# LVI

Site Name Lake Molly Sample Date 10/22/19

WBID 2690A WIN ID G2CE 0221 RQ-2019-10-21-60

| | Initial/Date | QC Initial/Date |
|---|---|---|
| Water chemistry data to LIMS | LMD 11/7/19 | MKL 11/13/19 |
| Create SBIO station visit 60458 | LMD 11/8/19 | n/a |
| Vascular Entry (add LIMS ID) 11540 | LMD 11/8/19 | MKL 11/13/19 |
| Lake Observation Sheet Entry | LMD 11/8/19 | MKL 11/13/19 |
| Authorize SBIO data | MKL 11/13/19 | n/a |
| Scan all sheets to 21FLCEN folder | | n/a |
| LIMS/WIN migration | | n/a |
| File in cabinet | | n/a |

Comments/notes:

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

January 2019

Data Qualified? Yes / (No)

**WIN Station Name:** Lake Molly @ Center **Date:** 10/22/2019 (mm/dd/yyyy)

**WIN/ Field ID:** G2CE0221 **WBID:** 2680A **Latitude:** 29.068786 (Decimal Degrees)

**County:** Volusia **ORG ID:** 21FLCEN **Longitude:** -81.300066 (Decimal Degrees)

**Receiving Body of Water:** **RQ-2019-** 10-21-60

| Sampling Team Members | WQ Measurements | Sample Collection | Documentation | Preservation | Preservation Check |
|---|---|---|---|---|---|
| Mike Linger | / | | / | | |
| | | | | | |
| Mike Drennan | | / | | / | / |

**Sampling Equipment**

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

**Depth Measured with** Secchi Disk Line / Meter

**Equipment ID** Leadfoot, Knothead, Crusty/Bucket, Mucky/Trap

**Collection Method**

- [ ] Wading [x] Canoe/Kayak
- [ ] From Shore [x] Electric Motor
- [ ] Other [ ] Gasoline Motor

**Water Level:** Dry/ Pooled/ Low / Normal / (High) / Flooded **Meter ID#** Shrimp / Trap **Matrix:** (Fresh) / Marine / DI

**Photos:** (Yes) / No **Flow:** No Flow / Intestital / Flowing / (NA) **Tide:** Rising/ Falling/ Slack/ (NA) **Tide Times:** High Low

| Time Zone | Time | Total Depth (m) | Sample Depth (m) | Secchi Disk (m) | DO (mg/L) | DO (%SAT) | pH | Salinity (PPTh) | Sp COND (µmhos/cm) | Temp. (C°) |
|---|---|---|---|---|---|---|---|---|---|---|
| (EST) | 1142 | 6.0 | 0.3 | 1.4 | 9.12 | 114.9 | 7.97 | 0.08 | 178.8 | 27.1 |
| ~~CEN~~ | | | 5.5 | | 4.52 | 60.5 | 7.23 | 0.08 | 178.6 | 25.9 |

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

**SBIO ID Numbers:** SBIO-ID: HA-ID: 163609 RPS-ID: Macrophyte-ID: 11540 LIMS#: 2130755

| Parameter Suite | Parameter Methods | Preservation | Lot# | Expiration | pH Check |
|---|---|---|---|---|---|
| Preserved Nutrients | [x] W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP | [x] Ice [x] $H_2SO_4$ | SA7163030 | 10/30/19 | [x] <2 |
| Metals | [ ] W-ICPMS [ ] W-ICP | [ ] Ice [ ] $HNO_3$ | | | [ ] <2 |
| Filtered Nutrients | [x] W-PO4-F [x] Field Filtered 0.45 µm Filter | [x] Ice | 16930280 | | |
| Chlorophyll | [x] CHLSUITE-W | [x] Ice | | | |
| Physical/Aggregate (Fresh) | [x] Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-IC / W-COLOR / W-SO4-IC / W-TDS | [x] Ice | | | |
| Physical/Aggregate (Marine) | [ ] Alkalinity / W-F / W-TSS / TURBIDITY | [ ] Ice | | | |
| Macroinvertebrates | [ ] MI-FW-QLDC | [ ] Formalin | | | |
| Periphyton | [ ] ALGAE-ID | [ ] Ice | | | |
| Microbiology | [ ] E Coli [ ] F Coli [ ] Enterococci | [ ] Ice | | | |
| Molecular | [ ] PCR-FILTER [ ] PCR-BacR [ ] PCR-GULL2 [ ] PCR-HF183 [ ] PCR-DG3 [ ] PCR-GFD | [ ] Ice | | | |
| Tracers | [ ] W-E8321-DI [ ] W-E8321-MS | [ ] Ice | | | |
| Pesticides | [ ] W-PSNP-TQ [ ] W-CT-CL-R [ ] W-E8321-DI [ ] W-PCL-SQ-R [ ] WE8321-MS [ ] W-CARB-AA | [ ] Ice [ ] Other | | | |
| Phytoplankton | [ ] DTY-QN-C [ ] PKD-QN-C | [ ] Ice | | | |

