

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ **MACROPHYTE ID:** _____ **LATITUDE:** 30.58
COUNTY: Jefferson **STORET #:** 22030054 **LONGITUDE:** -83.9883
DATE: 9/23/2021 **TIME:** 1340 (WQ) **SAMPLING AGENCY:** FDEP
SITE NAME: Lake Miccosukee **WBID:** 791N
FIELD ID/NAME: MICCREP **LAKE SIZE:** 5205 **RQ:** 2021-09-20-22
N acres

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)														
<u>30</u>	<u>30</u>	<u>20</u>	<u>10</u>	<u>10</u>																	
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☐ No											
STORMWATER INPUTS <u>12</u>		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 <u>15</u>		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 <u>13</u>		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

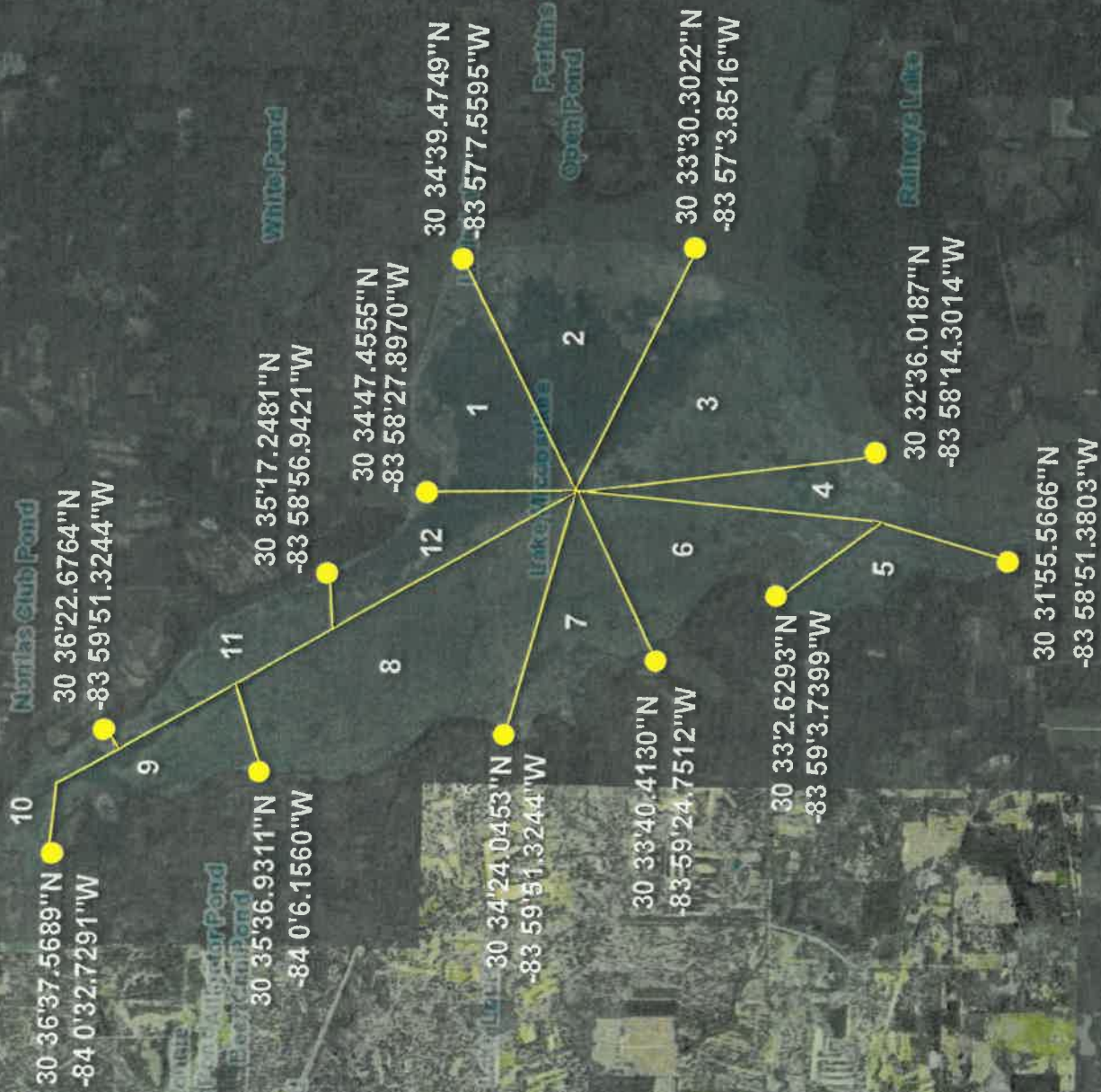
WATER / SUBSTRATE / BIOLOGICAL: SAMPLES AND OBSERVATIONS

Water: Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☒ pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>stickers</u> Exp. Date: _____ Alkalinity Sample Taken? ☒ Yes ☐ No <u>below</u> Water Level ☐ Low ☒ Normal ☐ High										Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____									
Meter Readings: Top: <u>.1</u> <u>25.8</u> <u>7.74</u> <u>29.5</u> <u>2.43</u> <u>27.3</u> <u>-</u> Mid-Depth: _____ Bottom: _____										Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____									
Meter ID: <u>YSI 154185</u>										Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid Color: ☐ Clear ☐ Tannic ☐ Green									
Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____										SECCHI (M) <u>.9</u> Total Station Depth (M) <u>1.6</u> VOB ☐									
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										Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic									
Weather Conditions: <u>60s + sunny; ideal</u>										Abundance: Absent Rare Common Abundant Periphyton ☐ ☒ ☐ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐									

