



# FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End  
of Day CCV  
☒ Yes / ☐ No

WIN Station Name: Gum Lake @ Center

Date: 10/26/2020

WIN/Field ID: G3CE0033

WBID: 1488C1

ENR:

Latitude: 28.1325

County: POLK

Org ID: 21FLCEN

Longitude: -81.7292

Receiving Body of Water: Sarasota Bay - Peace - Myakka

RQ: 2020-10-26-51

| Sampling Team Members               |                   | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|-------------------------------------|-------------------|-----------------|-------------------|---------------|--------------|--------------------|
| <input checked="" type="checkbox"/> | Natalie Ayala     |                 | 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: Meter                           |                                                    |
| Secchi Equipment ID:                                 |                                                    |
| Collection Method                                    |                                                    |
| <input type="checkbox"/> Wading                      | <input type="checkbox"/> Canoe/Kayak               |
| <input type="checkbox"/> From Shore                  | <input checked="" type="checkbox"/> Electric Motor |
| <input type="checkbox"/> Other                       | <input type="checkbox"/> Gasoline Motor            |

|                                                                                                                                                                                                                                                                 |  |          |  |       |  |                        |  |  |  |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------|--|-------|--|------------------------|--|--|--|--|--|
| Water Level: <input type="checkbox"/> Normal <input type="checkbox"/> Low <input checked="" type="checkbox"/> High <input type="checkbox"/> Dry <input type="checkbox"/> Pooled <input type="checkbox"/> Flooded                                                |  |          |  |       |  | Meter ID# CRAW DADDY   |  |  |  |  |  |
| Photos: YES                                                                                                                                                                                                                                                     |  | Flow: NA |  | 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 81670 MACROPHYTE 11739                                                                                                                                                                                                                    |  |          |  |       |  | LIMS 2204883           |  |  |  |  |  |
| Notes:<br>TOTAL DEPTH ESTIMATED (J)                                                                                                                                                                                                                             |  |          |  |       |  |                        |  |  |  |  |  |

## Duplicate Sample

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

## Blank

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

LIMS EVENT ID: CEN-DIST-2020-10-27-04

WIN Import ID: 22978

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 11/23/20

QC Station ID, Field Parameters In LIMS DMT: TR 12/1/2020

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets KWM 12/2/20

(Initials/Date)

Migrate Data to WIN: KWM 12/2/20

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2020-10-26-51

Customer: WQAP

Project ID: SMP

Collected By: Natalie Ayala, Victoria Schwartz

Field Report Prepared By: Natalie Ayala

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G3CE0033

Location: Gum Lake @ Center

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ 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) |
|------------|--------------|-----------|-----------|------------|------|------------------|-----------------------------------------|-----------------|--------------------|-----------------|
| 10/26/2020 | 13:10<br>EST | 7.06      | 89.7      | 27.6       | 7.33 | 0.307            | 0.7<br><input type="checkbox"/> VOB (S) | 3.5 (J)         | 256.5              | 0.12            |

Central Lab please use top row for login purposes

|  |              |      |      |      |      |       |  |  |       |      |
|--|--------------|------|------|------|------|-------|--|--|-------|------|
|  | 13:33<br>EST | 6.35 | 78.6 | 26.3 | 7.31 | 3.006 |  |  | 255.9 | 0.12 |
|--|--------------|------|------|------|------|-------|--|--|-------|------|