H2SO4-Recertif
LOT# SA7163030
EXP: 10/30/2019

Place Preservative Sticker(s) Here (If Available)

**Notes:**

**Signature:** **Date:** 10/22/19

**WIN ID / Field ID →** Lake Molly @ Center

G2CE0221

**LIMS EVENT ID:** CENT-DIST-2019- 10-23-01

**Enter Field Parameters, Verify Station ID In LIMS DMT:** LMD 11/7/19 (Initials/Date) **QC Station ID, Field Parameters In LIMS DMT:** MKL 11/13/19 (Initials/Date)

**Scan/Save Field Sheets** (Initials/Date) **Migrate Data to WIN:** (Initials/Date) **Verify Data In WIN:** (Initials/Date)

# DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

| STORET STATION NUMBER: | DATE (M/D/Y) | LAKE NAME | FIELD ID / NAME: |
|---|---|---|---|
| G2CE0221 | 10/22/19 | Lake Molly | |
| ECO-REGION: | COUNTY: | SAMPLING LOCATION/DESCRIPTION: | LAKE SIZE: |
| | Volusia | E. Center | Small |

| PARAMETER | | | |
|---|---|---|---|
| **HYDROLOGY** | No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐ | Surface water inflow present, but flow is rare, moderate to long water residence time ☑ | Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐ | Impounded, hydrology of system artificially controlled ☐ |
| **Color** | Very clear, uncolored water (benthic sampling appropriate) ☐ | Water somewhat tannin stained (benthic sampling appropriate) ☑ | Dark, discolored water (water color 20 PCU or higher) ☐ | Visibility extremely reduced due to high color ☐ |

| | Optimal | | | | | Suboptimal | | | | | Marginal | | | | | Poor | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Secchi** 11 | Secchi >3 m | | Secchi(m) | | | 3 | 2.6 | 2.2 | 1.8 | 1.4 | 1.0 | 0.9 | 0.8 | 0.7 | 0.6 | 0.5 | 0.4 | 0.3 | 0.2 | 0.1 |
| | Or VOB | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Vegetation Quality** 9 | Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa | | | | | Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants | | | | | Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats | | | | | Lake choked (>40%) with nuisance macrophytes (duck-weed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Stormwater Inputs** 6 | 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 | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Bottom Substrate Quality** 8 | Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present | | | | | Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present | | | | | Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom | | | | | Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Lakeside Adverse Human Alternations** 7 | Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) | | | | | 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) | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Upland Buffer Zone** 6 | 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 | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
| **Adverse Watershed Land Use** 11 | Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial | | | | | | | | | | | | | | | | | | | |
| | 20 | 19 | 18 | 17 | 16 | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

| TOTAL SCORE | 58 | COMMENTS: |
|---|---|---|

| ANALYSIS DATE: | ANALYST: | SIGNATURE: |
|---|---|---|
| 10/22/19 | Mike Linger | |

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

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.068786

COUNTY: Volusia STORET #: G2CE0221 LONGITUDE: -81.300066

DATE: 10/22/19 TIME: 1142 SAMPLING AGENCY: FDEP CE-ROC

SITE NAME: Lake Molly @ Center WBID: 2680 A

FIELD ID/NAME: _____ LAKE SIZE: small RQ: ~2019-10-21-60

## WATERSHED / LAKESIDE FEATURES

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

| Forest/Natural | Silviculture | Field/Pasture | Agricultural | Residential | Commercial | Industrial | Other (Specify) |
|---|---|---|---|---|---|---|---|
| 15 | | | | 75 | 10 | | |

**LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)**

LDI: _____

Land Use Source & Year:

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☐ Heavy

Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☐ Heavy

**Artificially Impounded** ☐ Yes ☑ No

| | | | | |
|---|---|---|---|---|
| STORMWATER INPUTS: 6 | 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 |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |
| LAKESIDE ALTERATIONS: 7 | 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) |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |
| BUFFER ZONE: 6 | 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 |
| | 20 19 18 17 16 | 15 14 13 12 11 | 10 9 8 7 6 | 5 4 3 2 1 |

## WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

**Water:**

Nutrient Sample Taken? ☑ Yes ☐ No Preserved? ☐ Yes ☐ pH<2 ☐ No

Color Sample Taken? ☑ Yes ☐ No Lot # _____ Exp. Date: _____

Alkalinity Sample Taken? ☑ Yes ☐ No

Water Level ☐ Low ☑ Normal ☐ High

**Water Odors:** ☑ Normal ☐ Sewage ☐ Petroleum ☐ Other _____

**Water Surface Oils:** ☑ None ☐ Sheen/Slick ☐ Glob ☐ Other _____

**Meter Readings:**

| | Depth (M) | Temp. (°C) | pH (SU) | D.O. (MG/L) | D.O. Sat. (%) | Cond. (UMHO/CM) | Salinity (PPT) |
|---|---|---|---|---|---|---|---|
| Top: | 0.3 | 27.1 | 7.97 | 9.12 | 114.9 | 178.8 | 0.08 |
| Mid-Depth: | | | | | | | |
| Bottom : | 5.5 | 25.9 | 7.23 | 4.52 | 60.5 | 178.6 | 0.08 |

Meter ID: Shrimp Trap

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

**Color:** ☑ Clear ☐ Tannic ☐ Green

SECCHI (M): 1.4 VOB ☐

Total Station Depth (M): 6.0

**Sediment Type:** (may check more than one)

☑ Sandy ☑ Organic fibrous (peaty, CPOM) ☑ Vegetated

☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify):_____

Sample Taken? ☐ Yes ☑ No

**Sediment Odors:**

☑ Normal ☐ Other (Specify): _____

☐ Anaerobic

**Biological Communities:**

LVI Conducted? ☑ Yes ☐ No

Phytoplankton Sample Taken? ☐ Yes ☑ No

Sample Preserved? ☐ Yes ☐ No

Lot #: _____ Exp Date: _____

Algal Bloom/Algal ID Sample Taken? Yes (No)

Active Vegetation Mgmt? ☐ Yes ☐ No ☑ Don't Know

**Abundance:**

| | Absent | Rare | Common | Abundant |
|---|---|---|---|---|
| Periphyton | ☐ | ☐ | ☑ | ☐ |
| Nuisance Plants | ☐ | ☐ | ☑ | ☐ |
| Submersed Plants | ☐ | ☐ | ☑ | ☐ |
| Exotic Apple Snails | ☑ | ☐ | ☐ | ☐ |

**Additional Notes:**

80's

**Weather Conditions :**

**SAMPLING TEAM:** Mike Linger / Mike Drennan **SIGNATURE:** _____ **DATE:** 10/22/19

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

| | | |
|---|---|---|
| Waterbody: Lake Molly | County: Volusia | Date: 10/22/19 |
| Analyst: Mike Linger, Mike Drennen | Signature: | STORET: 62CE0221 |

**Except where noted as "sp." species level identification required. *Genera that may require lab verification***
**Plants in bold= FLEPPC invasive exotic.**

**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.**

Lake units sampled (circle one group):
(1, 4, 7, 10) 2, 5, 8, 11
3, 6, 9, 12

| SPECIES | 1 | 4 | 7 | 10 | Collected? (√) |
|---|---|---|---|---|---|
| Acer rubrum | / | / | | / | |
| **Alternanthera philoxeroides** | / | / | / | / | |
| Amaranthus australis | | | / | | |
| Andropogon sp. | | | | | |
| Azolla filiculoides (A. caroliniana) | | | | | |
| Baccharis sp. | | | | | |
| Bacopa caroliniana | | | | | |
| Bacopa monnieri | | | | | |
| Bidens alba | | | | | |
| Bidens laevis | | | | | |
| Bidens mitis | | | | | |
| Blechnum serrulatum | | | | | |
| Boehmeria cylindrica | | | | | |
| Brasenia schreberi | | | | | |
| Cabomba caroliniana | | | | | |
| Canna | | | | | |
| Centella asiatica | | | | | |
| Cephalanthus occidentalis | | | | | |
| Ceratophyllum demersum | | | | | |
| Chara sp. | D | / | D | | |
| Cicuta maculata | / | | | | |
| Cinnamomum camphora | / | | | | |
| Cladium jamaicense | / | | | | |
| **Colocasia esculenta** | / | / | / | / | |
| *Commelina | | | | | |
| Crinum americanum | | | | | |
| ***Cyperus alternifolius (C. involucratus)** | | | | | |
| Cyperus articulatus | | | | | |
| Cyperus haspan | | | | | |
| *Cyperus lecontei | | | / | | |
| *Cyperus polystachyos | | | | | |
| *Cyperus odoratus | / | | | | |
| *Cyperus surinamensis | | | | | |
| Cyrilla racemiflora | | | | | |
| Decodon verticillatus | | | | | |
| Diodia virginiana | | | | | |
| *Echinochloa crus-galli | | | | | |
| *Echinochloa muricatum | | | | | |
| Echinochloa walteri | | | | | |
| Eclipta prostrata (E. alba) | | | | | |
| **Eichhornia crassipes** | | | | | |
| *Eleocharis baldwinii | / | / | / | | |
| Eleocharis cellulosa | | | | | |
| *Eleocharis elongata | | | | | |
| Eleocharis equisetoides | | | | | |
| Eleocharis interstincta | | | | | |
| Eleocharis submersed viviparous | | | | | |
| *Eriocaulon compressum | | | | | |
| *Eriocaulon decangulare | | | | | |
| Eupatorium capillifolium | / | | | | |
| Eleocharis viv. | / | / | / | / | |

| SPECIES | 1 | 4 | 7 | 10 | Collected? (√) |
|---|---|---|---|---|---|
| Fraxinus | | | | | |
| Fuirena scirpoides | | | / | | |
| Gordonia lasianthus | | | | | |
| Habenaria repens | | | | | |
| Hibiscus coccineus | | | | | |
| Hibiscus grandiflora | | | | | |
| **Hydrilla verticillata** | | | | | |
| Hydrocotyle sp. | | | / | | |
| **Hygrophila polysperma** | | | | | |
| Hymenocallis sp. | | | | | |
| *Hypericum fasciculatum | | / | | | |
| *Hypericum hypericoides | | | | | |
| *Hypericum myrtifolium | | | | | |
| Ilex cassine | | / | | | |
| **Ipomoea aquatica** | | | | | |
| Ipomoea sagittata | | | | | |
| Itea virginica | | | | | |
| Juncus effusus | | | | | |
| *Juncus marginatus | | | | | |
| *Juncus megacephalus | | | | | |
| Juncus repens | | | | | |
| *Juncus scirpoides | | | | | |
| Lachnanthes caroliniana | | | | | |
| Leersia hexandra | / | C | | | |
| **Landoltia punctata (Spirodela punctata)** | | | | | |
| Lemna sp. | | | | | |
| Leucothoe racemosa (Eubotrys racemosa) | | | | | |
| Limnobium spongia | | | | | |
| **Limnophila sessiliflora** | | | | | |
| Liquidamber styraciflua | | | | | |
| *Ludwigia arcuata | | | | | |
| *Ludwigia grandiflora | | | | | |
| *Ludwigia hexapetala | | | | | |
| *Ludwigia leptocarpa | | | | | |
| Ludwigia (native) | | | | | |
| *Ludwigia octovalvis | / | | | | |
| ***Ludwigia peruviana** | / | / | / | / | |
| *Ludwigia repens | | | | | |
| Ludwigia suffruticosa | / | | / | / | |
| Luziola fluitans (Hydrochloa carolinensis) | | | | | |
| Magnolia virginiana | | / | | | |
| Mayaca fluviatilis | | | | | |
| **Melaleuca quinquenervia** | | | | | |
| Micranthemum glomeratum | | | | | |
| Micranthemum umbrosum | / | / | / | | |
| Mikania scandens | | / | | / | |
| **Mimosa pigra** | | | | | |
| Myrica cerifera | / | / | / | / | |