Contains: 1:1 HNO3
 Lot No.: NA1105100
 Expires: 06/07/22
 See Safety Data Sheet (SDS)

Contains: Conc. H2SO4
 Lot No.: SA1105060
 Expires: 04/30/22
 See Safety Data Sheet (SDS)

NITRIC ACID 20-70%
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Request Number: RQ-2021-09-20-22

Reference Lake Sampling

Florida Department of Environmental Protection
Central Laboratory Submittal FormPage 1 of 2
last revised Jan 25, 2018

Customer: BSSP

Project ID: LAKESREF

Requester: Jennifer N. Placente

Field Report Prepared By:

Collected By:

AONEAL CHAMMUND MEDLES

Sampling Agency:

FDEP

AONEAL

Location		Lake Micoosulee		☒ Comp		Collection (comp begin or grab)		Date 9/23/2021		Time 1340		☒ Eastern		Composite end		Date		Time		Bottle Group(s)	
Field ID		MicoRef		☒ Grab		Matrix (type, e.g., Salt, Fresh, etc)		Fresh surface		Diss. Oxygen		29.5		☒ mg/L		Total Res. Chlorine				(See pg 2)	
WIN/STORET #				Temp (C)		25.8		pH		7.74		Sample Depth		0.1		☒ ft		Sp. Conductance (umho/cm)		27.3	
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp		Collection (comp begin or grab)		Date		Time		Eastern		Central		Composite end		Date		Time	
Field ID				☐ Comp		Matrix (type, e.g., Salt, Fresh, etc)						Diss. Oxygen		☐ mg/L		Total Res. Chlorine		☐ % sat		(mg/L)	
WIN/STORET #				Temp (C)				pH				Sample Depth		☐ ft		Sp. Conductance (umho/cm)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp		Collection (comp begin or grab)		Date		Time		Eastern		Central		Composite end		Date		Time	
Field ID				☐ Comp		Matrix (type, e.g., Salt, Fresh, etc)						Diss. Oxygen		☐ mg/L		Total Res. Chlorine		☐ % sat		(mg/L)	
WIN/STORET #				Temp (C)				pH				Sample Depth		☐ ft		Sp. Conductance (umho/cm)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp		Collection (comp begin or grab)		Date		Time		Eastern		Central		Composite end		Date		Time	
Field ID				☐ Comp		Matrix (type, e.g., Salt, Fresh, etc)						Diss. Oxygen		☐ mg/L		Total Res. Chlorine		☐ % sat		(mg/L)	
WIN/STORET #				Temp (C)				pH				Sample Depth		☐ ft		Sp. Conductance (umho/cm)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									
Location				☐ Comp		Collection (comp begin or grab)		Date		Time		Eastern		Central		Composite end		Date		Time	
Field ID				☐ Comp		Matrix (type, e.g., Salt, Fresh, etc)						Diss. Oxygen		☐ mg/L		Total Res. Chlorine		☐ % sat		(mg/L)	
WIN/STORET #				Temp (C)				pH				Sample Depth		☐ ft		Sp. Conductance (umho/cm)					
Latitude		☐ dd ☐ dms		Longitude		☐ dd ☐ dms		Salinity (ppt)				Comments									

Relinquished By:

Date/Time

Shipping Method

Number of Coolers Shipped:

Received By:

Date/Time

AONEAL

9/23/2021

hand delivery

1

9/28/21 1444

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Lake Michigan</u>		County: <u>Jefferson</u>		Date: <u>9/23/2021</u>							
Analyst: <u>Ashley O'Neal Chandler Hammon</u>		Signature: <u>Ashley O'Neal</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): 1, 4, 7, 10 <u>2, 5, 8, 11</u> 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	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					
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					
Cladium jamaicense						Landoltia punctata (Spirodela punctata)					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (Eubotrys racemosa)					
*Commelina						Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua					
Cyperus articulatus						*Ludwigia arcuata					
Cyperus haspan						*Ludwigia leptocarpa					
*Cyperus lecontei						*Ludwigia linearis					
*Cyperus polystachyos						*Ludwigia octovalvis					
*Cyperus odoratus						*Ludwigia peruviana					
*Cyperus surinamensis						*Ludwigia repens					
Cyrtia racemiflora						*Ludwigia virgata					
Decodon verticillatus						Luziola fluitans (Hydrochloa carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana					
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						Melaleuca quinquenervia					
Eclipta prostrata (E. alba)						Micranthemum glomeratum					
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes						Mikania scandens					
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis <u>submersa</u>						Myrica cerifera					
Eleocharis cellulosa											
Eleocharis equisetoides						<u>Lycopus</u>					
Eleocharis interstincta						<u>Hibiscus sp</u>					
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena <u>pumila</u>											
Fuirena scirpoidea											
Gordonia lasianthus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:						Date:					
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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 odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						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					
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.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						Psilocarya sp.					
Proserpinaca pectinata						Riccia (Pluitang)?					
*Rhaxia						Quercus					
*Rhynchospora corniculata						Erianthus giganteum					
*Rhynchospora inundata						Osmunda sp.					
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											