



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

## STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes / ☐ No

WIN Station Name: Secret Lake @ Center

Date: 6/13/2022

WIN/Field ID: G2CE0211

WBID: 29941

ENR: -

Latitude: 28.67393

County: SEMINOLE

Org ID: 21FLCEN

Longitude: -81.32841

Receiving Body of Water: -

RQ: 2022-06-13-21

| Sampling Team Members               |                   | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|-------------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Katie March       |                 | x                 |               | x            | x                  |
| <input checked="" type="checkbox"/> | Victoria Schwartz | x               |                   | x             |              |                    |
| <input type="checkbox"/>            |                   |                 |                   |               |              |                    |
| <input type="checkbox"/>            |                   |                 |                   |               |              |                    |

| Sampling Equipment                                   |                                                 |
|------------------------------------------------------|-------------------------------------------------|
| <input checked="" type="checkbox"/> Sample Container | <input type="checkbox"/> Carboy                 |
| <input type="checkbox"/> Dipper                      | <input type="checkbox"/> Van Dorn               |
| <input checked="" type="checkbox"/> Syringe          | <input type="checkbox"/> Pole                   |
| Depth measured with: Secchi                          |                                                 |
| Secchi Equipment ID: Light                           |                                                 |
| Collection Method                                    |                                                 |
| <input type="checkbox"/> Wading                      | <input checked="" type="checkbox"/> Canoe/Kayak |
| <input type="checkbox"/> From Shore                  | <input type="checkbox"/> Electric Motor         |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor         |

|                                                                                                                                                                                                                                                                 |  |       |  |       |  |                        |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|--|-------|--|------------------------|--|--|--|--|--|
| Water Level: <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Low <input type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |  |       |  |       |  | Meter ID# SHRIMP TRAP  |  |  |  |  |  |
| Photos: YES                                                                                                                                                                                                                                                     |  | Flow: |  | Tide: |  | Tide Times: High: Low: |  |  |  |  |  |
| Biological Samples Collected: <input type="checkbox"/> None <input type="checkbox"/> HA <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> Algae ID <input type="checkbox"/> LVS <input checked="" type="checkbox"/> LVI Other: |  |       |  |       |  |                        |  |  |  |  |  |
| SBIO ID Numbers: SBIO: 84488 Macro ID: 12184                                                                                                                                                                                                                    |  |       |  |       |  | LIMS: 2334206          |  |  |  |  |  |
| Notes: SUNNY                                                                                                                                                                                                                                                    |  |       |  |       |  |                        |  |  |  |  |  |

### Duplicate Sample

|                      |       |               |              |
|----------------------|-------|---------------|--------------|
| Time Zone: EST       | Time: | Field ID: N/A | (WIN ID_DUP) |
| WIN DMT Activity ID: |       |               |              |

### Blank

|                         |               |                    |                       |
|-------------------------|---------------|--------------------|-----------------------|
| Time Zone:              | Time:         | Field ID:          | (Blank Type_DDMMYYYY) |
| DI Source:              | Location:     |                    |                       |
| DI Type:                | Equipment ID: |                    |                       |
| DI Container (Name/ID): |               | DI Container Type: |                       |

|                                                                   |                                                         |
|-------------------------------------------------------------------|---------------------------------------------------------|
| LIMS EVENT ID: CEN-DIST-2022-06-14-01                             | WIN Import ID: 34804                                    |
| Enter Field Parameters, Verify Station ID In LIMS DMT: EB 6/29/22 | QC Station ID, Field Parameters In LIMS DMT: KWM 7/8/22 |
| (Initials/Date)                                                   | (Initials/Date)                                         |
| Scan/Save Field Sheets KWM 8/19/22                                | Migrate Data to WIN: KWM 8/19/22                        |
| (Initials/Date)                                                   | (Initials/Date)                                         |
| Verify Data In WIN:                                               |                                                         |
| (Initials/Date)                                                   |                                                         |



RQ-2022-06-13-21  
Customer: CEN-DIST  
Project ID: STRATEGIC MONITORING PLAN

Collected By: Katie March, Victoria Schwartz  
Field Report Prepared By: Katie March  
Sampling Agency: FDEP

