

scanned 1/29/2019 SEP data entry 9/26/2018 SEP

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 78894 MACROPHYTE ID: 11075 LATITUDE: 30.5888  
 COUNTY: JACKSON STORET #: WAS16POR LONGITUDE: -85.27763  
 DATE: 8/22/18 TIME: 1207 EST SAMPLING AGENCY: FDEP/AEQA  
 SITE NAME: Porter Pond WBID: 518  
 FIELD ID/NAME: PORTER POND LAKE SIZE: 21 acres RQ:

WATERSHED / LAKESIDE FEATURES RQ-2018-08-20-24

|                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                      |  |                                                                                                                                |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category - from GIS):<br>Forest/Natural <input checked="" type="checkbox"/> Silviculture <input checked="" type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other (Specify) <input type="checkbox"/> |  |                                                                                                                      |  | <b>LANDSCAPE DEVELOPMENT INTENSITY</b> (100 m buffer)<br><br>LDI: <u>no LDI</u><br><br>Land Use Source & Year:                 |  |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy<br>Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input checked="" type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                         |  |                                                                                                                      |  | Artificially Impounded <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                     |  |
| <b>STORMWATER INPUTS</b><br><u>18</u><br>Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation<br>20 19 18 17 16                                                                                                                                                                                                                                                                                           |  | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place<br>15 14 13 12 11 |  | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place<br>10 9 8 7 6       |  |
| <b>LAKESIDE ALTERATIONS</b><br><u>17</u><br>Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)<br>20 19 18 17 16                                                                                                                                                                                                                                                                          |  | Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)<br>15 14 13 12 11              |  | Many structures, roads or other human disturbance visible (50%-70% lakeside affected)<br>10 9 8 7 6                            |  |
| <b>BUFFER ZONE</b><br><u>17</u><br>Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer<br>20 19 18 17 16                                                                                                                                                                                                                                                                             |  | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer<br>15 14 13 12 11                               |  | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br>10 9 8 7 6                                          |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                      |  | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place<br>5 4 3 2 1 |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                      |  | Highly developed or disturbed (>70% of lakeside affected)<br>5 4 3 2 1                                                         |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |                                                                                                                      |  | < 29% of shoreline with >18m buffer<br>5 4 3 2 1                                                                               |  |

WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                             |  |  |                                                                                                                                                      |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| <b>Water:</b><br>Nutrient Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Preserved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> pH<2 <input type="checkbox"/> No<br>Color Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Lot # _____ Exp. Date: _____<br>Alkalinity Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Water Level <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> High |  |  |  |  |  | <b>Water Odors:</b> <input checked="" type="checkbox"/> Normal<br><input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____<br><br><b>Water Surface Oils:</b> <input checked="" type="checkbox"/> None<br><input type="checkbox"/> Sheen/Slick <input type="checkbox"/> Glob <input type="checkbox"/> Other _____                                                                                                                                                                                                                          |  |  |                             |  |  |                                                                                                                                                      |  |  |  |  |  |
| <b>Meter Readings:</b><br>Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT)<br>Top: <u>0.2</u> <u>30.0</u> <u>4.67</u> <u>6.4</u> <u>84.5</u> <u>10.8</u><br>Mid-Depth: <u>2.5</u> <u>29.5</u> <u>4.30</u> <u>6.4</u> <u>77.0</u> <u>10.7</u><br>Bottom: <u>4.9</u> <u>29.4</u> <u>4.34</u> <u>5.22</u> <u>67.7</u> <u>12.9</u>                                                                                                                                                                                                   |  |  |  |  |  | <b>Clarity:</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Opaque <input type="checkbox"/> Turbid <input type="checkbox"/> Slightly Turbid<br><b>Color:</b> <input checked="" type="checkbox"/> Clear <input type="checkbox"/> Tannic <input type="checkbox"/> Green<br><br>SECCHI (M) <u>4.9</u> Total Station Depth (M) <u>5.0</u><br>VOB <input type="checkbox"/>                                                                                                                                                                                             |  |  |                             |  |  |                                                                                                                                                      |  |  |  |  |  |
| Meter ID: <u>AEQAS 154186</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |  |  | <b>Sediment Type:</b> (may check more than one)<br><input checked="" type="checkbox"/> Sandy <input type="checkbox"/> Organic fibrous (peaty, CPOM) <input checked="" type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____<br>Sample Taken? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                              |  |  |                             |  |  | <b>Sediment Odors:</b> <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Anaerobic <input type="checkbox"/> Other (Specify): _____ |  |  |  |  |  |
| <b>Biological Communities:</b><br>LVI Conducted? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Phytoplankton Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Lot #: _____ Exp Date: _____<br>Algal Bloom/Algal ID Sample Taken? Yes <input checked="" type="checkbox"/> No<br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Don't Know  |  |  |  |  |  | <b>Abundance:</b><br>Absent Rare Common Abundant<br>Periphyton <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Nuisance Plants <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Submersed Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Exotic Apple Snails <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |                             |  |  | <b>Additional Notes:</b>                                                                                                                             |  |  |  |  |  |
| <b>Weather Conditions:</b> <u>Sunny 90°</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |  |                             |  |  |                                                                                                                                                      |  |  |  |  |  |
| <b>SAMPLING TEAM:</b> <u>NIA Wellendorf, Jay Jackson</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |  |  | <b>SIGNATURE:</b> <u>NIA Wellendorf</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  | <b>DATE:</b> <u>8/22/18</u> |  |  |                                                                                                                                                      |  |  |  |  |  |