| 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<br>Lot # SA0038110 Exp: 02/07/21                                                                                                                                         | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> H2SO4* | <input checked="" type="checkbox"/> <2 | 1                     | A            |
| Metals (P-500ML)                   | <input checked="" type="checkbox"/> W-ICPMS <input checked="" type="checkbox"/> W-ICP <input checked="" type="checkbox"/> W-HARD<br>Lot # NA9301040 Exp: 10/28/20                                                                                        | <input checked="" type="checkbox"/> Ice <input checked="" type="checkbox"/> HNO3*  | <input checked="" type="checkbox"/> <2 | 1                     | A            |
| Filtered Nutrients (P125ML)        | <input checked="" type="checkbox"/> W-PO4-F <input checked="" type="checkbox"/> Field Filtered 0.45 µm Filter<br>Filter Lot # 16930280<br>Syringe Lot # 9149785                                                                                          | <input checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Chlorophyll (BP-1L)                | <input checked="" type="checkbox"/> CHLSUITE-W                                                                                                                                                                                                           | <input checked="" 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 checked="" type="checkbox"/> Ice                                            |                                        | 1                     | A            |
| Physical/Aggregate (Marine) (P-1L) | <input type="checkbox"/> Alkalinity / W-BR-IC / 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"/> Ice                                                       |                                        |                       |              |
| Tracers (BG-500ML)                 | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> W-E8321-MS                                                                                                                                                                                  | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
| Pesticides (BG-500ML) (BG-1L)      | <input type="checkbox"/> W-E8321-DI <input type="checkbox"/> WE8321-MS <input type="checkbox"/> W-PSNP-TQ <input type="checkbox"/> W-CT-CL-R<br><input type="checkbox"/> W-PCL-SQ-R <input type="checkbox"/> W-CARB-AA ( 5 ml of MCAA** Buffer Solution) | <input type="checkbox"/> Ice                                                       |                                        |                       |              |
|                                    |                                                                                                                                                                                                                                                          | <input type="checkbox"/> Ice                                                       |                                        |                       |              |

Name:  
Natalie Ayala  
Victoria Schwartz

Signature:

Victoria Schwartz

Date:

10/26/2020

\*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:** 28.132491  
**COUNTY:** Polk **STORET #:** \_\_\_\_\_ **LONGITUDE:** -81.729172  
**DATE:** 10/26/20 **TIME:** 13:10 **SAMPLING AGENCY:** 21FLCEN  
**SITE NAME:** Gum Lake **WBID:** 1488C1  
**FIELD ID/NAME:** G3CE0033 **LAKE SIZE:** 0.26579 **RQ:** 2020-10-26-51  
59. miles

## WATERSHED / LAKESIDE FEATURES

| PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category - from GIS):                                                                                       |              |                                                                                                           |              |             |            |                                                                                                    |                 |                                                                     |  | LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)                                                             |                         |  |  |                                                                                                                   |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------|--------------|-------------|------------|----------------------------------------------------------------------------------------------------|-----------------|---------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------|-------------------------|--|--|-------------------------------------------------------------------------------------------------------------------|--|--|--|
| Forest/Natural                                                                                                                                                                  | Silviculture | Field/Pasture                                                                                             | Agricultural | Residential | Commercial | Industrial                                                                                         | Other (Specify) |                                                                     |  |                                                                                                            |                         |  |  |                                                                                                                   |  |  |  |
| <u>30</u>                                                                                                                                                                       |              | <u>20</u>                                                                                                 |              | <u>50</u>   |            |                                                                                                    |                 |                                                                     |  |                                                                                                            |                         |  |  |                                                                                                                   |  |  |  |
| Local Watershed Erosion (select one): <input type="checkbox"/> None <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Heavy |              |                                                                                                           |              |             |            |                                                                                                    |                 | Artificially Impounded                                              |  |                                                                                                            | Land Use Source & Year: |  |  |                                                                                                                   |  |  |  |
| Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy            |              |                                                                                                           |              |             |            |                                                                                                    |                 | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |  |                                                                                                            |                         |  |  |                                                                                                                   |  |  |  |
| STORMWATER INPUTS                                                                                                                                                               |              | Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation                     |              |             |            | Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place |                 |                                                                     |  | Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place |                         |  |  | Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place |  |  |  |
| <u>14</u>                                                                                                                                                                       |              | 20 19 18 17 16                                                                                            |              |             |            | 15 <u>14</u> 13 12 11                                                                              |                 |                                                                     |  | 10 9 8 7 6                                                                                                 |                         |  |  | 5 4 3 2 1                                                                                                         |  |  |  |
| LAKESIDE ALTERATIONS                                                                                                                                                            |              | Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected)       |              |             |            | Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected)              |                 |                                                                     |  | Many structures, roads or other human disturbance visible (50%-70% lakeside affected)                      |                         |  |  | Highly developed or disturbed (>70% of lakeside affected)                                                         |  |  |  |
| <u>12</u>                                                                                                                                                                       |              | 20 19 18 17 16                                                                                            |              |             |            | 15 14 13 <u>12</u> 11                                                                              |                 |                                                                     |  | 10 9 8 7 6                                                                                                 |                         |  |  | 5 4 3 2 1                                                                                                         |  |  |  |
| BUFFER ZONE                                                                                                                                                                     |              | Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer |              |             |            | 89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer                               |                 |                                                                     |  | 50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer                                    |                         |  |  | < 29% of shoreline with >18m buffer                                                                               |  |  |  |
| <u>14</u>                                                                                                                                                                       |              | 20 19 18 17 16                                                                                            |              |             |            | 15 <u>14</u> 13 12 11                                                                              |                 |                                                                     |  | 10 9 8 7 6                                                                                                 |                         |  |  | 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>SA0038110</u> Exp. Date: <u>02/07/21</u><br>Alkalinity Sample Taken? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br>Water Level <input type="checkbox"/> Low <input type="checkbox"/> Normal <input checked="" 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>Top: <u>0.307</u> <u>27.6</u> <u>7.33</u> <u>7.06</u> <u>81.7</u> <u>256.5</u> <u>0.12</u><br>Mid-Depth: _____<br>Bottom: <u>3.006</u> <u>26.3</u> <u>7.31</u> <u>6.35</u> <u>78.6</u> <u>255.9</u> <u>0.12</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>Crow Dredge</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |  |  |  |  |  |  | <b>Clarity:</b> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Turbid <input checked="" type="checkbox"/> Slightly Turbid<br><b>Color:</b> <input type="checkbox"/> Clear <input checked="" type="checkbox"/> Tannic <input type="checkbox"/> Green                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  |
| <b>Sediment Type:</b> (may check more than one) <u>N/A</u><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>0.7</u> <b>Total Station Depth (M)</b> <u>3.5</u> (J)<br><b>VOB</b> <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |  |  |  |  |  |
| <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 #: <u>N/A</u> Exp Date: <u>N/A</u><br>Algal Bloom/Algal ID Sample Taken? Yes <input checked="" type="checkbox"/> No<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 checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Nuisance Plants <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/><br>Submersed Plants <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/><br>Exotic Apple Snails <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |  |  |  |  |  |  |  |
| <b>Weather Conditions:</b> <u>hot/sunny</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |  |  |  |  |  | <b>Sediment Odors:</b> <u>N/A</u><br><input type="checkbox"/> Normal <input type="checkbox"/> Other (Specify): _____<br><input type="checkbox"/> Anaerobic                                                                                                                                                                                                                                                                                                                                                                                                                               |  |  |  |  |  |  |  |
| <b>Additional Notes:</b><br><u>Resident commented water levels had recently been high</u><br><u>Signs of some possible herbicide use by lakeside residents</u>                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |  |  |  |  |  |  | <b>SAMPLING TEAM:</b> <u>Natalie Ayala / Victoria Shultz</u> <b>SIGNATURE:</b> <u>[Signature]</u> <b>DATE:</b> <u>10/26/20</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |  |  |  |  |  |  |

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

| Waterbody: <u>Gum Lake</u>                                                                                                                                 |   | County: <u>POIK</u>           |   | Date: <u>10/26/20</u>                                                                   |                |                                                |   |   |   |    |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------|---|-----------------------------------------------------------------------------------------|----------------|------------------------------------------------|---|---|---|----|----------------|
| Analyst: <u>Natalie Ayala / Victoria Schwartz</u>                                                                                                          |   | Signature: <u>[Signature]</u> |   | STORET:                                                                                 |                |                                                |   |   |   |    |                |
| Except where noted as "sp." species level identification required. *Genera that may require lab verification*<br>Plants in bold = FLEPPC invasive exotic.  |   |                               |   | Lake units sampled (circle one group):<br><u>1, 4, 7, 10</u> 2, 5, 8, 11<br>3, 6, 9, 12 |                |                                                |   |   |   |    |                |
| 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. |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| SPECIES                                                                                                                                                    | 1 | 4                             | 7 | 10                                                                                      | Collected? (✓) | SPECIES                                        | 1 | 4 | 7 | 10 | 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                                  |   |   |   |    |                |
| Cinnamomum camphora                                                                                                                                        |   |                               |   |                                                                                         |                | *Juncus scirpoides                             |   |   |   |    |                |
| Cladium jamaicense                                                                                                                                         |   |                               |   |                                                                                         |                | Lachnanthes caroliniana                        |   |   |   |    |                |
| <b>Colocasia esculenta</b>                                                                                                                                 | / | /                             | / | /                                                                                       |                | Leersia hexandra                               |   |   |   |    |                |
| *Commelina                                                                                                                                                 |   |                               |   |                                                                                         |                | <b>Landoltia punctata (Spirodela punctata)</b> |   |   |   |    |                |
| Crinum americanum                                                                                                                                          |   |                               |   |                                                                                         |                | Lemna sp.                                      |   |   |   |    |                |
| <b>*Cyperus alternifolius (C. involucratus)</b>                                                                                                            |   |                               |   |                                                                                         |                | Leucothoe racemosa (Eubotrys racemosa)         |   |   |   |    |                |
| Cyperus articulatus                                                                                                                                        |   |                               |   |                                                                                         |                | Limnium spongia                                |   |   |   |    |                |
| Cyperus haspan                                                                                                                                             |   |                               |   |                                                                                         |                | <b>Limnophila sessiliflora</b>                 |   |   |   |    |                |
| *Cyperus lecontei                                                                                                                                          |   |                               |   |                                                                                         |                | Liquidamber styraciflua                        |   |   |   |    |                |
| *Cyperus polystachyos                                                                                                                                      |   |                               |   |                                                                                         |                | *Ludwigia arcuata                              |   |   |   |    |                |
| *Cyperus odoratus                                                                                                                                          |   |                               |   |                                                                                         |                | *Ludwigia grandiflora                          |   |   |   |    |                |
| *Cyperus surinamensis                                                                                                                                      |   |                               |   | /                                                                                       |                | *Ludwigia hexapetala                           |   |   |   |    |                |
| Cyrtilla racemiflora                                                                                                                                       |   |                               |   |                                                                                         |                | *Ludwigia leptocarpa                           | / |   |   |    |                |
| Decodon verticillatus                                                                                                                                      |   |                               |   |                                                                                         |                | Ludwigia (native)                              |   |   |   |    |                |
| Diodia virginiana                                                                                                                                          |   |                               |   |                                                                                         |                | *Ludwigia octovalvis                           | / |   | / |    |                |
| *Echinochloa crus-galli                                                                                                                                    |   |                               |   |                                                                                         |                | <b>*Ludwigia peruviana</b>                     | / |   | / |    |                |
| *Echinochloa muricatum                                                                                                                                     |   |                               |   |                                                                                         |                | *Ludwigia repens                               |   |   |   |    |                |
| Echinochloa walteri                                                                                                                                        |   |                               |   |                                                                                         |                | Ludwigia suffruticosa                          |   |   |   |    |                |
| Eclipta prostrata (E. alba)                                                                                                                                |   |                               |   |                                                                                         |                | Luziola fluitans (Hydrochloa carolinensis)     |   |   |   |    |                |
| <b>Eichhornia crassipes</b>                                                                                                                                | / |                               |   |                                                                                         |                | Magnolia virginiana                            | / |   | / |    |                |
| *Eleocharis                                                                                                                                                |   |                               |   |                                                                                         |                | Mayaca fluviatilis                             |   |   |   |    |                |
| Eleocharis cellulosa                                                                                                                                       |   |                               |   |                                                                                         |                | <b>Melaleuca quinquenervia</b>                 |   |   |   |    |                |
| *Eleocharis elongata                                                                                                                                       |   |                               |   |                                                                                         |                | Micranthemum glomeratum                        |   |   |   |    |                |
| Eleocharis equisetoides                                                                                                                                    |   |                               |   |                                                                                         |                | Micranthemum umbrosum                          |   |   |   |    |                |
| Eleocharis interstincta                                                                                                                                    |   |                               |   |                                                                                         |                | Mikania scandens                               | / | / | / | /  |                |
| Eleocharis submersed viviparous                                                                                                                            |   |                               |   |                                                                                         |                | <b>Mimosa pigra</b>                            | / | / | / | /  |                |
| *Eriocaulon compressum                                                                                                                                     |   |                               |   |                                                                                         |                | Myrica cerifera                                | / | / | / | /  |                |
| *Eriocaulon decangulare                                                                                                                                    |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| Eupatorium capillifolium                                                                                                                                   |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |
| Fraxinus                                                                                                                                                   |   |                               |   |                                                                                         |                |                                                |   |   |   |    |                |

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

| Site: <u>Gum Lake</u>                          |   |   |   |    | Date: <u>10/26/20</u> |                                                    |   |   |   |    |                |
|------------------------------------------------|---|---|---|----|-----------------------|----------------------------------------------------|---|---|---|----|----------------|
| SPECIES                                        | 1 | 4 | 7 | 10 | Collected? (✓)        | SPECIES                                            | 1 | 4 | 7 | 10 | Collected? (✓) |
| <b>Myriophyllum aquaticum</b>                  |   |   |   |    |                       | Salix caroliniana                                  |   |   |   |    |                |
| *Myriophyllum heterophyllum                    |   |   |   |    |                       | <b>Salvinia minima</b>                             |   |   |   |    |                |
| *Myriophyllum laxum                            |   |   |   |    |                       | Sambucus canadensis                                |   |   |   |    |                |
| *Myriophyllum pinnatum                         |   |   |   |    |                       | <b>Sapium sebiferum</b>                            |   |   |   |    |                |
| <b>Myriophyllum spicatum</b>                   |   |   |   |    |                       | Saururus cernuus                                   |   |   |   |    |                |
| *Najas filifolia                               |   |   |   |    |                       | <b>Schinus terebinthifolius</b>                    |   |   |   |    |                |
| *Najas guadalupensis                           |   |   |   |    |                       | *Schoenoplectus californicus                       |   |   |   |    |                |
| *Najas minor                                   |   |   |   |    |                       | *Schoenoplectus pungens                            |   |   |   |    |                |
| Nelumbo lutea                                  |   |   |   |    |                       | *Schoenoplectus tabernaemontani (Scirpus validus)  |   |   |   |    |                |
| Nitella spp.                                   |   |   |   |    |                       | Scirpus cubensis (Oxycaryon cubense)               |   |   |   |    |                |
| Nuphar sp.                                     |   |   |   |    |                       | Scirpus cyperinus                                  |   |   |   |    |                |
| Nymphaea mexicana                              |   |   |   |    |                       | *Sesbania spp.                                     |   |   |   |    | ✓              |
| Nymphaea odorata                               |   |   |   |    |                       | Solidago sp.                                       |   |   |   |    |                |
| Nymphoides aquatica                            |   |   |   |    |                       | Sparganium americanum                              |   |   |   |    |                |
| Nyssa sylvatica var. biflora                   |   |   |   |    | ✓                     | Spartina bakeri                                    |   |   |   |    |                |
| Orontium aquaticum                             |   |   |   |    |                       | Spirodela polyrrhiza                               |   |   |   |    |                |
| Osmunda cinnamomea                             |   |   |   |    |                       | Taxodium sp.                                       |   |   |   |    |                |
| Osmunda regalis                                |   |   |   |    |                       | Thalia geniculata                                  |   |   |   |    |                |
| Panicum hemitomon                              |   |   |   |    |                       | Thelypteris interrupta                             |   |   |   |    |                |
| <b>Panicum repens</b>                          |   |   |   |    |                       | Thelypteris palustris                              |   |   |   |    |                |
| Paspalidium geminatum                          |   |   |   |    |                       | Triadenum virginicum                               |   |   |   |    |                |
| *Paspalum repens                               |   |   |   |    |                       | Typha sp.                                          |   |   |   |    |                |
| Paspalum urvillei                              |   |   |   |    |                       | <b>Urochloa mutica (Brachiaria mutica)</b>         |   |   |   |    |                |
| Peltandra sp.                                  |   |   |   |    |                       | *Utricularia foliosa                               |   |   |   |    |                |
| Persea sp.                                     |   |   |   |    |                       | *Utricularia gibba (U. biflora)                    |   |   |   |    |                |
| <b>Pennisetum purpureum</b>                    |   |   |   |    |                       | *Utricularia inflata                               |   |   |   |    |                |
| Phragmites australis                           |   |   |   |    |                       | *Utricularia purpurea                              |   |   |   |    |                |
| Pinus elliotii                                 |   |   |   |    |                       | *Utricularia radiata                               |   |   |   |    |                |
| <b>Pistia stratioides</b>                      |   |   |   |    |                       | *Utricularia resupinata                            |   |   |   |    |                |
| Pluchea sp.                                    |   |   |   |    |                       | Vallisneria americana                              |   |   |   |    |                |
| *Polygonum glabrum (densiflorum)               |   |   |   |    |                       | Vigna luteola                                      |   |   |   |    |                |
| Polygonum hirsutum                             |   |   |   |    |                       | Vitis sp.                                          |   |   |   |    |                |
| *Polygonum hydropiperoides                     |   |   |   |    |                       | *Websteria confervoides                            |   |   |   |    |                |
| *Polygonum punctatum                           |   |   |   |    |                       | <b>Wedelia trilobata (Sphagneticola trilobata)</b> |   |   |   |    |                |
| *Polygonum                                     |   |   |   |    |                       | Wolffiella spp.                                    |   |   |   |    |                |
| Pontederia cordata                             |   |   |   |    |                       | Woodwardia virginica                               |   |   |   |    |                |
| *Potamogeton diversifolius                     |   |   |   |    |                       | Xyris sp.                                          |   |   |   |    |                |
| *Potamogeton illinoensis                       |   |   |   |    |                       | Zizania aquatica                                   |   |   |   |    |                |
| *Potamogeton pusillus                          |   |   |   |    |                       | Zizaniopsis milacea                                |   |   |   |    |                |
| *Potamogeton pectinatus (Stuckenia pectinatus) |   |   |   |    |                       |                                                    |   |   |   |    |                |
| Proserpinaca pectinata                         |   |   |   |    |                       |                                                    |   |   |   |    |                |
| *Rhexia                                        |   |   |   |    |                       | <u>Fuirena spp. → pumila</u>                       |   |   |   |    | ✓              |
| *Rhynchospora corniculata                      |   |   |   |    |                       | <u>Cyperus spp. → lanceolatus</u>                  |   |   |   |    | ✓              |
| *Rhynchospora inundata                         |   |   |   |    |                       | <u>mystery Fern → Thelypteris interrupta</u>       |   |   |   |    | ✓              |
| Rhynchospora nitens                            |   |   |   |    |                       | <u>Bay spp.</u>                                    |   |   |   |    | ✓              |
| Ricciocarpus natans                            |   |   |   |    |                       | <u>Aster → Symphyotrichum spp.</u>                 |   |   |   |    | ✓              |
| Sabal palmetto                                 |   |   |   |    |                       |                                                    |   |   |   |    |                |
| Sacciolepis striata                            |   |   |   |    | ✓                     |                                                    |   |   |   |    |                |
| *Sagittaria filiformis                         |   |   |   |    |                       |                                                    |   |   |   |    |                |
| *Sagittaria graminea                           |   |   |   |    |                       |                                                    |   |   |   |    |                |
| *Sagittaria isoetiformis                       |   |   |   |    |                       |                                                    |   |   |   |    |                |
| Sagittaria lancifolia                          |   |   |   |    |                       |                                                    |   |   |   |    |                |
| Sagittaria latifolia                           |   |   |   |    |                       |                                                    |   |   |   |    |                |

LVI Map for Gum Lake , WBID 1488C1