| Place Label Here<br><br>WIN ID/Field ID:<br>G2CE0211<br>Location: Secret Lake @ Center |          |                                                                                                                                                                                                       |                                               |                                               |                                               | Comments:                                                                               |                                                   |                                        |                       |                 |
|----------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------|----------------------------------------|-----------------------|-----------------|
| Matrix: Fresh                                                                          |          |                                                                                                                                                                                                       |                                               |                                               |                                               | (Check one) <input checked="" type="checkbox"/> GRAB <input type="checkbox"/> COMPOSITE |                                                   |                                        |                       |                 |
| Date                                                                                   | Time     | DO (mg/L)                                                                                                                                                                                             | DO (%SAT)                                     | Temp. (C°)                                    | pH                                            | Sample Depth (m)                                                                        | Secchi Disk (m)                                   | Total Depth (m)                        | Sp COND (µmhos/cm)    | Salinity (PPTH) |
| 6/13/2022                                                                              | 1033 EST | 8.52                                                                                                                                                                                                  | 113.5                                         | 30.4                                          | 8.02                                          | 0.3                                                                                     | 1.1<br><input type="checkbox"/> VOB (S)           | 3.3                                    | 230.2                 | 0.11            |
|                                                                                        | 1036     | 8.22                                                                                                                                                                                                  | 108.1                                         | 29.7                                          | 7.75                                          | 2.0                                                                                     | Central Lab please use top row for login purposes |                                        | 230.3                 | 0.11            |
|                                                                                        | 1038 EST | 4.93                                                                                                                                                                                                  | 64.1                                          | 29.1                                          | 7.15                                          | 2.8                                                                                     |                                                   |                                        | 228.8                 | 0.11            |
| Parameter Suite                                                                        |          | Parameter Methods                                                                                                                                                                                     |                                               |                                               |                                               | Preservation                                                                            |                                                   | pH Check                               | # Bottles sent to Lab | Bottle Group    |
| Preserved Nutrients (P-500ML)                                                          |          | <input checked="" type="checkbox"/> W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP                                                                                                                       |                                               |                                               |                                               | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4*      |                                                   | <input type="checkbox"/> <2            | 1                     | A               |
|                                                                                        |          | Lot #                                                                                                                                                                                                 | SA130873                                      |                                               | Exp:                                          | 11/17/22                                                                                |                                                   |                                        |                       |                 |
| Metals (P-500ML)                                                                       |          | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD                                                                      |                                               |                                               |                                               | <input checked="" type="checkbox"/> Ice <input type="checkbox"/> HNO3*                  |                                                   | <input checked="" type="checkbox"/> <2 | 1                     | A               |
|                                                                                        |          | Lot #                                                                                                                                                                                                 | NA1286110                                     |                                               | Exp:                                          | 11/16/22                                                                                |                                                   |                                        |                       |                 |
| Filtered Nutrients (P125ML)                                                            |          | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter                                                                                         |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        | 1                     | A               |
|                                                                                        |          | Filter Lot #                                                                                                                                                                                          | 17413308                                      |                                               |                                               | Syringe Lot #                                                                           | 1335260                                           |                                        |                       |                 |
| BOD (BP-1L)                                                                            |          | <input type="checkbox"/> OV-BODUNIN                                                                                                                                                                   |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        |                       |                 |
| Chlorophyll (BP-1L)                                                                    |          | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                        |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        | 1                     | A               |
| Physical/Aggregate (Fresh) (P-1L)                                                      |          | <input checked="" type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS                                                                                       |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        | 1                     | A               |
| Physical/Aggregate (Marine) (P-1L)                                                     |          | <input type="checkbox"/> Alkalinity / W-F / W-TSS / TURBIDITY                                                                                                                                         |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        |                       |                 |
| Macroinvertebrates (PJ-2L)                                                             |          | <input type="checkbox"/> MI-FW-QLDC                                                                                                                                                                   |                                               |                                               |                                               | <input type="checkbox"/> Formalin                                                       |                                                   |                                        |                       |                 |
| Periphyton (PT-50ML)                                                                   |          | <input type="checkbox"/> ALGAE-ID                                                                                                                                                                     |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        |                       |                 |
| Microbiology (Contract Lab Bottle)                                                     |          | <input type="checkbox"/> E Coli <input type="checkbox"/> F Coli <input type="checkbox"/> Enterococci<br><input type="checkbox"/> Contract Lab                                                         |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        |                       |                 |
| Molecular (QPCR-P-500ML)                                                               |          | <input type="checkbox"/> PCR-HF183 <input type="checkbox"/> PCR-BacR <input type="checkbox"/> PCR-DG3<br><input type="checkbox"/> PCR-GULL2 <input type="checkbox"/> PCR-GFD <input type="checkbox"/> |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   |                                        |                       |                 |
| Tracers (BG-500ML)                                                                     |          | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                               |                                               |                                               |                                               | <input type="checkbox"/> Ice                                                            |                                                   | MCAA Exp.                              |                       |                 |
| Pesticides (BG-500ML) (BG-1L)                                                          |          | <input checked="" type="checkbox"/> W-E8321-DI                                                                                                                                                        | <input checked="" type="checkbox"/> WE8321-MS | <input checked="" type="checkbox"/> W-PSNP-TQ |                                               | W-CT-Cl-R                                                                               | <input checked="" type="checkbox"/> Ice           | MCAA Lot#                              | 5                     | A               |
|                                                                                        |          | W-PCL-TQ-R                                                                                                                                                                                            | W-CARB-AA (5 ml of MCAA** Buffer Solution)    |                                               | <input checked="" type="checkbox"/> W-TR-SQ-R |                                                                                         |                                                   |                                        |                       |                 |
|                                                                                        |          | W-PCB-TQ-R                                                                                                                                                                                            |                                               |                                               |                                               |                                                                                         |                                                   |                                        |                       |                 |
| Phytoplankton/Periphyton                                                               |          |                                                                                                                                                                                                       |                                               | DTY-QN-C                                      |                                               | PKD-QN-C                                                                                | <input type="checkbox"/> Ice                      |                                        |                       |                 |
| Name: Katie March<br>Victoria Schwartz                                                 |          |                                                                                                                                                                                                       |                                               | Signature:                                    |                                               |                                                                                         |                                                   |                                        | Date: 06/13/2022      |                 |