LIMS 2019125

## DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

|                                                                                                                                                            |                               |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|
| Waterbody: <u>Porter Pond</u>                                                                                                                              | County: <u>Jackson</u>        | Date: <u>8/22/18</u>                   |
| Analyst: <u>NIA Wellerhoff, Joy Jackson</u>                                                                                                                | Signature: <u>[Signature]</u> | STORET: <u>WAS 16 POR</u>              |
| Except where noted as "sp." species level identification required. *Genera that may require lab verification*                                              |                               | Lake units sampled (circle one group): |
| Plants in bold = FLEPPC invasive exotic.                                                                                                                   |                               | 1, 4, 7, 10 <u>2, 5, 8, 11</u>         |
| It is important to note dominant or co-dominant taxa (by areal extent) for each unit. Use "D" to denote dominant taxon, or "C" for the 2 co-dominant taxa. |                               | 3, 6, 9, 12                            |

| SPECIES                                                 | 2 | 5 | 8 | 11 | Collected? (✓) | SPECIES                                        |  |   |   |   | Collected? (✓) |
|---------------------------------------------------------|---|---|---|----|----------------|------------------------------------------------|--|---|---|---|----------------|
| Acer rubrum                                             |   |   |   |    |                | Habenaria repens                               |  |   |   |   |                |
| <b>Alternanthera philoxeroides</b>                      |   |   |   |    |                | <b>Hydrilla verticillata</b>                   |  |   |   |   |                |
| Andropogon sp.                                          |   |   |   |    |                | Hydrocotyle sp.                                |  |   |   |   |                |
| Azolla filiculoides (A. caroliniana)                    |   |   |   |    |                | <b>Hygrophila polysperma</b>                   |  |   |   |   |                |
| Baccharis sp.                                           |   |   |   |    |                | *Hypericum fasciculatum                        |  | 1 | 1 | 1 | 1              |
| Bacopa caroliniana                                      |   |   |   |    |                | *Hypericum hypericoides                        |  |   |   |   |                |
| Bacopa monnieri                                         |   |   |   |    |                | *Hypericum myrtifolium                         |  |   |   |   |                |
| Bidens laevis                                           |   |   |   |    |                | Ilex cassine <u>myrtifolia</u>                 |  | 1 | 1 | 1 | 1              |
| Bidens mitis                                            |   |   |   |    |                | <b>Ipomoea aquatica</b>                        |  |   |   |   |                |
| Blechnum serrulatum                                     |   |   |   |    |                | Ipomoea sagittata                              |  |   |   |   |                |
| Boehmeria cylindrica                                    |   |   |   |    |                | Itea virginica                                 |  |   |   |   |                |
| Brasenia schreberi                                      |   | 1 | 1 | 1  |                | Juncus effusus                                 |  |   |   |   |                |
| Cabomba caroliniana                                     |   |   |   |    |                | *Juncus marginatus                             |  |   |   |   |                |
| <b>Casuarina equisetifolia</b>                          |   |   |   |    |                | *Juncus megacephalus                           |  |   |   |   |                |
| Centella asiatica                                       |   |   |   |    |                | Juncus repens                                  |  |   |   |   |                |
| Cephalanthus occidentalis                               |   |   |   |    |                | *Juncus scirpoides                             |  |   |   |   |                |
| Ceratophyllum demersum                                  |   |   |   |    |                | Lachnanthes caroliniana                        |  |   |   |   |                |
| Chara sp.                                               |   |   |   |    |                | Leersia hexandra                               |  |   | 1 | 1 |                |
| Cladium jamaicense                                      |   |   |   |    |                | <b>Landoltia punctata (Spirodela punctata)</b> |  |   |   |   |                |
| Cliftonia monophylla                                    |   |   |   |    |                | Lemna sp.                                      |  |   |   |   |                |
