☐ Opaque ☐

**ABUNDANCE**

| | Not Obs. | Rare | Common | Abundant |
|---|---|---|---|---|
| Periphyton: | ☐ | ☐ | ☑ | ☐ |
| Fish: | ☐ | ☐ | ☑ | ☐ |
| Aquatic Plants: | ☐ | ☐ | ☐ | ☑ |
| Iron/Sulfur Bacteria: | ☑ | ☐ | ☐ | ☐ |

**System Type:** Stream ☐ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☑ canal

**AMBIENT FIELD CONDITIONS / NOTES:**
overcast, lots of recent rain

☐ The antecedent hydrologic conditions have been met to my best knowledge.

**SAMPLING TEAM** Katie Williams, Terry Riordan
SIGNATURE: K Williams
DATE: 6/8/17

62-160.800, F.A.C.

Revision Date: March 1, 2014

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

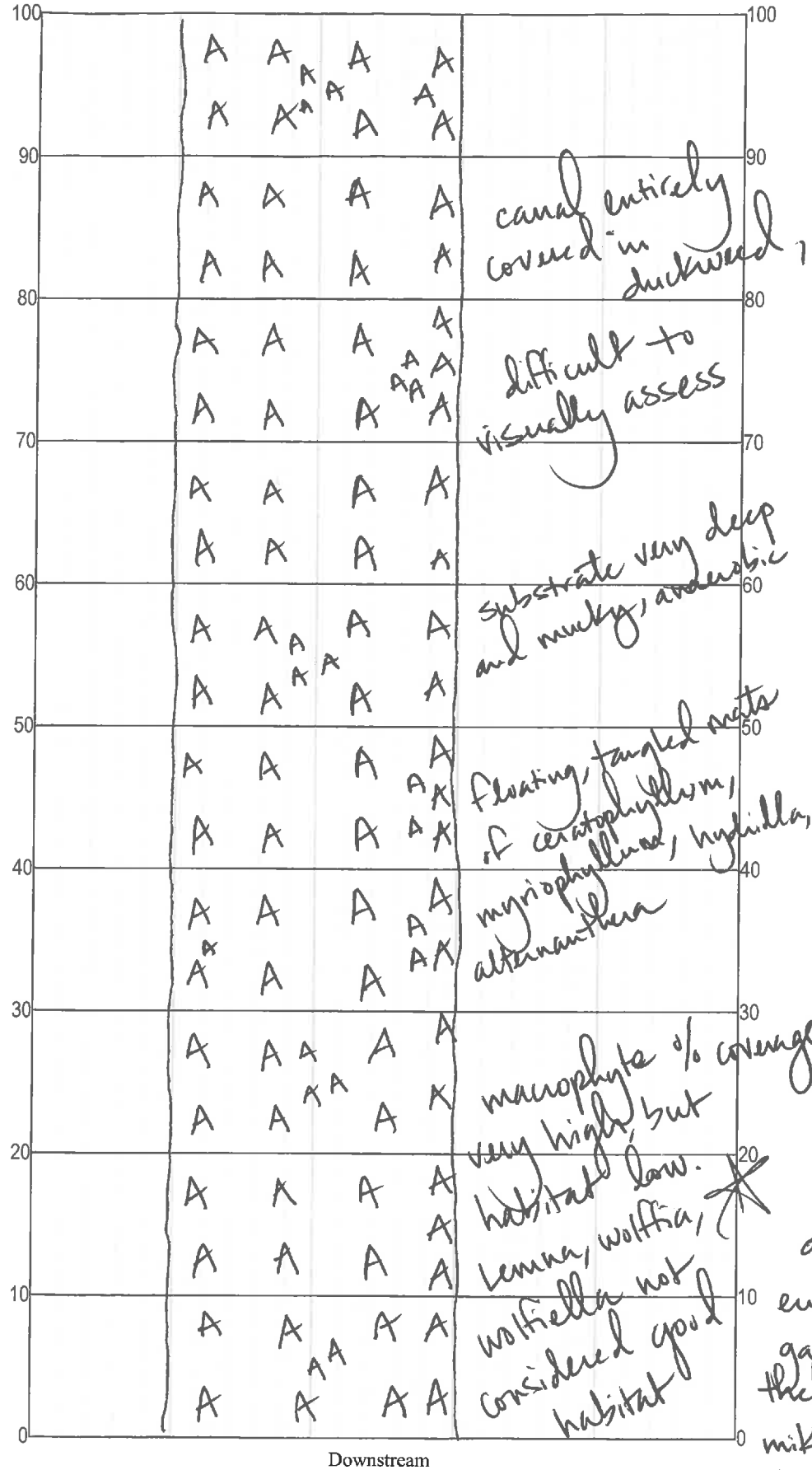
| SAMPLING AGENCY: | | STORET STATION NUMBER: | DATE (MM/DD/YY): | RECEIVING BODY OF WATER: |
|---|---|---|---|---|
| | | G5CE0092 | 6/8/17 | |
| REMARKS: | COUNTY: Volusia | LOCATION: Unnamed Ditch | | FIELD ID/NAME: G5CE0092 |

| Habitat Parameter | Optimal | Suboptimal | Marginal | Poor |
|---|---|---|---|---|
| Primary Habitat Components<br>**Substrate Diversity** 3 | Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]<br>20 19 18 17 16 | Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)<br>15 14 13 12 11 | Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed<br>10 9 8 7 6 | One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered<br>5 4 **3** 2 1 |
| **Substrate Availability** 13 | Greater than 30% major productive habitat present at site<br>20 19 18 17 16 | 16% to 30% major productive habitat, by aerial extent<br>15 14 13 12 11 | 6% to 15% major productive habitat<br>10 9 8 7 6 | Less than 5% major productive habitat<br>5 4 3 2 1 |
| **Water Velocity** 9 | Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec<br>≥0.33 0.31 0.29 0.27 >0.25<br>20 19 18 17 16 | Max. observed at typical transect: >0.1 to 0.25 m/sec<br>0.25 0.21 0.17 0.13 >0.1<br>15 14 13 12 11 | Max. observed at typical transect: 0.05 to 0.1 m/sec<br>0.1 0.09 0.07 0.06 0.05<br>**10** **9** 8 7 6 | Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec<br><0.05 0.04 0.03 0.01 <0.01<br>5 4 3 2 1 |
| **Habitat Smothering** 3<br>Primary Score 28 | Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.<br>20 19 18 17 16 | Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae.<br>15 14 13 12 11 | Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth).<br>10 9 8 7 6 | Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.<br>5 4 3 2 1 |
| Secondary Habitat Components<br>**Artificial Channelization** 2 | Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.<br>20 19 18 17 16 | Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.<br>15 14 13 12 11 | Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.<br>10 9 8 7 6 | Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.<br>5 4 3 **2** 1 |
| **Bank Stability**<br>Right Bank 6<br>Left Bank 6 | Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankful 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 9<br>Left Bank 10 | 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 6<br>Left Bank 6<br>Secondary Score 49 | 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 |

77 **TOTAL SCORE**

| Date: 6/8/17 | Analyst: Katie Williams | Signature: K Williams |
|---|---|---|

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




Downstream

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

Location: Unnamed Ditch

Date: 6/8/17

Sampler: Katie Williams

100 m: Latitude _____
Longitude _____

0 m: Latitude _____
Longitude _____

Substrates: Code key, draw proportionate habitat abundance. %

| | | |
|---|---|---|
| | Snags | |
| | Roots/undercut banks | |
| | Leaf Packs (or mats) | |
| A | Aquatic Macrophytes | 20 |
| | | |
| | | |
| | Pools | total # observed = ____ # range expected = ____ |

Average width 5 m
Average depth _____ m

Velocity measured at _____ meter mark.

