

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

entered 8/3/21 VID 82753 MID 11888

Waterbody: <u>Porto Pond</u>		County: <u>Jackson</u>		Date: <u>7/27/2021</u>									
Analyst: <u>AO'Neal J. Patronis</u>		Signature: <u>AO'Neal J. Patronis</u>		STORET: <u>WAS160R</u>									
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.													
SPECIES		2	5	8	11	Collected? (✓)	SPECIES		2	5	8	11	Collected? (✓)
Acer rubrum							Habenaria repens						
Alternanthera philoxeroides							Hydrilla verticillata						
Andropogon sp.							Hydrocotyle sp.						
Azolla filiculoides (A. caroliniana)							Hygrophila polysperma						
Baccharis sp.							*Hypericum fasciculatum						
Bacopa caroliniana							*Hypericum hypericoides						
Bacopa monnieri							*Hypericum myrtifolium						
Bidens laevis							Ilex cassine <u>myrtifolia</u>						
Bidens mitis							Ipomoea aquatica						
Blechnum serrulatum							Ipomoea sagittata						
Boehmeria cylindrica							Itea virginica						
Brasenia schreberi							Juncus effusus						
Cabomba caroliniana							*Juncus marginatus						
Casuarina equisetifolia							*Juncus megacephalus						
Centella asiatica							Juncus repens						
Cephalanthus occidentalis							*Juncus scirpoides						
Ceratophyllum demersum							Lachnanthes caroliniana						
Chara sp.							Leersia hexandra <u>Dichanthium erectifolium</u>						
Cladium jamaicense							<u>Dichanthium erectifolium</u>						
Cliftonia monophylla							Landoltia punctata (Spirodela punctata)						
Colocasia esculenta							Lemna sp.						
*Commelina							Leucothoe racemosa (Eubotrys racemosa)						
Crinum americanum							Limnium spongiosa						
*Cyperus alternifolius (C. involucratus)							Limnophila sessiliflora						
Cyperus articulatus							Liquidambar styraciflua						
Cyperus haspan							*Ludwigia arcuata						
*Cyperus lecontei							*Ludwigia leptocarpa						
*Cyperus polystachyos							*Ludwigia linearis						
*Cyperus odoratus							*Ludwigia octovalvis						
*Cyperus surinamensis							*Ludwigia peruviana						
Cyrilla racemiflora							*Ludwigia repens						
Decodon verticillatus							*Ludwigia						
Diodia virginiana							Luziola fluitans (Hydrochloa carolinensis)						
*Echinochloa crus-galli							Lyonia lucida						
*Echinochloa muricatum							Magnolia virginiana						
Echinochloa walteri							Mayaca fluviatilis						
Eclipta prostrata (E. alba)							Melaleuca quinquenervia						
Egeria densa							Micranthemum glomeratum						
Eichhornia crassipes							Micranthemum umbrosum						
*Eleocharis baldwinii							Mikania scandens						
*Eleocharis							Mimosa pigra						
Eleocharis cellulosa							Myrica cerifera						
Eleocharis equisetoides													
Eleocharis interstincta													
*Eriocaulon compressum sp.													
*Eriocaulon decangulare													
Eupatorium capillifolium													
*Fuirena													
Fuirena scirpoidea													
Gordonia lasianthus													

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:		Date:	
SPECIES	25811 Collected? (✓)	SPECIES	25811 Collected? (✓)
Myriophyllum aquaticum		Salix caroliniana	
*Myriophyllum heterophyllum		Salvinia minima	
*Myriophyllum laxum	11	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 odorata	1111	*Sesbania	
Nymphoides aquatica	1111	Solidago sp.	
Nyssa sylvatica var. biflora	1	Sparganium americanum	
Orontium aquaticum		Spartina bakeri	
Osmunda cinnamomea		Spirodela polyrhiza	
Osmunda regalis		Taxodium sp.	
Panicum hemitomon	1 CMI	Thalia geniculata	
Panicum repens		Thelypteris palustris	
Paspalidium geminatum		Triadenum virginicum	
*Paspalum repens		Typha sp.	
Paspalum urvillei		Urochloa mutica (Brachiaria mutica)	
Peltandra sp.		*Utricularia gibba (U. biflora)	
Persea sp.		*Utricularia floridana	CCCCC
Pennisetum purpureum		*Utricularia foliosa	
Phragmites australis		*Utricularia inflata	
Pinus elliotii		*Utricularia purpurea	
Pistia stratioides		*Utricularia cornuta	
Pluchea sp.		*Utricularia radiata	
*Polygonum glabrum (densiflorum)		Vallisneria americana	
*Polygonum hydropiperoides		*Websteria confervoides	
*Polygonum punctatum		Wedelia trilobata (Sphagneticola trilobata)	
*Polygonum		Wolffiella spp.	
Pontederia cordata		Woodwardia virginica	
*Potamogeton diversifolius		Xyris sp.	11
*Potamogeton illinoensis		Zizania aquatica	
*Potamogeton pusillus		Zizaniopsis milacea	
*Potamogeton pectinatus (Stuckenia pectinatus)			
Proserpinaca pectinata		Sabatia grandiflora	✓ 1111 ✓
*Rhexia sp. mariana (AO)	1111 ✓	Rhynchospora	✓ 1111 ✓
*Rhynchospora corniculata		Lycopodium alopec.	✓ 1111 ✓
*Rhynchospora inundata		Ilex glabra	1111
Rhynchospora tracyi	1111		
Ricciocarpus natans		Rhynchospora	✓
Sabal palmetto		Rhynchospora	✓
Sacciolepis striata		Scleria fascicularis	1111
*Sagittaria filiformis		sp. (immature)	
*Sagittaria graminea		R. pleiantha (AO)	
*Sagittaria isoetiformis		= 1	
Sagittaria lancifolia			
Sagittaria latifolia			

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 82753 **MACROPHYTE ID:** 11888 **LATITUDE:** 30.5888
COUNTY: Jackson **STORET #:** WAS16POR **LONGITUDE:** -85.27763
DATE: 7/27/2021 **TIME:** 12:12 CST **SAMPLING AGENCY:** FDEP/AEQA
SITE NAME: Porter Pond **WBID:** 578
FIELD ID/NAME: PORTER POND **LAKE SIZE:** 21 acres **RQ:**

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: NO LDI				
40	60									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			
20		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)			
20		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			
19		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 H2SO4 SER: # 120529 EXP: 10/20/2021 Water Level ☐ Low ☐ Normal ☒ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: 0.1 32.6 6.34 6.3 92.5 11.6 _____ Mid-Depth: 3.0 30.4 5.79 5.3 71.8 12.3 _____ Bottom: _____ _____ _____ _____ _____ _____ _____										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 ☐ Opaque ☐ 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										SECCHI (M) 3.9m Total Station Depth (M) 6.0 VOB ☐									
Abundance: Periphyton ☐ Absent ☒ Rare ☐ Common ☐ Abundant Nuisance Plants ☐ Absent ☒ Rare ☐ Common ☐ Abundant Submersed Plants ☐ Absent ☐ Rare ☐ Common ☒ Abundant Exotic Apple Snails ☒ Absent ☐ Rare ☐ Common ☐ Abundant										Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic									
Additional Notes: water level very high. preservation metals: pH < 2 HNO3 SER: # 120615 EXP: 6/03/2022																			
Weather Conditions: sun, hot w/ high 80s-90																			
SAMPLING TEAM: O'Neal, Patricia										SIGNATURE: [Signature]					DATE: 7/27/2021				

Page 1 of 2
last revised Jan 25, 2018

1

Collected By: A. O'Neal, D. Paton

Field Report Prepared By:

Sampling Agency:

A. O'Neal
FDEP/AGEAS

Location		Collection (comp begin or grab)		Eastern Composite end		Bottle Group(s)	
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Date	Time	Central	Date	Time	(See pg 2)
Porter Pond		7/27/21 12:12		Central			
WINSTORET #		Fresh surface water		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Salinity (ppt)		Comments	
Field ID		Comp		Collection (comp begin or grab)		Eastern Composite end	
WINSTORET #		Grab		Date		Date	
Latitude		Temp (C)		pH		Diss. Oxygen	
Longitude		Salinity (ppt)		Comments		Sample Depth	
Location		dd dms		Comp		Collection (comp begin or grab)	
Field ID		Grab		Date		Date	
WINSTORET #		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		A	
Latitude		32.6		pH		6.34	
Longitude		-85.27763		Sample Depth		.1	
Location		dd dms		Sal			