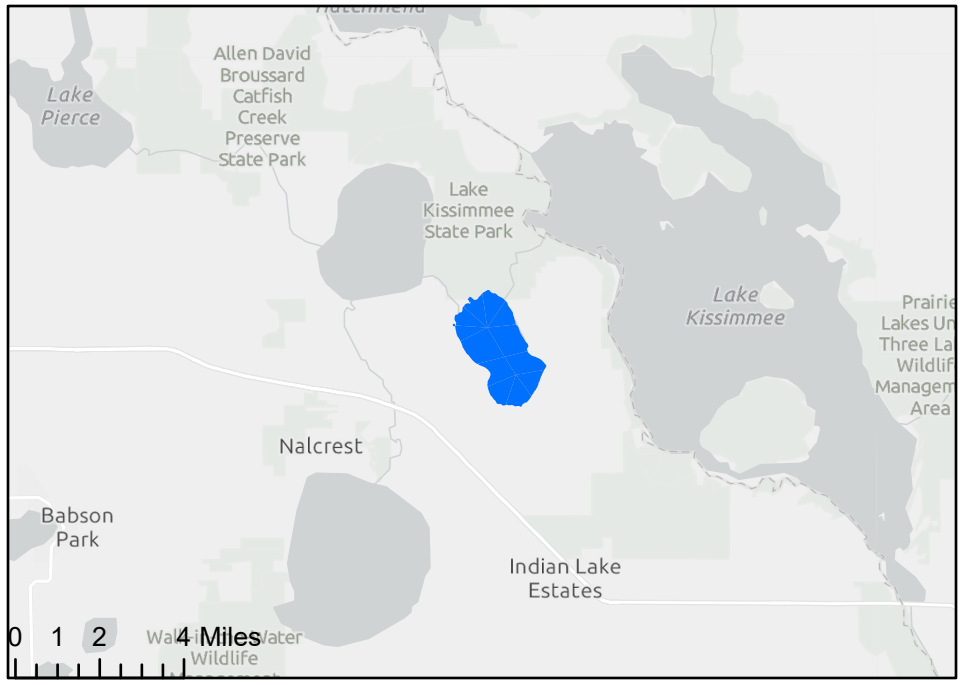
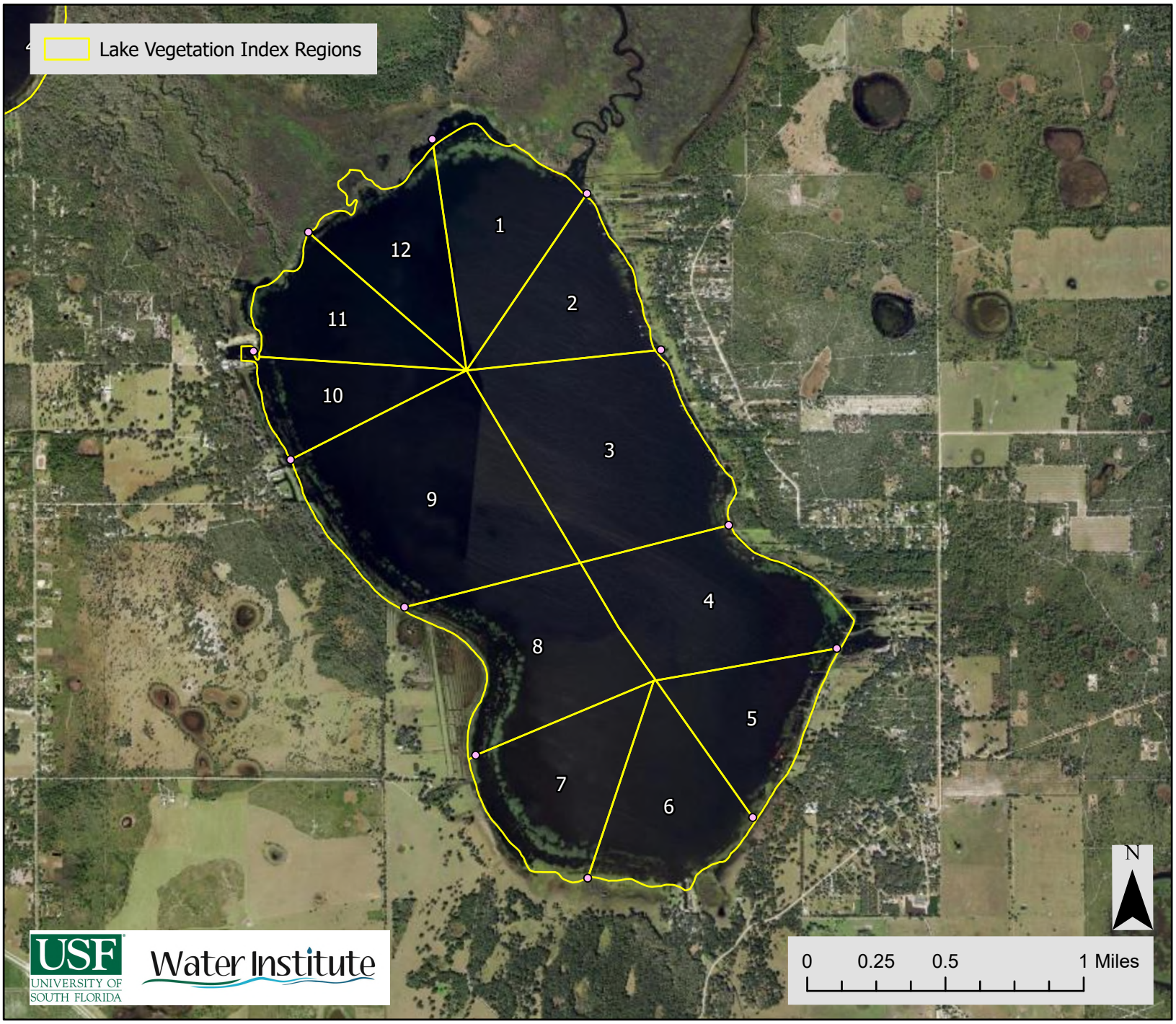
Tiger Lake
WBID 1573A