WQ & chemistry taken at _____ meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

acer rubrum, boehmeria, eupatorium, echinochloa crus galli, myrica, buttonbush, thelypteris interrupta, mikania, miganthemum umb., melaleuca, ilex cassine, L. octovalvis, L. peruviana, Diodia

62-160.800, F.A.C

Revision Date: March 1, 2014

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

Waterbody: Unnamed Ditch | Date: 6/9 | County: Volusia | Storet Number: 65CE0092

Analyst: Katie Williams | Signature:

Comments: see below

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 $m^2$ 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 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | Specimen collected (check) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Alternanthera philoxeroides | / | / | / | / | | / | / | / | / | / | |
| Bacopa caroliniana | | | | | | | | | | | |
| Bacopa monneri | | | | | | | | | | | |
| Bidens mitis | | | | | | | | | | | |
| Boehmeria cylindrica | | | | | | | | | | | |
| Centella asiatica | | | | | | | | | | | |
| Ceratophyllum demersum | / | / | / | | / | / | | / | / | | |
| Chara | | | | | | | | | | | |
| Cicuta maculata | | | | | | | | | | | |
| Cladium jamaicense | | | | | | | | | | | |
| Colocasia esculenta | | | | | | | | | | | |
| Commelina ~~diffusa~~ sp | / | | / | | | / | / | | | / | |
| Commelina virginica | | | | | | | | | | | |
| Crinum americanum | | | | | | | | | | | |
| Diodia virginiana | | | | | | | | | | | |
| Eichhornia crassipes | | | | | | | | | | | |
| Eleocharis (wispy viviparous) | | | | | | | | | | | |
| Hydrilla verticillata | | | | | / | | / | / | | | |
| Hydrocotle | / | / | / | | / | / | / | / | | / | |
| Hygrophila polysperma | | | | | | | | | | | |
| Hymenocallis | | | | | | | | | | | |
| Lachnanthes caroliniana | | | | | | | | | | | |
| Landoltia punctata | | | | | | | | | | | |
| Lemna | / | / | / | / | / | / | / | / | / | | |
| Limnophila sessiflora | | | | | | | | | | | |
| Ludwigia leptocarpa | | | | | | | | | | | |
| Ludwigia palustris | | | | | | | | | | | |
| Ludwigia peruviana | | | | | | | | | | | |
| Ludwigia repens | | | | | | | | | | | |
| Luziola fluitans | / | / | / | / | / | / | / | / | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |
| | | | | | | | | | | | |
| If no Dominant or Co-Dominant were selected, indicate with "X" | / | / | / | / | / | / | / | / | / | / | |
| Indicate % cover macrophytes per section | | | | | | | | | | | |
| 0-5% Macrophyte Coverage | | | | | | | | | | | |
| >5 and ≤10% Macrophyte Coverage | | | | | | | | | | | |
| >10 and ≤25% Macrophyte Coverage | | | | | | | | | | | |
| >25 and ≤50% Macrophyte Coverage | | | | | | | | | | | |
| > 50% Macrophyte Coverage | / | / | / | / | | | | | | | |

| HERBACEOUS SPECIES | Meter Mark 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | Specimen collected (check) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Micranthemum glomeratum | | | | | | | | | | | |
| Micranthemum umbrosum | | | | | | | | | | | |
| Myriophyllum aquaticum | / | / | / | / | / | / | / | | / | | |
| Najas guadelupensis | | | | | | | | | | | |
| Nuphar luteum | | | | | | | | | | | |
| Orontium aquaticum | | | | | | | | | | | |
| Panicum hemitomon | | | | | | | | | | | |
| Panicum repens | | | | | | | | | | | |
| Panicum rigidulum | | | | | | | | | | | |
| Pistia stratioides | | | | | | | | | | | |
| Polygonum glabra | | | | | | | | | | | |
| Polygonum hydropiperoides | | | | | | | | | | | |
| Polygonum punctatum | | | | | | | | | | | |
| Pontedaria cordata | | | | | | | | | | | |
| Potamogeton illinoensis | | | | | | | | | | | |
| Ruellia simplex | | | | | | | | | | | |
| Sacciolepis striata | / | / | | / | / | / | | / | / | / | |
| Sagittaria kurziana | | | | | | | | | | | |
| Sagittaria lancifolia | | | | | | | | | | | |
| Sagittaria latifolia | | | | | | | | | | | |
| Salvinia minima | | / | | | / | | | | | | |
| Samolus parviflora | | | | | | | | | | | |
| Saururus cernuus | | | | | | | | | | | |
| Sparganium americanum | | | | | | | | | | | |
| Typha | | | | | | | | | | | |
| Vallisneria americana | | | | | | | | | | | |
| Zizania aquatica | | | | | | | | | | | |
| | | | | | | | | | | | |
| Wolffia | / | / | / | / | / | / | / | / | / | | |
| Wolffiella | / | / | / | / | / | / | / | / | / | / | |
| Rumex | | | | | | | | / | | | |
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Equal parts lemna, wolffia, wolffiella covering most. Mats of alternanthera, ceratophyllum, hydrilla, myriophyllum. Sacciolepis on side.