\*2.0 ml of Preservative used unless noted otherwise.

\*\*MCAA: Monochloroacetic acid buffer solution

# DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

**SAMPLE ID:** \_\_\_\_\_ **MACROPHYTE ID:** \_\_\_\_\_ **LATITUDE:** 28.67393  
**COUNTY:** Seminole **STORET#:** GACE021 **LONGITUDE:** -81.32841  
**DATE:** 6/13/22 **TIME:** 10:33 **SAMPLING AGENCY:** 212 CEN  
**SITE NAME:** Secret Lake @ Center **WBID:** 29941  
**FIELD ID/NAME:** GACE021 **LAKE SIZE:** \_\_\_\_\_ **RQ:** 2022-06-13-21

## WATERSHED / LAKESIDE FEATURES

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| <b>PREDOMINANT LAND-USE IN WATERSHED</b> (specify relative percent in each category – from GIS) : <u>PARK</u><br>Forest/Natural <input type="checkbox"/> Silviculture <input type="checkbox"/> Field/Pasture <input type="checkbox"/> Agricultural <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other (Specify) <u>50</u>                                                                                                                    |  |  |  | <b>LANDSCAPE DEVELOPMENT INTENSITY</b> (100 m buffer)<br><b>LDI:</b> <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| 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 type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy                                                                                                                                                                  |  |  |  | <b>Artificially Impounded</b><br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                                                                         |  |  |  |
| <b>STORMWATER INPUTS</b><br><u>7</u><br>Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation<br>20 19 18 17 16<br>Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place<br>15 14 13 12 11<br>Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place<br>10 9 8 7 6<br>Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place<br>5 4 3 2 1 |  |  |  | <b>LAKESIDE ALTERATIONS</b><br><u>9</u><br>Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)<br>20 19 18 17 16<br>Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)<br>15 14 13 12 11<br>Many structures, roads or other human disturbance visible (50%-70% lakeside affected)<br>10 9 8 7 6<br>Highly developed or disturbed (>70% of lakeside affected)<br>5 4 3 2 1 |  |  |  |
| <b>BUFFER ZONE</b><br><u>11</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<br>89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer<br>15 14 13 12 11<br>50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer<br>10 9 8 7 6<br>< 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"/> No pH<2 <input type="checkbox"/> No<br>Color Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Lot # <u>SA130873</u> Exp. Date: <u>1/17/22</u><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 _____                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |  |
| <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>0.3</u> <u>30.4</u> <u>8.02</u> <u>8.52</u> <u>113.5</u> <u>230.2</u> <u>0.11</u><br>Mid-Depth: <u>2.0</u> <u>29.7</u> <u>7.75</u> <u>8.22</u> <u>108.1</u> <u>230.3</u> <u>0.11</u><br>Bottom: <u>2.8</u> <u>29.1</u> <u>7.15</u> <u>4.93</u> <u>64.1</u> <u>228.8</u> <u>0.11</u>                                                                                                                                                                              |  |  |  | <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 ID:</b> <u>Shrimp Trap</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  | <b>Clarity:</b> <input type="checkbox"/> Clear <input type="checkbox"/> Opaque <input type="checkbox"/> Turbid <input checked="" type="checkbox"/> Slightly Turbid<br><b>Color:</b> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Tannic <input checked="" type="checkbox"/> Green <u>15</u>                                                                                                                                                                                                                                                                        |  |  |  |
| <b>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input type="checkbox"/> Organic fibrous (peaty, CPOM) <input type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                            |  |  |  | <b>SECCHI (M)</b> <u>1.1</u> <b>Total Station Depth (M)</b> <u>3.3</u><br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |  |  |  |
| <b>Sediment Type:</b> (may check more than one)<br><input type="checkbox"/> Sandy <input type="checkbox"/> Organic fibrous (peaty, CPOM) <input type="checkbox"/> Vegetated<br><input type="checkbox"/> Sand/Silt <input type="checkbox"/> Organic smooth (muck) <input type="checkbox"/> Other (Specify): _____                                                                                                                                                                                                                                                                            |  |  |  | <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No<br>Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No<br>Lot #: _____ Exp Date: _____<br>Algal Bloom/Algal ID Sample Taken? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/><br>Active Vegetation Mgmt? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Don't Know          |  |  |  | <b>Abundance:</b><br>Absent Rare Common Abundant<br>Periphyton <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Nuisance Plants <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/><br>Submersed Plants <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Exotic Apple Snails <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> |  |  |  |
| <b>Weather Conditions:</b> <u>Sunny</u><br><u>Secret Lake park under construction Jan. 2022 - Aug. 2022 (via website)</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  | <b>Additional Notes:</b><br><u>- Native + invasive apple snails</u><br><u>* Future throws were all made of algae!</u><br><u>- Park next to lake undergoing construction</u>                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |  |
| <b>SAMPLING TEAM:</b> <u>Katie Marsh/Victoria Schwarz</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |  | <b>SIGNATURE:</b> <u>[Signature]</u> <b>DATE:</b> <u>6/13/22</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |  |  |

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

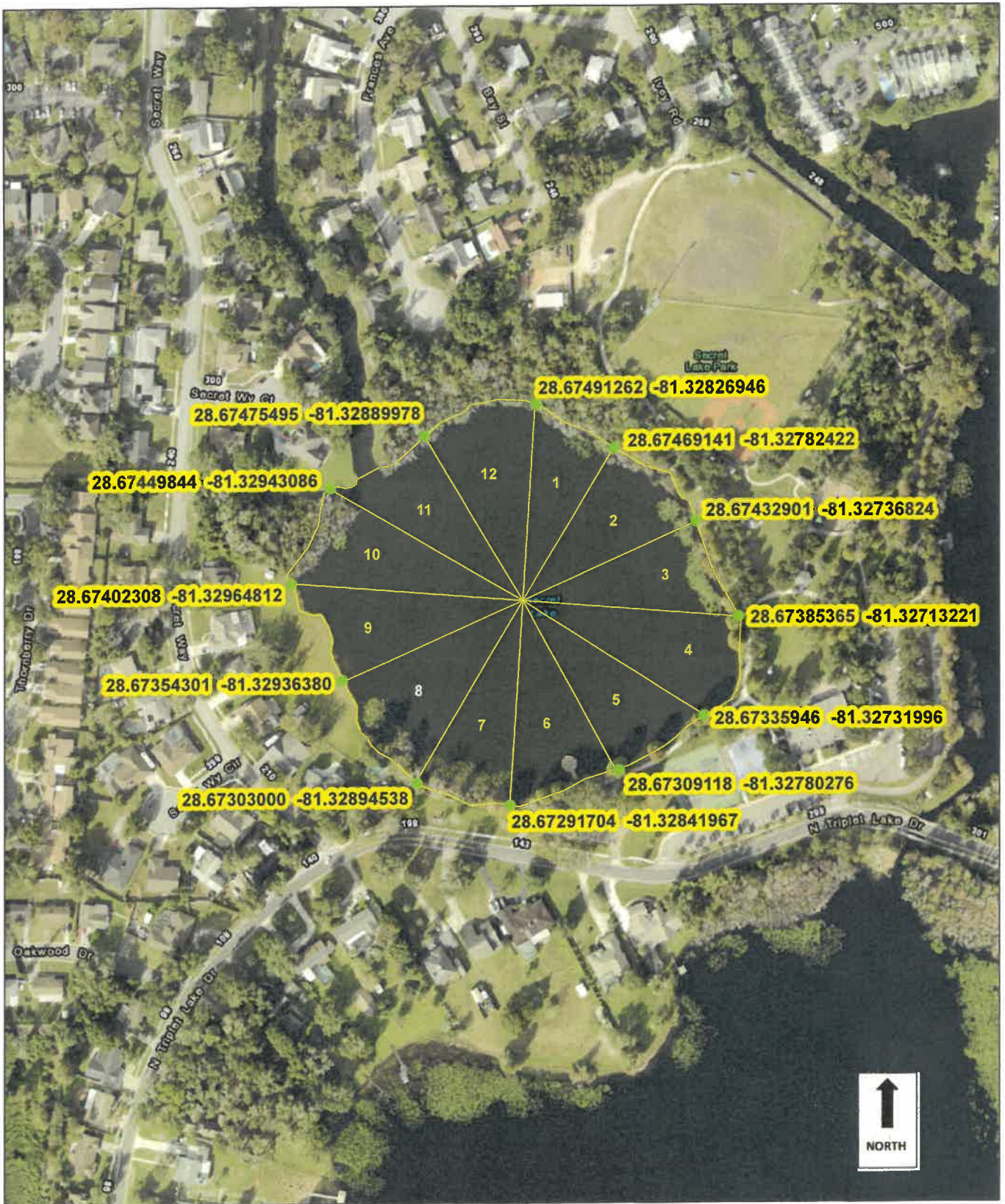
| Waterbody: <u>Secret Lake</u>                                                                                                                                                                                                                                                                                                          |   | County: <u>Seminole</u>                     |   | Date: <u>6/13/22</u>                                                                                      |                |                                                |   |   |   |    |                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------|---|-----------------------------------------------------------------------------------------------------------|----------------|------------------------------------------------|---|---|---|----|----------------|
| Analyst: <u>Katie March/Victoria Schwartz</u>                                                                                                                                                                                                                                                                                          |   | Signature: <u>K March/Victoria Schwartz</u> |   | STORET: <u>G2CE0211</u>                                                                                   |                |                                                |   |   |   |    |                |
| <p>Except where noted as "sp." species level identification required. *Genera that may require lab verification*</p> <p>Plants in bold = FLEPPC invasive exotic.</p> <p>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.</p> |   |                                             |   | <p>Lake units sampled (circle one group):</p> <p>1, 4, 7, 10    <u>2, 5, 8, 11</u></p> <p>3, 6, 9, 12</p> |                |                                                |   |   |   |    |                |
| SPECIES                                                                                                                                                                                                                                                                                                                                | 2 | 5                                           | 8 | 11                                                                                                        | Collected? (✓) | SPECIES                                        | 2 | 5 | 8 | 11 | Collected? (✓) |
| Acer rubrum                                                                                                                                                                                                                                                                                                                            |   |                                             |   |                                                                                                           |                | Fuirena scirpoides                             |   |   |   |    |                |
| <b>Alternanthera philoxeroides</b>                                                                                                                                                                                                                                                                                                     |   |                                             |   |                                                                                                           |                | Gordonia lasianthus                            |   |   |   |    |                |
| Amaranthus australis                                                                                                                                                                                                                                                                                                                   |   |                                             |   |                                                                                                           |                | Habenaria repens                               |   |   |   |    |                |
| Andropogon sp.                                                                                                                                                                                                                                                                                                                         |   |                                             |   |                                                                                                           |                | Hibiscus coccineus                             |   |   |   |    |                |
| Azolla filiculoides (A. caroliniana)                                                                                                                                                                                                                                                                                                   |   |                                             |   |                                                                                                           |                | Hibiscus grandiflora                           |   |   |   |    |                |
| Baccharis sp.                                                                                                                                                                                                                                                                                                                          |   |                                             |   |                                                                                                           |                | <b>Hydrilla verticillata</b>                   |   |   |   |    |                |
| Bacopa caroliniana                                                                                                                                                                                                                                                                                                                     |   |                                             |   |                                                                                                           |                | Hydrocotyle sp.                                |   |   |   |    |                |
| Bacopa monnieri                                                                                                                                                                                                                                                                                                                        |   |                                             |   |                                                                                                           |                | <b>Hygrophila polysperma</b>                   |   |   |   |    |                |
| Bidens alba                                                                                                                                                                                                                                                                                                                            |   |                                             |   |                                                                                                           |                | Hymenocallis sp.                               |   |   |   |    |                |
| Bidens laevis                                                                                                                                                                                                                                                                                                                          |   |                                             |   |                                                                                                           |                | *Hypericum fasciculatum                        |   |   |   |    |                |
| Bidens mitis                                                                                                                                                                                                                                                                                                                           |   |                                             |   |                                                                                                           |                | *Hypericum hypericoides                        |   |   |   |    |                |
| Blechnum serrulatum                                                                                                                                                                                                                                                                                                                    |   |                                             |   |                                                                                                           |                | *Hypericum myrtifolium                         |   |   |   |    |                |
| Boehmeria cylindrica                                                                                                                                                                                                                                                                                                                   |   |                                             |   |                                                                                                           |                | Ilex cassine                                   |   |   |   |    |                |