| <b>Colocasia esculenta</b>                              |   |   |   |    |                | Leucothoe racemosa (Eubotrys racemosa)         |  |   |   |   |                |
| *Commelina                                              |   |   |   |    |                | Limnium sp.                                    |  |   |   |   |                |
| Crinum americanum                                       |   |   |   |    |                | <b>Limnophila sessiliflora</b>                 |  |   |   |   |                |
| *Cyperus alternifolius (C. involucratus)                |   |   |   |    |                | Liquidambar styraciflua                        |  |   |   |   |                |
| Cyperus articulatus                                     |   |   |   |    |                | *Ludwigia arcuata                              |  |   |   |   |                |
| Cyperus haspan                                          |   |   |   |    |                | *Ludwigia leptocarpa                           |  |   |   |   |                |
| *Cyperus lecontei                                       |   |   |   |    |                | *Ludwigia linearis                             |  |   |   |   |                |
| *Cyperus polystachyos                                   |   |   |   |    |                | *Ludwigia octovalvis                           |  |   |   |   |                |
| *Cyperus odoratus                                       |   |   |   |    |                | * <b>Ludwigia peruviana</b>                    |  |   |   |   |                |
| *Cyperus surinamensis                                   |   |   |   |    |                | *Ludwigia repens                               |  |   |   |   |                |
| Cyrtilla racemiflora                                    |   | 1 |   |    |                | *Ludwigia                                      |  |   |   |   |                |
| Decodon verticillatus                                   |   |   |   |    |                | Luziola fluitans (Hydrochloa carolinensis)     |  |   |   |   |                |
| Diodia virginiana                                       |   |   |   |    |                | Lyonia lucida                                  |  |   |   |   |                |
| *Echinochloa crus-galli                                 |   |   |   |    |                | Magnolia virginiana                            |  |   |   |   |                |
| *Echinochloa muricatum                                  |   |   |   |    |                | Mayaca fluviatilis                             |  |   |   |   |                |
| Echinochloa walteri                                     |   |   |   |    |                | <b>Melaleuca quinquenervia</b>                 |  |   |   |   |                |
| Eclipta prostrata (E. alba)                             |   |   |   |    |                | Micranthemum glomeratum                        |  |   |   |   |                |
| <b>Egeria densa</b>                                     |   |   |   |    |                | Micranthemum umbrosum                          |  |   |   |   |                |
| <b>Eichhornia crassipes</b>                             |   |   |   |    |                | Mikania scandens                               |  |   |   |   |                |
| *Eleocharis baldwinii                                   |   |   |   |    |                | <b>Mimosa pigra</b>                            |  |   |   |   |                |
| *Eleocharis                                             |   |   |   |    |                | Myrica cerifera                                |  |   |   |   |                |
| Eleocharis cellulosa <u>rhomboides</u>                  |   |   |   | 1  |                |                                                |  |   |   |   |                |
| Eleocharis equisetoides                                 |   |   |   |    |                | <u>campanulata</u>                             |  |   |   |   |                |
| Eleocharis interstincta                                 |   |   |   |    |                | <u>Sagittaria brachyloba</u>                   |  | 1 | 1 |   | ✓              |
| *Eriocaulon compressum <u>sp. 1 - read to leaf cent</u> |   | 1 | 1 | 1  | ✓              | <u>Rhexia mariana</u>                          |  | 1 | 1 | 1 | ✓              |
| *Eriocaulon decangulare <u>sp. 2 (small)</u>            |   | 1 | 1 | 1  | ✓              | <u>Unknown w/ reddish fruit</u>                |  | 1 |   |   | ✓              |
| Eupatorium capillifolium                                |   |   |   |    |                | <u>Viola lanceolata</u>                        |  |   |   |   |                |
| *Fuirena                                                |   |   |   |    |                |                                                |  |   |   |   |                |
| Fuirena scirpoidea                                      |   |   |   |    |                |                                                |  |   |   |   |                |
| Gordonia lasianthus                                     |   |   |   |    |                |                                                |  |   |   |   |                |

## FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

| Site: <i>Porter Pond</i>                       |            |   |   |    |                   | Date: <i>8/22/18</i>                              |           |           |           |           |                   |
|------------------------------------------------|------------|---|---|----|-------------------|---------------------------------------------------|-----------|-----------|-----------|-----------|-------------------|
| SPECIES                                        | 2          | 5 | 8 | 11 | Collected?<br>(✓) | SPECIES                                           | 2         | 5         | 8         | 11        | Collected?<br>(✓) |
| Myriophyllum aquaticum                         |            |   |   |    |                   | Salix caroliniana                                 |           |           |           |           |                   |
| *Myriophyllum heterophyllum                    |            |   |   |    |                   | Salvinia minima                                   |           |           |           |           |                   |
| *Myriophyllum laxum                            | 1          | 1 |   |    |                   | Sambucus canadensis                               |           |           |           |           |                   |
| *Myriophyllum pinnatum                         |            |   |   |    |                   | Sapium sebiferum                                  |           |           |           |           |                   |
| Myriophyllum spicatum                          |            |   |   |    |                   | Saururus cernuus                                  |           |           |           |           |                   |
| *Najas filifolia                               |            |   |   |    |                   | Schinus terebinthifolius                          |           |           |           |           |                   |
| *Najas guadalupensis                           |            |   |   |    |                   | *Schoenoplectus californicus                      |           |           |           |           |                   |
| *Najas minor                                   |            |   |   |    |                   | *Schoenoplectus pungens                           |           |           |           |           |                   |
| Nelumbo lutea                                  |            |   |   |    |                   | *Schoenoplectus tabernaemontani (Scirpus validus) |           |           |           |           |                   |
| Nitella spp.                                   |            |   |   |    |                   | Scirpus cubensis (Oxycaryon cubense)              |           |           |           |           |                   |
| Nuphar sp.                                     | 1          |   |   |    |                   | Scirpus cyperinus                                 |           |           |           |           |                   |
| Nymphaea odorata                               | 1          | 1 | 1 | 1  |                   | *Sesbania                                         |           |           |           |           |                   |
| Nymphoides aquatica                            | <i>NO</i>  |   |   |    |                   | Solidago sp.                                      |           |           |           |           |                   |
| Nyssa sylvatica var. biflora                   | <i>(N)</i> |   |   |    |                   | Sparganium americanum                             |           |           |           |           |                   |
| Orontium aquaticum                             |            |   |   |    |                   | Spartina bakeri                                   |           |           |           |           |                   |
| Osmunda cinnamomea                             |            |   |   |    |                   | Spirodela polyrhiza                               |           |           |           |           |                   |
| Osmunda regalis                                |            |   |   |    |                   | Taxodium sp.                                      |           |           |           |           |                   |
| Panicum hemitomon                              | 1          | 1 | 1 | 1  |                   | Thalia geniculata                                 |           |           |           |           |                   |
| Panicum repens                                 |            |   |   |    |                   | Thelypteris palustris                             |           |           |           |           |                   |
| Paspalidium geminatum                          |            |   |   |    |                   | Triadenum virginicum                              |           |           |           |           |                   |
| *Paspalum repens                               |            |   |   |    |                   | Typha sp.                                         |           |           |           |           |                   |
| Paspalum urvillei                              |            |   |   |    |                   | Urochloa mutica (Brachiaria mutica)               |           |           |           |           |                   |
| Peltandra sp.                                  |            |   |   |    |                   | *Utricularia gibba (U. biflora)                   |           |           |           |           |                   |
| Persea sp.                                     |            |   |   |    |                   | *Utricularia floridana                            | <i>DD</i> | <i>DD</i> | <i>DD</i> | <i>DD</i> |                   |
| Pennisetum purpureum                           |            |   |   |    |                   | *Utricularia foliosa                              |           |           |           |           |                   |
| Phragmites australis                           |            |   |   |    |                   | *Utricularia inflata                              |           |           |           |           |                   |
| Pinus elliotii                                 |            |   |   |    |                   | *Utricularia purpurea                             |           |           |           |           |                   |
| Pistia stratioides                             |            |   |   |    |                   | *Utricularia cornuta                              |           |           |           |           |                   |
| Pluchea sp.                                    |            |   |   |    |                   | *Utricularia radiata                              |           |           |           |           |                   |
| *Polygonum glabrum (densiflorum)               |            |   |   |    |                   | Vallisneria americana                             |           |           |           |           |                   |
| *Polygonum hydropiperoides                     |            |   |   |    |                   | *Websteria confervoides                           |           |           |           |           |                   |
| *Polygonum punctatum                           |            |   |   |    |                   | Wedelia trilobata (Sphagneticola trilobata)       |           |           |           |           |                   |
| *Polygonum                                     |            |   |   |    |                   | Wolffiella spp.                                   |           |           |           |           |                   |
| Pontederia cordata                             |            |   |   |    |                   | Woodwardia virginica                              |           |           |           |           |                   |
| *Potamogeton diversifolius                     |            |   |   |    |                   | Xyris sp.                                         | 1         | 1         | 1         | 1         |                   |
| *Potamogeton illinoensis                       |            |   |   |    |                   | Zizania aquatica                                  |           |           |           |           |                   |
| *Potamogeton pusillus                          |            |   |   |    |                   | Zizaniopsis milacea                               |           |           |           |           |                   |
| *Potamogeton pectinatus (Stuckenia pectinatus) |            |   |   |    |                   | <i>Lycopodium aloperaroides</i>                   | 1         | 1         |           |           |                   |
| Proserpinaca pectinata                         |            |   |   |    |                   | <i>Scleria reticularis</i>                        | 1         | 1         | 1         | 1         | <i>NW</i>         |
| *Rhexia                                        |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| *Rhynchospora comiculata <i>nitens</i>         |            |   | 1 | 1  |                   |                                                   |           |           |           |           |                   |
| *Rhynchospora inundata                         |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| Rhynchospora tracyi                            | 1          | 1 | 1 | 1  |                   |                                                   |           |           |           |           |                   |
| Ricciocarpus natans                            |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| Sabal palmetto                                 |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| Sacciolepis striata                            |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| *Sagittaria filiformis                         |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| *Sagittaria graminea                           |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| *Sagittaria isoetiformis                       |            |   | 1 | 1  | <i>NW</i>         |                                                   |           |           |           |           |                   |
| Sagittaria lancifolia                          |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| Sagittaria latifolia                           |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| <i>Rhynchospora sarothra</i>                   |            |   | 1 |    | <i>NW</i>         |                                                   |           |           |           |           |                   |
| <i>Strophophylla</i>                           |            |   |   |    |                   |                                                   |           |           |           |           |                   |
| <i>CHT 15511</i>                               |            |   |   |    |                   |                                                   |           |           |           |           |                   |

