

Migrate Data to WIN: _____ (Initials/Date)

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Geneva Mary O</u>	County: <u>Orange</u>	Date: <u>7/11/22</u>	
Analyst: <u>Liz Bates, Kate Marsh</u>	Signature: <u>[Signature]</u>	STORET:	
Except where noted as "sp." species level identification required. *Genera that may require lab verification* Plants in bold = FLEPPC invasive exotic.		Lake units sampled (circle one group): <u>1, 4, 7, 10</u> 2, 5, 8, 11 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	Collected? (✓)	SPECIES	Collected? (✓)
Acer rubrum		Fuirena scirpoides	
Alternanthera philoxeroides	✓	Gordonia lasianthus	
Amaranthus australis		Habenaria repens	
Andropogon sp.		Hibiscus coccineus	
Azolla filiculoides (A. caroliniana)		Hibiscus grandiflora	
Baccharis sp.		Hydrilla verticillata	✓
Bacopa caroliniana		Hydrocotyle sp.	
Bacopa monnieri		Hygrophila polysperma	
Bidens alba		Hymenocallis sp.	
Bidens laevis		*Hypericum fasciculatum	
Bidens mitis		*Hypericum hypericoides	
Blechnum serrulatum		*Hypericum myrtifolium	
Boehmeria cylindrica		Ilex cassine	
Brasenia schreberi		Ipomoea aquatica	
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	
Colocasia esculenta	✓	Lachnanthes caroliniana	
*Commelina		Leersia hexandra	
Crinum americanum		Landoltia punctata (Spirodela punctata)	
*Cyperus alternifolius (C. involucratus)	✓	Lemna sp.	
Cyperus articulatus		Leucothoe racemosa (Eubotrys racemosa)	
Cyperus haspan		Limnium spongia	
*Cyperus lecontei		Limnophila sessiliflora	
*Cyperus polystachyos		Liquidambar styraciflua	
*Cyperus odoratus		*Ludwigia arcuata	
*Cyperus surinamensis		*Ludwigia grandiflora	
Cyrilla racemiflora		*Ludwigia hexapetala	
Decodon verticillatus		*Ludwigia leptocarpa	
Diodia virginiana		Ludwigia (native)	
*Echinochloa crus-galli		*Ludwigia octovalvis	
*Echinochloa muricatum		*Ludwigia peruviana	✓
Echinochloa walteri		*Ludwigia repens	
Eclipta prostrata (E. alba)		Ludwigia suffruticosa	
Eichhornia crassipes		Luziola fluitans (Hydrochloa carolinensis)	
*Eleocharis		Magnolia virginiana	
Eleocharis cellulosa		Mayaca fluviatilis	
*Eleocharis elongata		Melaleuca quinquenervia	
Eleocharis equisetoides		Micranthemum glomeratum	
Eleocharis interstincta		Micranthemum umbrosum	
Eleocharis submersed viviparous		Mikania scandens	✓
*Eriocaulon compressum		Mimosa pigra	
*Eriocaulon decangulare		Myrica cerifera	
Eupatorium capillifolium			
Fraxinus			

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: 7111/22				Date: Lake Glen Mary			
SPECIES			Collected? (✓)	SPECIES			Collected? (✓)
Myriophyllum aquaticum				Salix caroliniana			
*Myriophyllum heterophyllum				Salvinia minima			
*Myriophyllum laxum				Sambucus canadensis			
*Myriophyllum pinnatum				Sapium sebiferum			
Myriophyllum spicatum				Saururus cernuus			
*Najas filifolia				Schinus terebinthifolius			
*Najas guadalupensis				*Schoenoplectus californicus			
*Najas minor				*Schoenoplectus pungens			
Nelumbo lutea				*Schoenoplectus tabernaemontani (Scirpus validus)			
Nitella spp.				Scirpus cubensis (Oxycaryon cubense)			
Nuphar sp.				Scirpus cyperinus			
Nymphaea mexicana				*Sesbania			
Nymphaea odorata				Solidago sp.			
Nymphoides aquatica				Sparganium americanum			
Nyssa sylvatica var. biflora				Spartina bakeri			
Orontium aquaticum				Spirodela polyrhiza			
Osmunda cinnamomea				Taxodium sp.			
Osmunda regalis				Thalia geniculata			
Panicum hemitomon				Thelypteris interrupta			
Panicum repens				Thelypteris palustris			
Paspalidium geminatum				Triadenum virginicum			
*Paspalum repens				Typha sp.			
Paspalum urvillei				Urochloa mutica (Brachiaria mutica)			
Peltandra sp.				*Utricularia foliosa			
Persea sp.				*Utricularia gibba (U. biflora)			
Pennisetum purpureum				*Utricularia inflata			
Phragmites australis				*Utricularia purpurea			
Pinus elliotii				*Utricularia radiata			
Pistia stratioides				*Utricularia resupinata			
Pluchea sp.				Vallisneria americana			
*Polygonum glabrum (densiflorum)				Vigna luteola			
Polygonum hirsutum				Vitis sp.			
*Polygonum hydropiperoides				*Websteria confervoides			
*Polygonum punctatum				Wedelia trilobata (Sphagneticola trilobata)			
*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							
*Rhynchospora corniculata							
*Rhynchospora inundata							
Rhynchospora nitens							
Ricciocarpus natans							
Sabal palmetto							
Sacciolepis striata							
*Sagittaria filiformis							
*Sagittaria graminea							
*Sagittaria isoetiformis							
Sagittaria lancifolia							
Sagittaria latifolia							

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** _____
COUNTY: _____ **STORET #:** 64CE0222 **LONGITUDE:** _____
DATE: _____ **TIME:** _____ **SAMPLING AGENCY:** 21PLCEN
SITE NAME: Lake Gem Mary **WBID:** 3168W1
FIELD ID/NAME: Lake Gem Mary, Center of Lake **LAKE SIZE:** _____ **RQ:** 2022-07-11-27

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)			LDI: _____							
				<u>90</u>	<u>10</u>					Land Use Source & Year:							
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy						Artificially Impounded											
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy						☐ Yes ☒ 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>4</u>		20 19 18 17 16				15 14 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>3</u>		20 19 18 17 16				15 14 13 12 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>4</u>		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 ☐ No 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 _____							
Meter Readings: Top: <u>0.3</u> <u>32.2</u> <u>7.09</u> <u>7.36</u> <u>101.2</u> <u>315.1</u> <u>0.15</u> Mid-Depth: <u>2.0</u> <u>31.7</u> <u>7.07</u> <u>7.4</u> <u>100.9</u> <u>315.2</u> <u>0.15</u> Bottom: <u>8.7</u> <u>25</u> <u>6.15</u> <u>0.29</u> <u>3.5</u> <u>333.2</u> <u>0.15</u>								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>Crow Daddy</u>								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid							
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Color: ☒ Clear ☐ Tannic ☐ Green							
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								SECCHI (M) <u>2.6</u> Total Station Depth (M) <u>9.2</u> VOB ☐							
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☒ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☐ ☐ ☒ ☐								Sediment Odors: ☐ Normal ☐ Other (Specify): _____ ☐ Anaerobic							
Additional Notes: <u>water blue green tint.</u> <u>large storm drains</u> <u>water color looks like alum applied</u>															
Weather Conditions: <u>sun overhead, hot</u>															
SAMPLING TEAM: <u>W Bates, Katie March</u>										SIGNATURE: <u>[Signature]</u>			DATE: <u>7/11/22</u>		

LVI MAP FOR WBID 3168W1 LAKE MARY GEM