| Brasenia schreberi                                                                                                                                                                                                                                                                                                                     |   |                                             |   |                                                                                                           |                | <b>Ipomoea aquatica</b>                        |   |   |   |    |                |
| Cabomba caroliniana                                                                                                                                                                                                                                                                                                                    |   |                                             |   |                                                                                                           |                | Ipomoea sagittata                              |   |   |   |    |                |
| Canna                                                                                                                                                                                                                                                                                                                                  |   |                                             |   |                                                                                                           |                | Itea virginica                                 |   |   |   |    |                |
| Centella asiatica                                                                                                                                                                                                                                                                                                                      |   |                                             |   |                                                                                                           |                | Juncus effusus                                 |   |   |   |    |                |
| Cephalanthus occidentalis                                                                                                                                                                                                                                                                                                              |   |                                             |   |                                                                                                           |                | *Juncus marginatus                             |   |   |   |    |                |
| Ceratophyllum demersum                                                                                                                                                                                                                                                                                                                 |   |                                             |   |                                                                                                           |                | *Juncus megacephalus                           |   |   |   |    |                |
| Chara sp.                                                                                                                                                                                                                                                                                                                              |   |                                             |   |                                                                                                           |                | Juncus repens                                  |   |   |   |    |                |
| Cladium jamaicense                                                                                                                                                                                                                                                                                                                     |   |                                             |   |                                                                                                           |                | *Juncus scirpoides                             |   |   |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                                                                                                                                                                                             |   |                                             |   |                                                                                                           |                | Lachnanthes caroliniana                        |   |   |   |    |                |
| *Commelina                                                                                                                                                                                                                                                                                                                             |   |                                             |   |                                                                                                           |                | Leersia hexandra                               |   |   |   |    |                |
| Crinum americanum                                                                                                                                                                                                                                                                                                                      |   |                                             |   |                                                                                                           |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| <b>*Cyperus alternifolius (C. involucratus)</b>                                                                                                                                                                                                                                                                                        |   |                                             |   |                                                                                                           |                | Lemna sp.                                      |   |   |   |    |                |
| Cyperus articulatus                                                                                                                                                                                                                                                                                                                    |   |                                             |   |                                                                                                           |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| Cyperus haspan                                                                                                                                                                                                                                                                                                                         |   |                                             |   |                                                                                                           |                | Limnium spongia                                |   |   |   |    |                |
| *Cyperus lecontei                                                                                                                                                                                                                                                                                                                      |   |                                             |   |                                                                                                           |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| *Cyperus polystachyos                                                                                                                                                                                                                                                                                                                  |   |                                             |   |                                                                                                           |                | Liquidambar styraciflua                        |   |   |   |    |                |
| *Cyperus odoratus                                                                                                                                                                                                                                                                                                                      |   |                                             |   |                                                                                                           |                | *Ludwigia arcuata                              |   |   |   |    |                |
| *Cyperus surinamensis                                                                                                                                                                                                                                                                                                                  |   |                                             |   |                                                                                                           |                | *Ludwigia grandiflora                          |   |   |   |    |                |