SITE NAME: Porter Pond DATE: 8/22/18 TIME 1207 <sup>EST</sup> CST DEPTH<sup>A</sup>: 0.2 ft (n) FIELD ID: \_\_\_\_\_  
 (military)

| SAMPLING TEAM MEMBERS | WQ MEASUREMENTS | DOCUMENTATION | SAMPLE COLLECTION | PRESERVATION | PRESERVATION CHECK |
|-----------------------|-----------------|---------------|-------------------|--------------|--------------------|
| Joy Jackson           | ✓               |               |                   |              |                    |
| Nia Wellendorf        |                 | ✓             | ✓                 | ✓            | ✓                  |
|                       |                 |               |                   |              |                    |
|                       |                 |               |                   |              |                    |

| SAMPLING EQUIPMENT                                   |                                              |
|------------------------------------------------------|----------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Tubing type: _____  |
| <input type="checkbox"/> Pole                        | <input type="checkbox"/> Other _____         |
| <input type="checkbox"/> Pump ID#: _____             | <input type="checkbox"/> Other _____         |
| WATER QUALITY MEASUREMENTS                           |                                              |
| Instrument ID: <u>AEQAS 154186</u>                   |                                              |
| COLLECTION MODE                                      |                                              |
| <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Via Boat |
| <input type="checkbox"/> Diving                      | <input checked="" type="checkbox"/> Canoe    |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor      |
| <input type="checkbox"/> Other _____                 | <input type="checkbox"/> Gasoline Motor      |

| Parameter Suite                 | Parameter(s)/Method                                                                                                                                                                                                                                                                                                                                                                                                                                 | Matrix Code <sup>*</sup> | Preservation <sup>**</sup>                                                                                                                         | Preservative Lot # | pH Check                               | # Bottles *** |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|---------------|
| Preserved Nutrients             | <input checked="" type="checkbox"/> TKN <input checked="" type="checkbox"/> TP <input checked="" type="checkbox"/> NO <sub>x</sub> <input checked="" type="checkbox"/> NH <sub>3</sub> <input type="checkbox"/> TOC <input type="checkbox"/> Total N<br><input type="checkbox"/> Other: _____                                                                                                                                                       | S W                      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub>                                         | SA7341020          | <input checked="" type="checkbox"/> <2 | 1             |
| Filtered Nutrients              | <input checked="" type="checkbox"/> oP <input type="checkbox"/> Other: _____                                                                                                                                                                                                                                                                                                                                                                        | S W                      | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> .45 um Filter                                                          | exp. 12/18         |                                        | 1             |
| Unpreserved Nutrients           | <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> Other: _____                                                                                                                                                                                                                                                                                    | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Physical/Aggregate Properties   | <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> TS <input checked="" type="checkbox"/> Turbidity <input checked="" type="checkbox"/> Alk <input checked="" type="checkbox"/> Color<br><input type="checkbox"/> Other: <u>No turb</u>                                                                                                                                                                             | S W                      | <input checked="" type="checkbox"/> Ice                                                                                                            |                    |                                        | 1             |
| Chlorophyll                     | <input checked="" type="checkbox"/> CHL-PPTN-W                                                                                                                                                                                                                                                                                                                                                                                                      | S W                      | <input checked="" type="checkbox"/> Ice                                                                                                            |                    |                                        | 1             |
| BOD                             | <input type="checkbox"/> BOD-INHB <input type="checkbox"/> BOD-UNIN                                                                                                                                                                                                                                                                                                                                                                                 | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Microbiology                    | MF: <input type="checkbox"/> E coli <input type="checkbox"/> T Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enteroc <input type="checkbox"/> F Strep                                                                                                                                                                                                                                                                               | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Macroinvertebrates              | <input type="checkbox"/> MI-FW-QLDC <input type="checkbox"/> MI-FW-QLBR <input type="checkbox"/> MI-FW-QNCC<br><input type="checkbox"/> MI-MN-QNCC                                                                                                                                                                                                                                                                                                  | W                        | <input type="checkbox"/> Formalin                                                                                                                  |                    |                                        |               |
| Phytoplankton                   | <input checked="" type="checkbox"/> PKD-QN-C <input checked="" type="checkbox"/> QTY-QN-C                                                                                                                                                                                                                                                                                                                                                           | S W                      | <input type="checkbox"/> Lugol's                                                                                                                   |                    |                                        | 1             |
| Periphyton                      | <input type="checkbox"/> PRN-QL-C <input type="checkbox"/> DTM-QL-C <input type="checkbox"/> PRN-QN-C <input type="checkbox"/> DTM-QN-C                                                                                                                                                                                                                                                                                                             | W                        | <input type="checkbox"/> Formalin                                                                                                                  |                    |                                        |               |
| AGP                             | <input type="checkbox"/> AA-AGP <input type="checkbox"/> AA-LIM-NUT                                                                                                                                                                                                                                                                                                                                                                                 | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Metals                          | <input checked="" type="checkbox"/> W-ICP <input type="checkbox"/> W-FIAS <input checked="" type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP-Tr                                                                                                                                                                                                                                                                                             | S W                      | <input checked="" type="checkbox"/> HNO <sub>3</sub>                                                                                               | NA 7341010         | <input checked="" type="checkbox"/> <2 | 1             |
| Filtered Metals                 | <input type="checkbox"/> W-ICP-F <input type="checkbox"/> W-FIAS-F <input type="checkbox"/> W-ICPMS-F <input type="checkbox"/> W-ICP-Tr-F                                                                                                                                                                                                                                                                                                           | W                        | <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> .45 um Filter                                                                   | exp. 12/18         | <input type="checkbox"/> <2            |               |
| Mercury                         | <input type="checkbox"/> W-HG-AF                                                                                                                                                                                                                                                                                                                                                                                                                    | W                        |                                                                                                                                                    |                    |                                        |               |
| Base/Neutral / Acid Extractable | <input type="checkbox"/> W-BNA <input type="checkbox"/> W-AE <input type="checkbox"/> W-BN <input type="checkbox"/> W-PAH<br><input type="checkbox"/> W-FL-PRO <input type="checkbox"/> W <input type="checkbox"/> Other: _____                                                                                                                                                                                                                     | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Pesticides                      | <input type="checkbox"/> W-PEST-CL <input type="checkbox"/> W-PCB <input type="checkbox"/> W-PEST-NP <input type="checkbox"/> W-PSCL-PCB<br><input type="checkbox"/> W-NP-AA-SF <input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-PSHRB-NP<br><input type="checkbox"/> W-SLFN-UREA <input type="checkbox"/> W-SULFN-LC <input type="checkbox"/> Other: _____<br><input type="checkbox"/> W-ACIDHERB<br><input type="checkbox"/> W-CARB | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| Purgeables                      | <input type="checkbox"/> W-VOC-MS<br><input type="checkbox"/> W-VOC-MS-A                                                                                                                                                                                                                                                                                                                                                                            | W                        | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub><br><input type="checkbox"/> Ice <input type="checkbox"/> MCAA |                    |                                        |               |
| Bioassay                        | Specify Test: _____                                                                                                                                                                                                                                                                                                                                                                                                                                 | W                        | <input type="checkbox"/> Ice                                                                                                                       |                    |                                        |               |
| OTHER                           | <u>W-IR-IC, W-CL-IC, W-F, W-SO<sub>4</sub>IC</u>                                                                                                                                                                                                                                                                                                                                                                                                    | S W                      | <input checked="" type="checkbox"/> Other: <u>Ice</u>                                                                                              |                    |                                        | 1             |

 Notes: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Use one line for each set of sample (as supplied by the laboratory) containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