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

Site: Unnamed Pitch 2666 | County: Volusia | Date: 6-8-17 | Investigators: Terry Riordan / Katie / William

STORET Station Number: GSCE0092

| Transect (m) | Point 1=right 9=left | Algal Thickness Rank (N-6, X) | Estimated | Canopy Cover |
|---|---|---|---|---|
| 0 | 1 | N | N | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | 50 |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | N | | |
| 10 | 1 | N | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | 84 |
| | 6 | | | |
| | 7 | | | |
| | 8 | 3 | | |
| | 9 | N | | |
| 20 | 1 | N | | |
| | 2 | 3 | | |
| | 3 | 3 | | |
| | 4 | N | | |
| | 5 | | | 44 |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | N | | |
| 30 | 1 | N | | |
| | 2 | | | |
| | 3 | | | |
| | 4 | | | |
| | 5 | | | 40 |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | N | | |
| 40 | 1 | 4 | | |
| | 2 | 4 | | |
| | 3 | N | | |
| | 4 | | | |
| | 5 | | | 84 |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | N | | |
| 50 | 1 | N | | |
| | 2 | 3 | | |
| | 3 | N | | |
| | 4 | 4 | | |
| | 5 | N | | 72 |
| | 6 | N | | |
| | 7 | N | | |
| | 8 | N | | |
| | 9 | 4 | N | |

| Transect (m) | Point 1=right 9=left | Algal Thickness Rank (N-6, X) | Estimated | Canopy Cover |
|---|---|---|---|---|
| 60 | 1 | N | N | |
| | 2 | N | | |
| | 3 | N | | |
| | 4 | 4 | | |
| | 5 | 4 | | 80 |
| | 6 | N | | |
| | 7 | N | | |
| | 8 | 3 | | |
| | 9 | N | | |
| 70 | 1 | N | | |
| | 2 | 4 | | |
| | 3 | N | | |
| | 4 | | | |
| | 5 | | | 76 |
| | 6 | | | |
| | 7 | | | |
| | 8 | N | | |
| | 9 | 3 | | |
| 80 | 1 | N | | |
| | 2 | 3 | | |
| | 3 | 3 | | |
| | 4 | N | | |
| | 5 | N | | 84 |
| | 6 | 3 | | |
| | 7 | N | | |
| | 8 | 3 | | |
| | 9 | N | | |
| 90 | 1 | N | | |
| | 2 | N | | |
| | 3 | N | | |
| | 4 | 3 | | |
| | 5 | N | | 76 |
| | 6 | N | | |
| | 7 | N | | |
| | 8 | 4 | | |
| | 9 | N | | |
| 100 | 1 | N | | |
| | 2 | 3 | | |
| | 3 | 3 | | |
| | 4 | N | | |
| | 5 | 1 | | 78 |
| | 6 | | | |
| | 7 | | | |
| | 8 | | | |
| | 9 | N | N | |

| | |
|---|---|
| Secchi depth | 0.3 |
| Estimated? | N |
| # points ranked 4-6 | 4 |
| total points assessed | 99 |
| % points ranked 4-6 | 4 |

(Exclude X's)

| Check accompanying data collected at same site/date. | |
|---|---|
| Algal mat sample | |
| Linear Veg Survey | ✓ |
| Habitat Assessment | ✓ |
| SCI/Biorecon | |
| Water sample | ✓ |

RQ- 2017-06-05-75

| 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 |

(> 3 considered smothered)

(N to 1 mm)

(3) 6mm

(4) 20mm

(5) 10cm

(6)

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%.