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

Site: Lake Molly | Date: 10/22/19

| SPECIES | 1 | 4 | 7 | 10 | Collected? (√) |
|---|---|---|---|---|---|
| **Myriophyllum aquaticum** | | | | | |
| *Myriophyllum heterophyllum | | | | | |
| *Myriophyllum laxum | | | | | |
| *Myriophyllum pinnatum | | | | | |
| **Myriophyllum spicatum** | | | | | |
| *Najas filifolia | | | | | |
| *Najas guadalupensis | | | | | |
| *Najas minor | | | | | |
| Nelumbo lutea | | | | | |
| Nitella spp. | | | | | |
| Nuphar sp. | / | / | / | / | |
| Nymphaea mexicana | | / | | | |
| Nymphaea odorata | / | / | / | / | |
| Nymphoides aquatica | | | | | |
| Nyssa sylvatica var. biflora | | | | | |
| Orontium aquaticum | | | | | |
| Osmunda cinnamomea | | | | | |
| Osmunda regalis | | | | | |
| Panicum hemitomon | / | / | / | | |
| **Panicum repens** | / | / | / | / | |
| Paspalidium geminatum | | | | | |
| *Paspalum repens | | | | | |
| Paspalum urvillei | | | | | |
| Peltandra sp. | | | | | |
| Persea sp. | | | | | |
| **Pennisetum purpureum** | | | | | |
| Phragmites australis | | | | | |
| Pinus elliottii | | / | | | |
| **Pistia stratioides** | | | | | |
| Pluchea sp. | | | | | |
| *Polygonum glabrum (densiflorum) | | | | | |
| Polygonum hirsutum | | | | | |
| *Polygonum hydropiperoides | | | | | |
| *Polygonum punctatum | | | | | |
| *Polygonum _____ | | | | | |
| Pontederia cordata | | | | | |
| *Potamogeton diversifolius | | | | | |
| *Potamogeton illinoensis | | | | | |
| *Potamogeton pusillus | | | | | |
| *Potamogeton pectinatus (Stuckenia pectinatus) | | | | | |
| Proserpinaca pectinata | | | | | |
| *Rhexia nashii | | | / | | |
| *Rhynchospora corniculata | | | | | |
| *Rhynchospora inundata | | | | | |
| Rhynochospora nitens | | | | | |
| Ricciocarpus natans | | | | | |
| Sabal palmetto | | | | | |
| Sacciolepis striata | | / | / | | |
| *Sagittaria filiformis | | | | | |
| *Sagittaria graminea | | | | | |
| *Sagittaria isoetiformis | | | | | |
| Sagittaria lancifolia | | | / | | |
| Sagittaria latifolia | | | | | |
| | | | | | |

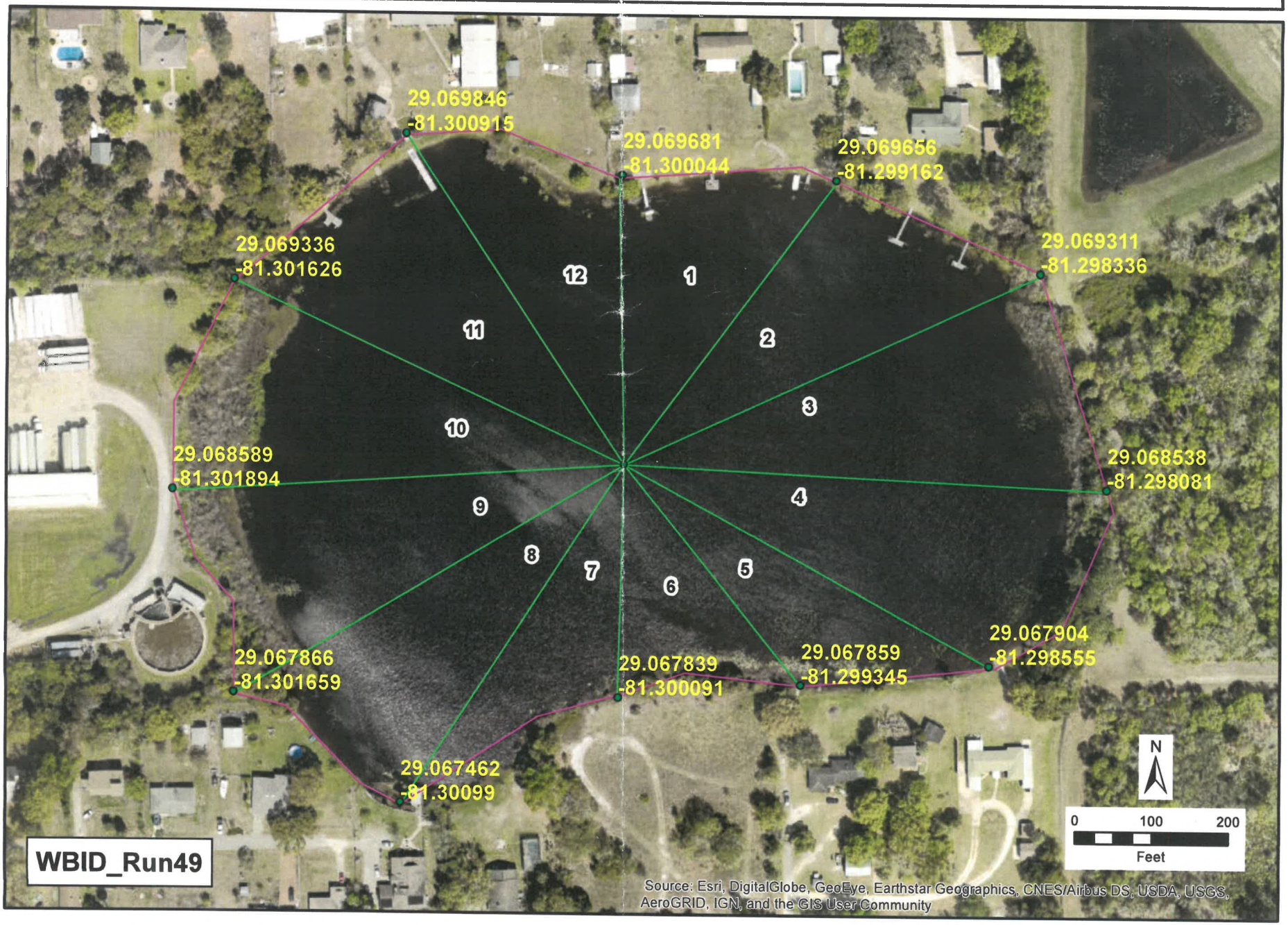
| SPECIES | 1 | 4 | 7 | 10 | Collected? (√) |
|---|---|---|---|---|---|
| Salix caroliniana | | | | / | |
| **Salvinia minima** | | | | | |
| Sambucus canadensis | | | | | |
| **Sapium sebiferum** | | | | | |
| Saururus cernuus | | | | | |
| **Schinus terebinthifolius** | | | | | |
| *Schoenoplectus californicus | | | | | |
| *Schoenoplectus pungens | | | | | |
| *Schoenoplectus tabernaemontani (Scirpus validus) | | | | | |
| Scirpus cubensis (Oxycaryon cubense) | | | | | |
| Scirpus cyperinus | | | | | |
| *Sesbania | | | | | |
| Solidago sp. | | | / | | |
| Sparganium americanum | | | | | |
| Spartina bakeri | | | | | |
| Spirodela polyrhiza | | | | | |
| Taxodium sp. | / | | | | |
| Thalia geniculata | | | | | |
| Thelypteris interrupta | | | | | |
| Thelypteris palustris | | | | | |
| Triadenum virginicum | | | | | |
| Typha sp. | / | | | / | |
| **Urochloa mutica (Brachiaria mutica)** | | | | | |
| *Utricularia gibba (U. biflora) | / | / | / | / | |
| *Utricularia foliosa | | | | | |
| *Utricularia inflata | | | | | |
| *Utricularia purpurea | | | | | |
| *Utricularia radiata | | | | | |
| *Utricularia resupinata | | | | | |
| Vallisneria americana | | | | | |
| Vitis sp. | / | / | | | |
| *Websteria confervoides | | | | | |
| **Wedelia trilobata (Sphagneticola trilobata)** | | | | | |
| Wolffiella spp. | | | | | |
| Woodwardia virginica | | | / | | |
| Xyris sp. | / | | | | |
| Zizania aquatica | | | | | |
| Zizaniopsis milacea | | | | | |
| Maroon flower (Macroptilium lathyroides) | / | | | | / |
| Urena lobata | / | / | | | |
| Rhynchospora J. megacephalus | | | / | | / |
| | | | | | |

Site: 29.068786
-81.300066

G2

open property @ 29.067789, -81.298673
1884 N. Palmetto Dr, Deland (Carol + Rick)

# LVI Map for Lake Molly, WBID 2680A




Current Date: 7/9/2019

Date Saved: 7/9/2019