<sup>A</sup>Enter "S" for surface if collected at a depth less than or equal to 1 foot

<sup>\*</sup>Matrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other: \_\_\_\_\_

<sup>\*\*</sup>PRESERVATIVES: 1 ml added unless otherwise noted

<sup>\*\*\*</sup>Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)

## DEP Bureau of Laboratories Water Sample Collection Record

(Use with FDEP SOP-001/01 Form FD 9000-3 Physical/Chemical Characterization Field Sheet)

SITE NAME: BLANK DATE: 8/22/18 TIME: 1225 (EST) CST DEPTH<sup>A</sup>:      ft m FIELD ID:     

| SAMPLING TEAM MEMBERS | WQ MEASUREMENTS | DOCUMENTATION | SAMPLE COLLECTION | PRESERVATION | PRESERVATION CHECK |
|-----------------------|-----------------|---------------|-------------------|--------------|--------------------|
| Joy Jackson           |                 | ✓             | ✓                 | ✓            | ✓                  |
|                       |                 |               |                   |              |                    |
|                       |                 |               |                   |              |                    |
|                       |                 |               |                   |              |                    |

| SAMPLING EQUIPMENT                                             |                                                                   |
|----------------------------------------------------------------|-------------------------------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container           | <input type="checkbox"/> Tubing type: <u>                    </u> |
| <input type="checkbox"/> Pole                                  | <input type="checkbox"/> Other: <u>                    </u>       |
| <input type="checkbox"/> Pump ID#: <u>                    </u> | <input type="checkbox"/> Other: <u>                    </u>       |
| WATER QUALITY MEASUREMENTS                                     |                                                                   |
| Instrument ID: <u>N/A</u>                                      |                                                                   |
| COLLECTION MODE                                                |                                                                   |
| <input type="checkbox"/> Wading                                | <input type="checkbox"/> Via Boat                                 |
| <input type="checkbox"/> Diving                                | <input type="checkbox"/> Canoe                                    |
| <input type="checkbox"/> From Shore                            | <input type="checkbox"/> Electric Motor                           |
| <input type="checkbox"/> Other                                 | <input type="checkbox"/> Gasoline Motor                           |