| Cyrtia racemiflora                                                                                                                                                                                                                                                                                                                     |   |                                             |   |                                                                                                           |                | *Ludwigia hexapetala                           |   |   |   |    |                |
| Decodon verticillatus                                                                                                                                                                                                                                                                                                                  |   |                                             |   |                                                                                                           |                | *Ludwigia leptocarpa                           |   |   |   |    |                |
| Diodia virginiana                                                                                                                                                                                                                                                                                                                      |   |                                             |   |                                                                                                           |                | Ludwigia (native)                              |   |   |   |    |                |
| *Echinochloa crus-galli                                                                                                                                                                                                                                                                                                                |   |                                             |   |                                                                                                           |                | *Ludwigia octovalvis                           |   |   |   |    |                |
| *Echinochloa muricatum                                                                                                                                                                                                                                                                                                                 |   |                                             |   |                                                                                                           |                | <b>*Ludwigia peruviana</b>                     |   |   |   |    |                |
| Echinochloa walteri                                                                                                                                                                                                                                                                                                                    |   |                                             |   |                                                                                                           |                | *Ludwigia repens                               |   |   |   |    |                |
| Eclipta prostrata (E. alba)                                                                                                                                                                                                                                                                                                            |   |                                             |   |                                                                                                           |                | Ludwigia suffruticosa                          |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                                                                                                                                                                                                                                                                                                            |   |                                             |   |                                                                                                           |                | Luziola fluitans (Hydrochloa carolinensis)     |   |   |   |    |                |
| *Eleocharis                                                                                                                                                                                                                                                                                                                            |   |                                             |   |                                                                                                           |                | Magnolia virginiana                            |   |   |   |    |                |
| Eleocharis cellulosa                                                                                                                                                                                                                                                                                                                   |   |                                             |   |                                                                                                           |                | Mayaca fluviatilis                             |   |   |   |    |                |
| *Eleocharis elongata                                                                                                                                                                                                                                                                                                                   |   |                                             |   |                                                                                                           |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| Eleocharis equisetoides                                                                                                                                                                                                                                                                                                                |   |                                             |   |                                                                                                           |                | Micranthemum glomeratum                        |   |   |   |    |                |
| Eleocharis interstincta                                                                                                                                                                                                                                                                                                                |   |                                             |   |                                                                                                           |                | Micranthemum umbrosum                          |   |   |   |    |                |
| Eleocharis submersed viviparous                                                                                                                                                                                                                                                                                                        |   |                                             |   |                                                                                                           |                | Mikania scandens                               |   |   |   |    |                |
| *Eriocaulon compressum                                                                                                                                                                                                                                                                                                                 |   |                                             |   |                                                                                                           |                | <b>Mimosa pigra</b>                            |   |   |   |    |                |
| *Eriocaulon decangulare                                                                                                                                                                                                                                                                                                                |   |                                             |   |                                                                                                           |                | Myrica cerifera                                |   |   |   |    |                |
| Eupatorium capillifolium                                                                                                                                                                                                                                                                                                               |   |                                             |   |                                                                                                           |                | <u>Magnolia grandiflora</u>                    |   |   |   |    |                |
| Fraxinus                                                                                                                                                                                                                                                                                                                               |   |                                             |   |                                                                                                           |                | <u>No dominant sec. 5</u>                      |   |   |   |    |                |