Sample Date - August 14, 2026
Surface Area - 2,141 acres (93,246,575 sqft)
100m Landscape Development Intensity - 2.9
Dominant Land Use 100m Buffer -
- Natural (57%)
- Agricultural (19.6%)
- Residential (9.6%)

Lake Vegetation Index - 60
Lake Habitat Assessment - 89
Water Clarity - 0.52 m (1.71 ft)



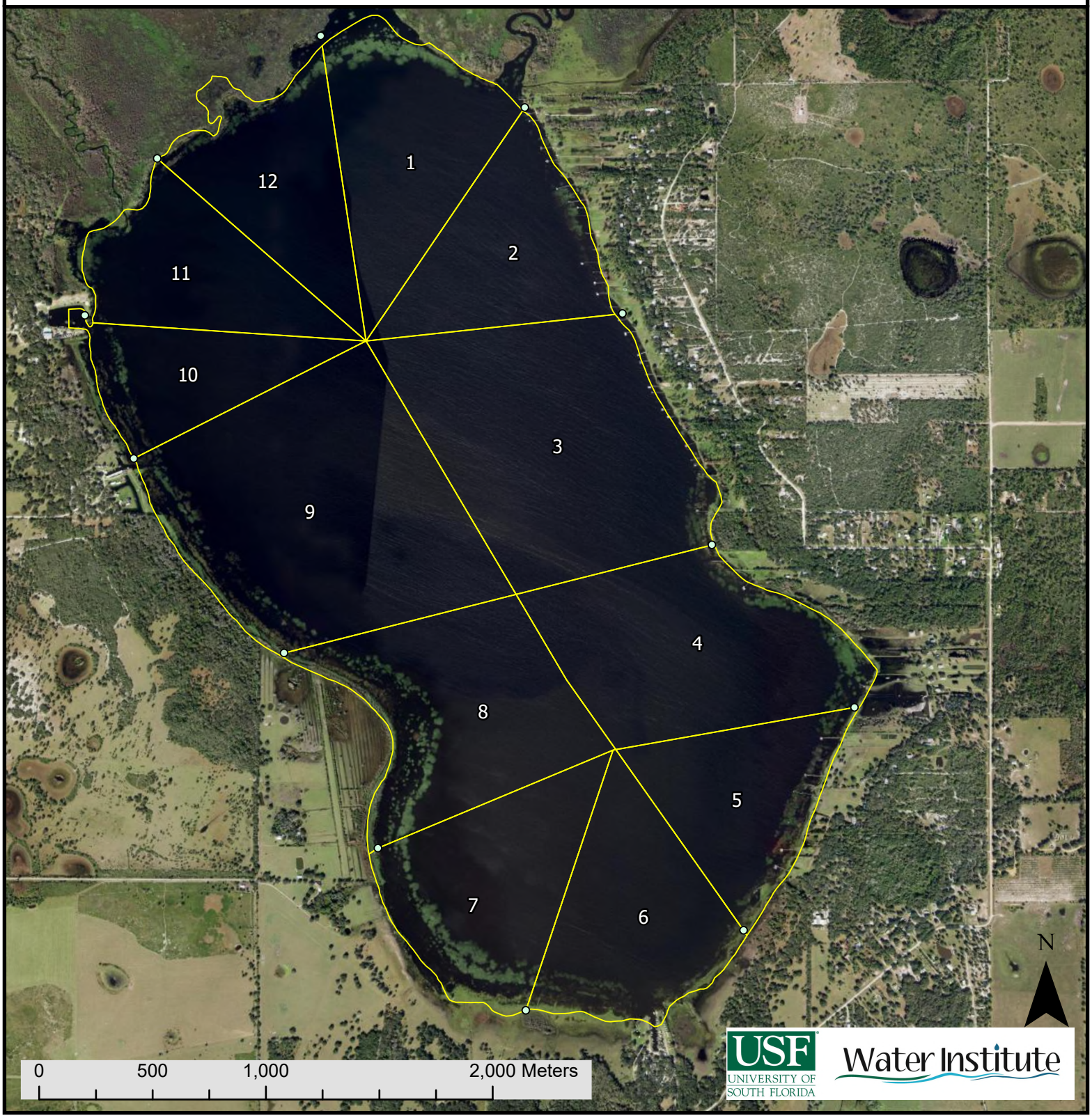


Tiger Lake
WBID 1573A

Lake Vegetation Index Regions

Sample Date - August 14, 2026
Regions Assessed - (1, 4, 7, 10)
Dominant Species Per Region -
1 - Nuphar
4 - Nuphar
7 - Nuphar
10 - Nuphar,
Schoenoplectus californicus

Lake Description
Water Clarity - 0.52 meters
(1.71 ft)
- Turbid
Color - Green
Sediment Types
Sandy
Organic fibrous (CPOM)
Lake Vegetation Index - 60



DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: Tiger26 | MACROPHYTE ID: | LATITUDE: 27.813497
COUNTY: Polk | STORET #: | LONGITUDE: -81.359069
DATE: 8/14/26 | TIME: 10:00 | SAMPLING AGENCY: USF WRL
SITE NAME: Tiger Lake | WBID: 1573A
FIELD ID/NAME: Tiger | LAKE SIZE: 214 | RQ:

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)
57		10.4	19.6	9.6			

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: 2.9

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 16	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1
LAKESIDE ALTERATIONS 15	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16	Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11	Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6	Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1
BUFFER ZONE 15	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6	< 29% of shoreline with >18m buffer 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:	0.25	32.77	7.56	7.97	110.5	161.3	0.07
Mid-Depth:	0.82	31.82	7.41	7.28	99.0	160.6	0.07
Bottom :	1.72	31.01	7.29	1.74	22.40	156.6	0.07

Meter ID: USF Monitor 2

Clarity: ☐ Clear ☐ Opaque ☑ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☐ Tannic ☑ Green

SECCHI (M) 0.52 VOB ☐

Total Station Depth (M) 1.95

Sediment Type: (may check more than one) Sample Taken? ☑ Yes ☐ No

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

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

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:

Weather Conditions :

SAMPLING TEAM: David Fike | **SIGNATURE:** | **DATE:** 8/14/26

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Tiger Lake	County: Polk	Date: 8/14/25
Analyst: D.E. Lars	Signature:	STORET:

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? (√)	SPECIES	1	4	7	10	Collected? (√)
Acer rubrum						**Hydrilla verticillata**					
Alternanthera philoxeroides						Hydrocotyle sp.					
Andropogon sp.						Hydrocotyle umbellata					
Andropogon glomeratus						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Ilex cassine					
Baccharis sp.						Imperata cylindrica					
Baccharis glomeruliflora						Ipomoea sagittata					
Bacopa monnieri						Itea virginica					
Bidens alba						Juncus effusus					
Blechnum serrulatum						*Juncus marginatus					
Boehmeria cylindrica						*Juncus megacephalus					
Casuarina equisitifolia						Juncus repens					
Centella asiatica						*Juncus scirpoides					
Cephalanthus occidentalis						Lachnanthes caroliniana					
Ceratophyllum demersum						Leersia hexandra					
Chara sp.						**Landoltia punctata** (Spirodela punctata)					
Cladium jamaicense						Lemna sp.					
Colocasia esculenta						Lemna minor					
*Commelina						**Limnophila sessiliflora**					
Crinum americanum						Liquidamber styraciflua					
Cyperus sp.						*Ludwigia sp.					
Cyperus articulatus						*Ludwigia arcuata					
***Cyperus alternifolius** (C. involucratus)						*Ludwigia erecta					
*Cyperus belephaleptos						*Ludwigia leptocarpa					
Cyperus haspan						*Ludwigia linearis					
*Cyperus lecontei						*Ludwigia octovalvis					
*Cyperus odoratus						***Ludwigia peruviana**					
*Cyperus polystachyos						*Ludwigia repens					
*Cyperus surinamensis						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Magnolia virginiana					
Dioscorea bulbifera						**Melaleuca quinquenervia**					
*Echinochloa crus-galli						Micranthemum glomeratum					
Echinochloa walteri						Micranthemum umbrosum					
Eclipta prostrata (E. alba)						Mikania scandens					
Eichhornia crassipes						**Mimosa pigra**					
*Eleocharis						Musa					
*Eleocharis baldwinii						Myrica cerifera					
Eleocharis cellulosa						Myriophyllum aquaticum					
Eleocharis equisetoides						**Myriophyllum spicatum**					
Eleocharis interstincta						*Najas guadalupensis					
Eleocharis vivipara						Nelumbo lutea					
Erechitetes hieraciifolius						Nitella sp.					
Eupatorium capillifolium											
*Fuirena											
Fuirena breviseta											
Fuirena pumila											
Fuirena scirpoidea											
Gordonia lasianthus											
Habenaria repens											
Hibiscus grandiflorus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Tiger | Date: 3/14/26

SPECIES	1	4	7	10	Collected? (√)	SPECIES	1	4	7	10	Collected? (√)
Nuphar sp.	D	D	D	C		Sparganium americanum					
Nymphaea odorata						Spartina bakeri			1		
Nymphoides aquatica						Taxodium sp.		1	1		
Nyssa sylvatica biflora	1		1	1		Taxodium ascendens					
Orontium aquaticum						Taxodium distichum					
Osmunda cinnamomea						Thalia geniculata	1				
Osmunda regalis						Thelypteris interrupta					
Panicum hemitomon	1	1	1	1		Thelypteris palustris					
Panicum repens	1	1				Triadenum virginicum					
Parthenocissus quinquefolia						Typha sp.	1	1	1	1	
Paspalidium geminatum	1	1	1	1		Urena lobata					
*Paspalum repens						**Urochloa mutica** (Brachiaria mutica)	1	1		1	
Paspalum urvillei						*Utricularia					
Peltandra sp.						*Utricularia floridana					
Pennisetum purpureum						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)		1			
Persea palustris						*Utricularia purpurea					
Persea glabra						*Utricularia radiata					
Phragmites australis	1					Vallisneria americana					
Phyla nodiflora						Vigna luteola					
Pinus elliottii						Vitis					
Pistia stratioides						Vitis rotundifolia					
Pluchea sp.						*Websteria confervoides					
Pluchea baccharis						**Wedelia trilobata** (Sphagneticola trilobata)					
Pluchae odorata						Woodwardia virginica					
*Polygonum						Xyris sp.					
*Polygonum glabrum (densiflorum)						Zizania aquatica					
*Polygonum hydropiperoides						Zizaniopsis milacea	1			1	
*Polygonum punctatum											
Pontederia cordata	1	1	1	1							
*Potamogeton illinoensis											
Ptilimnium capillaceum											
Quercus											
Quercus laurifolia											
Quercus nigra											
*Rhexia											
Rhynchospora microcephala											
Rhynchospora nitens											
Sabal palmetto											
Sacciolepis striata											
Sagittaria lancifolia	1	1	1	1							
Sagittaria latifolia											
Salix caroliniana	1	1	1	1							
Salvinia minima											
Sambucus canadensis											
Sambucus nigra											
Sapium sebiferum											
Sarcostemma clausum											
Schinus terebinthifolius											
*Schoenoplectus californicus	1	1	1	C							
*Schoenoplectus tabernaemontani (Scirpus validus)											
*Sesbania			1	1							
*Sesbania herbacea		1									
Solidago sp.											

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

STORET STATION NUMBER:	DATE (M/D/Y): 8/14/26	LAKE NAME: Tiger Lake	FIELD ID / NAME: Tiger
ECO-REGION:	COUNTY: Polk	SAMPLING LOCATION/DESCRIPTION: Tiger Lake	LAKE SIZE:

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 5	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 13	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 16	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 10	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 15	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 15	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 15	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	89	COMMENTS:

ANALYSIS DATE: 8/14/26	ANALYST: David Fiers	SIGNATURE: