

SAMPLE ID: see sticker in upper right MACROPHYTE ID: _____
 COUNTY: Polk WBID: _____
 LAKE SIZE: Small TIME: 1120
 SAMPLING AGENCY: FLDEP SW ROC

Site Name: Lake Beulah SW



6/9/21

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: _____						
☐	☐	☐	☐	☒ 80	☒ 20	☐	☐	Land Use Source & Year: _____						
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☒ No				
Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy														
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>5</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 6			<u>5</u> 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>6</u>		20 19 18 17 16			15 14 13 12 11			10 9 8 7 <u>6</u>			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>3</u>		20 19 18 17 16			15 14 13 12 11			10 9 <u>8</u> 7 6			5 4 <u>3</u> 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>29.9</u> <u>9.4</u> <u>11.73</u> <u>115.1</u> <u>118.1</u> <u>0.05</u> Mid-Depth: _____ Bottom: _____ Meter ID: _____							Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____						
Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☒ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____							Clarity: ☐ Clear ☐ Turbid ☒ Slightly Turbid 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							Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☐ ☐ ☒ ☐						
Weather Conditions: <u>Sunny ~ 89</u>							Additional Notes: SECCHI (M) <u>0.7</u> Total Station Depth (M) <u>0.9</u> VOB ☐						

SAMPLING TEAM:

Ben Paswater, Kevin Grace

SIGNATURE:

Ben Paswater

DATE:

6/9/21



Site Name: Lake Beulah SW

Waterbody:	County: Polk
Signature: Ben Pascoe	Date: 6/9/21
required. *Genera that may require lab verification*	
Lake units sampled (circle one group):	
1, 4, 7, 10 2, 5, 8, 11	
3, 6, 9, 12	

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.

SPECIES (A-F)	6	3	12	9	Collected? (✓)	SPECIES (G-L)	6	3	12	9	Collected? (✓)
Acer rubrum	✓	✓				Gordonia lasianthus					
Alternanthera philoxeroides	✓	✓	✓	✓		Habenaria repens					
Andropogon sp.						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata	D	D	D	D	
Baccharis sp.						Hydrocotyle sp.	✓	✓	✓	✓	
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri						*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica						Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus					
Centella asiatica						*Juncus marginatus					
Cephalanthus occidentalis						*Juncus megacephalus					
Ceratophyllum demersum						Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta						Landoltia punctata (Spirodela punctata)					
*Commelina						Lemna sp.					
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
* Cyperus alternifolius (C. involucratus)						Limnium spongia					
Cyperus articulatus						Limnophila sessiliflora					
Cyperus haspan						Liquidambar styraciflua					
*Cyperus lecontei						*Ludwigia arcuata					
*Cyperus polystachyos						*Ludwigia leptocarpa					
*Cyperus odoratus		✓				*Ludwigia linearis					
*Cyperus surinamensis						*Ludwigia octovalvis					
Cyrilla racemiflora						* Ludwigia peruviana					
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia	✓	✓	✓	✓	
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri											
Eclipta prostrata (E. alba)											
Egeria densa											
Eichhornia crassipes											
*Eleocharis baldwinii											
*Eleocharis		✓									
Eleocharis cellulosa											
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											



Site Name: Lake Beulah SW

Date:

Collected? (✓)

SPECIES (R-Z)

Collected?
(✓)

SPECIES (M-F)	(N)	SPECIES (R-Z)	(N)
Magnolia virginiana		*Rhexia	
Mayaca fluviatilis		*Rhynchospora comiculata	
Melaleuca quinquenervia		*Rhynchospora inundata	
Micranthemum glomeratum		Rhynchospora tracyi	
Micranthemum umbrosum		Ricciocarpus natans	
Mikania scandens		Sabal palmetto	
Mimosa pigra		Sacciolepis striata	
Myrica cerifera		*Sagittaria filiformis	
Myriophyllum aquaticum		*Sagittaria graminea	
*Myriophyllum heterophyllum		*Sagittaria isoetiformis	
*Myriophyllum laxum		Sagittaria lancifolia	
*Myriophyllum pinnatum		Sagittaria latifolia	
Myriophyllum spicatum		Salix caroliniana	
*Najas filifolia		Salvinia minima	
*Najas guadalupensis	✓	Sambucus canadensis	
*Najas minor	✓	Sapium sebiferum	
Nelumbo lutea	✓	Saururus cernuus	
Nitella spp.	✓	Schinus terebinthifolius	✓
Nuphar sp.	✓	*Schoenoplectus californicus (Cali bulrush)	✓
Nymphaea odorata		*Schoenoplectus pungens (three square)	✓
Nymphoides aquatica		*Schoenoplectus tabernaemontani (softstem)	✓
Nyssa sylvatica var. biflora		Scirpus cubensis (Oxycaryon cubense)	✓
Orontium aquaticum		Scirpus cyperinus	
Osmunda cinnamomea		*Sesbania	
Osmunda regalis		Solidago sp.	
Panicum hemitomon		Sparganium americanum	
Panicum repens		Spartina bakeri	
Paspalidium geminatum		Sphagnetocola trilobata (Wedelia)	
*Paspalum repens		Spirodela polyrhiza	
Paspalum urvillei		Taxodium sp.	✓
Peltandra sp.		Thalia geniculata	✓
Persea sp.		Thelypteris palustris	✓
Pennisetum purpureum		Triadenum virginicum	✓
Phragmites australis		Typha sp.	
Pinus elliotii		Urochloa mutica (Brachiaria mutica)	
Pistia stratioides		*Utricularia gibba (U. biflora)	
Pluchea sp.		*Utricularia floridana	
*Polygonum glabrum (densiflorum)		*Utricularia foliosa	
*Polygonum hydropiperoides		*Utricularia inflata	
*Polygonum punctatum		*Utricularia purpurea	
*Polygonum sp.	✓	*Utricularia cornuta	
Pontederia cordata		*Utricularia radiata	✓
*Potamogeton diversifolius		Vallisneria americana	✓
*Potamogeton illinoensis		*Websteria confervoides	✓
*Potamogeton pusillus		Wolffiella spp.	✓
*Potamogeton pectinatus		Woodwardia virginica	
Proserpinaca pectinata		Xyris sp.	
		Zizania aquatica	
		Zizaniopsis milacea	
		<i>Ruellia simplex</i>	✓

15 plants

Lake Beulah, WBID 1543B

1537A

1543A

Lake Beulah Dr

28.042, -81.969372

28.042016, -81.968545

28.041738, -81.96777

28.0411

28.

28.03

28.039212, -81.967

Florida

Main St

Sloan Ave

Orange St

Lime St

Sycamore St

Olive St

Webster Ave

Lime St

Hartsell Ave

Lake Beulah Dr

Lake Beulah Dr

28.041444, -81.96986

28.040725, -81.970012

28.040008, -81.969826

28.039448, -81.969339

28.039223, -81.968553

12

1

2

3

4

5

6

7

8

9

10

11

1543B