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

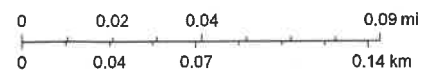
| Site: <i>Secret Lake</i>                               |   |   |   |    | Date: <i>6/13/22</i> |                                                           |   |   |   |    |                |
|--------------------------------------------------------|---|---|---|----|----------------------|-----------------------------------------------------------|---|---|---|----|----------------|
| SPECIES                                                | 2 | 5 | 8 | 11 | Collected? (✓)       | SPECIES                                                   | 2 | 5 | 8 | 11 | Collected? (✓) |
| <b>Myriophyllum aquaticum</b>                          |   |   |   |    |                      | <i>Salix caroliniana</i>                                  |   |   |   |    |                |
| * <b>Myriophyllum heterophyllum</b>                    |   |   |   |    |                      | <b>Salvinia minima</b>                                    |   |   |   |    |                |
| * <b>Myriophyllum laxum</b>                            |   |   |   |    |                      | <i>Sambucus canadensis</i>                                |   |   |   |    |                |
| * <b>Myriophyllum pinnatum</b>                         |   |   |   |    |                      | <b>Sapium sebiferum</b>                                   |   |   |   |    |                |
| <b>Myriophyllum spicatum</b>                           |   |   |   |    |                      | <i>Saururus cernuus</i>                                   |   |   |   |    |                |
| * <b>Najas filifolia</b>                               |   |   |   |    |                      | <b>Schinus terebinthifolius</b>                           |   |   |   |    |                |
| * <b>Najas guadalupensis</b>                           |   |   |   |    |                      | * <b>Schoenoplectus californicus</b>                      |   |   |   |    |                |
| * <b>Najas minor</b>                                   |   |   |   |    |                      | * <b>Schoenoplectus pungens</b>                           |   |   |   |    |                |
| <i>Nelumbo lutea</i>                                   |   |   |   |    |                      | * <b>Schoenoplectus tabernaemontani (Scirpus validus)</b> |   |   |   |    |                |
| <i>Nitella spp.</i>                                    |   |   |   |    |                      | <i>Scirpus cubensis (Oxycaryon cubense)</i>               |   |   |   |    |                |
| <i>Nuphar sp.</i>                                      |   |   |   |    |                      | <i>Scirpus cyperinus</i>                                  |   |   |   |    |                |
| <i>Nymphaea mexicana</i>                               |   |   |   |    |                      | * <b>Sesbania</b>                                         |   |   |   |    |                |
| <i>Nymphaea odorata</i>                                |   |   |   |    |                      | <i>Solidago sp.</i>                                       |   |   |   |    |                |
| <i>Nymphoides aquatica</i>                             |   |   |   |    |                      | <i>Sparganium americanum</i>                              |   |   |   |    |                |
| <i>Nyssa sylvatica var. biflora</i>                    |   |   |   |    |                      | <i>Spartina bakeri</i>                                    |   |   |   |    |                |
| <i>Orontium aquaticum</i>                              |   |   |   |    |                      | <i>Spirodela polyrhiza</i>                                |   |   |   |    |                |
| <i>Osmunda cinnamomea</i>                              |   |   |   |    |                      | <i>Taxodium sp.</i>                                       |   |   |   |    |                |
| <i>Osmunda regalis</i>                                 |   |   |   |    |                      | <i>Thalia geniculata</i>                                  |   |   |   |    |                |
| <i>Panicum hemitomon</i>                               |   |   |   |    |                      | <i>Thelypteris interrupta</i>                             |   |   |   |    |                |
| <b>Panicum repens</b>                                  |   |   |   |    |                      | <i>Thelypteris palustris</i>                              |   |   |   |    |                |
| <i>Paspalidium geminatum</i>                           |   |   |   |    |                      | <i>Triadenum virginicum</i>                               |   |   |   |    |                |
| * <b>Paspalum repens</b>                               |   |   |   |    |                      | <i>Typha sp.</i>                                          |   |   |   |    |                |
| <i>Paspalum urvillei</i>                               |   |   |   |    |                      | <b>Urochloa mutica (Brachiaria mutica)</b>                |   |   |   |    |                |
| <i>Peltandra sp.</i>                                   |   |   |   |    |                      | * <b>Utricularia foliosa</b>                              |   |   |   |    |                |
| <i>Persea sp.</i>                                      |   |   |   |    |                      | * <b>Utricularia gibba (U. biflora)</b>                   |   |   |   |    |                |
| <b>Pennisetum purpureum</b>                            |   |   |   |    |                      | * <b>Utricularia inflata</b>                              |   |   |   |    |                |
| <i>Phragmites australis</i>                            |   |   |   |    |                      | * <b>Utricularia purpurea</b>                             |   |   |   |    |                |
| <i>Pinus elliotii</i>                                  |   |   |   |    |                      | * <b>Utricularia radiata</b>                              |   |   |   |    |                |
| <b>Pistia stratioides</b>                              |   |   |   |    |                      | * <b>Utricularia resupinata</b>                           |   |   |   |    |                |
| <i>Pluchea sp.</i>                                     |   |   |   |    |                      | <i>Vallisneria americana</i>                              |   |   |   |    |                |
| * <b>Polygonum glabrum (densiflorum)</b>               |   |   |   |    |                      | <i>Vigna luteola</i>                                      |   |   |   |    |                |
| <i>Polygonum hirsutum</i>                              |   |   |   |    |                      | <i>Vitis sp.</i>                                          |   |   |   |    |                |
| * <b>Polygonum hydropiperoides</b>                     |   |   |   |    |                      | * <b>Websteria confervoides</b>                           |   |   |   |    |                |
| * <b>Polygonum punctatum</b>                           |   |   |   |    |                      | <b>Wedelia trilobata (Sphagneticola trilobata)</b>        |   |   |   |    |                |
| * <b>Polygonum</b>                                     |   |   |   |    |                      | <i>Wolffiella spp.</i>                                    |   |   |   |    |                |
| <i>Pontederia cordata</i>                              |   |   |   |    |                      | <i>Woodwardia virginica</i>                               |   |   |   |    |                |
| * <b>Potamogeton diversifolius</b>                     |   |   |   |    |                      | <i>Xyris sp.</i>                                          |   |   |   |    |                |
| * <b>Potamogeton illinoensis</b>                       |   |   |   |    |                      | <i>Zizania aquatica</i>                                   |   |   |   |    |                |
| * <b>Potamogeton pusillus</b>                          |   |   |   |    |                      | <i>Zizaniopsis milacea</i>                                |   |   |   |    |                |
| * <b>Potamogeton pectinatus (Stuckenia pectinatus)</b> |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Proserpinaca pectinata</i>                          |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Rhexia</b>                                        |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Rhynchospora corniculata</b>                      |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Rhynchospora inundata</b>                         |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Rhynchospora nitens</i>                             |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Ricciocarpus natans</i>                             |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Sabal palmetto</i>                                  |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Sacciolepis striata</i>                             |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Sagittaria filiformis</b>                         |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Sagittaria graminea</b>                           |   |   |   |    |                      |                                                           |   |   |   |    |                |
| * <b>Sagittaria isoetiformis</b>                       |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Sagittaria lancifolia</i>                           |   |   |   |    |                      |                                                           |   |   |   |    |                |
| <i>Sagittaria latifolia</i>                            |   |   |   |    |                      |                                                           |   |   |   |    |                |

# LVI MAP FOR WBID 2994I SECRET LAKE

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1:2,257



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