N/A - directly from DI water carting

| Parameter Suite                | Parameter(s)/Method                                                                                                                                                                                                          | Matrix Code* | Preservation**                                                                                             | Preservative Lot # | pH Check                               | # Bottles*** |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------|--------------------|----------------------------------------|--------------|
| Preserved Nutrients            | <input checked="" type="checkbox"/> TKN <input checked="" type="checkbox"/> TP <input checked="" type="checkbox"/> NOx <input checked="" type="checkbox"/> NH3 <input type="checkbox"/> TOC <input type="checkbox"/> Total N | S W          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H <sub>2</sub> SO <sub>4</sub> | <u>below</u>       | <input checked="" type="checkbox"/> <2 | 1            |
| Filtered Nutrients             | <input checked="" type="checkbox"/> OP <input type="checkbox"/> Other: <u>                    </u>                                                                                                                           | S W          | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> .45 um Filter                  |                    |                                        | 1            |
| Unpreserved Nutrients          | <input type="checkbox"/> NO <sub>2</sub> <input type="checkbox"/> NO <sub>3</sub> <input type="checkbox"/> SO <sub>4</sub> <input type="checkbox"/> Other: <u>                    </u>                                       | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Physical/Aggregate Properties  | <input type="checkbox"/> TDS <input type="checkbox"/> TSS <input type="checkbox"/> TS <input type="checkbox"/> Turbidity <input type="checkbox"/> Alk <input type="checkbox"/> Color                                         | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Chlorophyll                    | <input checked="" type="checkbox"/> CHL-PPTN-W <u>No data for blank (N/A)</u>                                                                                                                                                | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| BOD                            | <input type="checkbox"/> BOD-INHB <input type="checkbox"/> BOD-UNIN                                                                                                                                                          | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Microbiology                   | MF: <input type="checkbox"/> E coli <input type="checkbox"/> T Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Entero <input type="checkbox"/> F Strep                                                         | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Macroinvertebrates             | <input type="checkbox"/> MI-FW-QLDC <input type="checkbox"/> MI-FW-QLBR <input type="checkbox"/> MI-FW-QNNC                                                                                                                  | W            | <input type="checkbox"/> Formalin                                                                          |                    |                                        |              |
| Phytoplankton                  | <input type="checkbox"/> PKD-QN-C <input type="checkbox"/> DTY-QN-C                                                                                                                                                          | W            | <input type="checkbox"/> Lugol's                                                                           |                    |                                        |              |
| Periphyton                     | <input type="checkbox"/> PRN-QL-C <input type="checkbox"/> DTM-QL-C <input type="checkbox"/> PRN-QN-C <input type="checkbox"/> DTM-QN-C                                                                                      | W            | <input type="checkbox"/> Formalin                                                                          |                    |                                        |              |
| AGP                            | <input type="checkbox"/> AA-AGP <input type="checkbox"/> AA-LIM-NUT                                                                                                                                                          | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Metals                         | <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-FIAS <input checked="" type="checkbox"/> W-ICPMS <input type="checkbox"/> W-ICP-Tr                                                           | S W          | <input checked="" type="checkbox"/> HNO <sub>3</sub>                                                       | <u>below</u>       | <input checked="" type="checkbox"/> <2 | 1            |
| Filtered Metals                | <input type="checkbox"/> W-ICP-F <input type="checkbox"/> W-FIAS-F <input type="checkbox"/> W-ICPMS-F <input type="checkbox"/> W-ICP-Tr-F                                                                                    | W            | <input type="checkbox"/> HNO <sub>3</sub> <input type="checkbox"/> .45 um Filter                           |                    | <input type="checkbox"/> <2            |              |
| Mercury                        | <input type="checkbox"/> W-HG-AF                                                                                                                                                                                             | W            |                                                                                                            |                    |                                        |              |
| BaseNeutral / Acid Extractable | <input type="checkbox"/> W-BNA <input type="checkbox"/> W-AE <input type="checkbox"/> W-BN <input type="checkbox"/> W-PAH                                                                                                    | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
|                                | <input type="checkbox"/> W-FL-PRO <input type="checkbox"/> W <input type="checkbox"/> Other: <u>                    </u>                                                                                                     | W            | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub>                       |                    | <input type="checkbox"/> <2            |              |
|                                | <input type="checkbox"/> W-PEST-CL <input type="checkbox"/> W-PCB <input type="checkbox"/> W-PEST-NP <input type="checkbox"/> W-PSCL-PCB                                                                                     | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| Pesticides                     | <input type="checkbox"/> W-NP-AA-SF <input type="checkbox"/> W-PC-AA-SF <input type="checkbox"/> W-PSHRB-NP                                                                                                                  | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
|                                | <input type="checkbox"/> W-SLFN-UREA <input type="checkbox"/> W-SULFN-LC <input type="checkbox"/> Other: <u>                    </u>                                                                                         | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
|                                | <input type="checkbox"/> W-ACIDHERB                                                                                                                                                                                          | W            | <input type="checkbox"/> Ice <input type="checkbox"/> H <sub>2</sub> SO <sub>4</sub>                       |                    |                                        |              |
|                                | <input type="checkbox"/> W-CARB                                                                                                                                                                                              | W            | <input type="checkbox"/> Ice <input type="checkbox"/> MCAA                                                 |                    |                                        |              |
| Purgeables                     | <input type="checkbox"/> W-VOC-MS                                                                                                                                                                                            | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
|                                | <input type="checkbox"/> W-VOC-MS-A                                                                                                                                                                                          | W            | <input type="checkbox"/> Ice <input type="checkbox"/> HCl                                                  |                    |                                        |              |
| Bioassay                       | Specify Test: <u>                    </u>                                                                                                                                                                                    | W            | <input type="checkbox"/> Ice                                                                               |                    |                                        |              |
| OTHER                          | <u>W-BR-IC, W-CL-IC, W-F, W-SO<sub>4</sub>-IC</u>                                                                                                                                                                            | S W          | <input checked="" type="checkbox"/> Other: <u>ICE</u>                                                      |                    |                                        | 1            |

 Notes: HNO<sub>3</sub> = NA 7341010 exp. 12/7/18

 Contains: 1:1 H<sub>2</sub>SO<sub>4</sub>  
 Lot No. SA7341020  
 Expires: 12/07/18  
 See Safety Data Sheet (SDS)

 Contains: 1:1 H<sub>2</sub>SO<sub>4</sub>  
 Lot No. SA7341020  
 Expires: 12/07/18  
 See Safety Data Sheet (SDS)

Use one line for each set of sample containers. Use separate sheet for field or laboratory duplicate or blank or different water depth

<sup>A</sup>Enter "S" for surface if collected at a depth less than or equal to 1 foot

 \*Matrix Codes (Insert prefix): SW = Surface Water GW = Groundwater DW = Drinking Water WW = Wastewater O = Other:                     

\*\*PRESERVATIVES: 1 ml added unless otherwise noted

\*\*\*Enter number of containers supplied by the laboratory for the test (e.g., 3 for volatile organics, etc.)

## DEP Bureau of Laboratories Water Sample Collection Record

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