DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____

COUNTY: Leon STORET #: _____ LONGITUDE: _____

DATE: 9/2/21 TIME: 1430 SAMPLING AGENCY: FDEP

SITE NAME: Lake Iamonia WBID: _____

FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: 2021-08-16-17

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)
25	40	10		25			

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____ 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					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 16	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 16	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 # _____ Exp. Date: _____

Alkalinity Sample Taken? ☑ Yes ☐ No

Water Level ☐ Low ☐ Normal ☒ High SLIGHTLY

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:	0.2	29.7	7.53	4.11	53.9	31.3	
Mid-Depth:	1.1	26.3	6.76	2.32	23.7	31.6	
Bottom:	1.9	25.1	5.97	0.3	3.8	42.8	

Meter ID: _____

Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid

Color: ☐ Clear ☒ Tannic ☐ Green

SECCHI (M): 0.8 VOB ☐

Total Station Depth (M): 2.7

Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____

Sample Taken? ☒ Yes ☐ No

Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic

Biological Communities:

LVI Conducted? ☑ Yes ☐ No

Phytoplankton Sample Taken? ☑ Yes ☒ No KS

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	☒	☐	☐	☐

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)

Weather Conditions: have treated azolla in past and may still be PARTLY CLOUDY, CALM, ± 90F

SAMPLING TEAM: JACKSON, K SPRAGUE, MECKLES **SIGNATURE:** _____ **DATE:** 9-2-21

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: LAKE IAMONIA	County: LEON	Date: 9.2.21
Analyst: J. Jackson, M. Eucloe, K. Sprague	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	2	5	8	11	Collected? (√)
Acer rubrum	P	P	P	P	
Alternanthera philoxeroides	P			P	
Andropogon sp.	P			P	
~~Azolla filiculoides (A. caroliniana)~~ KS KS	P	P	P	P	√
Baccharis sp.					
Bacopa caroliniana	P		P		
Bacopa monnieri					
Bidens laevis					
Bidens mitis				P	
Blechnum serrulatum					
Boehmeria cylindrica					
Brasenia schreberi	P	P	P	P	
Cabomba caroliniana	P	P	P	P	
Casuarina equisitifolia					
Centella asiatica	P				
Cephalanthus occidentalis	P	P	P	P	
Ceratophyllum demersum		P	P		
Chara sp.					
Cladium jamaicense					
Cliftonia monophylla					
Colocasia esculenta					
*Commelina					
Crinum americanum					
***Cyperus alternifolius** (C. involucratus)					
Cyperus articulatus					
Cyperus haspan					
*Cyperus lecontei					
*Cyperus polystachyos					
*Cyperus odoratus	P		P	P	√
*Cyperus surinamensis					
Cyrilla racemiflora			P	P	
Decodon verticillatus	P	P	P	P	
Diodia virginiana					
*Echinochloa crus-galli					
*Echinochloa muricatum					
Echinochloa walteri			P	P	
Eclipta prostrata (E. alba)					
Egeria densa					
Eichhornia crassipes	P	P	P	P	
*Eleocharis baldwinii	P			P	
*Eleocharis					
Eleocharis cellulosa					
Eleocharis equisetoides					
Eleocharis interstincta					
*Eriocaulon compressum					
*Eriocaulon decangulare					
Eupatorium capillifolium					
*Fuirena					
Fuirena scirpoidea					
Gordonia lasianthus					

Cyperus ~~sp~~ KS surinamensis P
Cyperus haspans P
short bract

SPECIES	2	5	8	11	Collected? (√)
Habenaria repens	P			P	
Hydrilla verticillata	P	P			
Hydrocotyle sp.	P	P	P	P	
Hygrophila polysperma					
*Hypericum fasciculatum					
*Hypericum hypericoides					
*Hypericum myrtifolium					
Ilex cassine					
Ipomoea aquatica					
Ipomoea sagittata					
Itea virginica					
Juncus effusus					
*Juncus marginatus					
*Juncus megacephalus					
Juncus repens					
*Juncus scirpoides					
Lachnanthes caroliniana	P				
Leersia hexandra	P			P	√
Landoltia punctata (Spirodela punctata)					
Lemna sp.					
Leucothoe racemosa (Eubotrys racemosa)					
Limnobium spongia KS KS	P	P	P	P	√
Limnophila sessiliflora					
Liquidamber styraciflua	P		P	P	
*Ludwigia arcuata					
*Ludwigia leptocarpa	P		P	P	√
*Ludwigia linearis					
*Ludwigia octovalvis					
***Ludwigia peruviana**					
*Ludwigia repens					
*Ludwigia					
Luziola fluitans (Hydrochloa carolinensis)	P	P	P	P	
Lyonia lucida					
Magnolia virginiana		P			
Mayaca fluviatilis					
Melaleuca quinquenervia					
Micranthemum glomeratum					
Micranthemum umbrosum					
Mikania scandens					
Mimosa pigra					
Myrica cerifera					
Unk. square stem ← Ludwigia sp?	P	P	P		√
Ludwigia sphaerocarpa (native)					
Hibiscus moschеutos	P				
Cyperus blepharoleptos? KS					
~~Cyperaceae~~ ~~(Cyperus megacephala)~~	P		P	P	√
~~Dicanthelium~~				P	√
~~Diodia sp.? (purple flower)~~			P		
~~Eichhornia crassipes~~ √				P	
Eleocharis vivipara			P		√

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Lake Ianonia | Date: 9/2/2021

SPECIES	2	5	8	11	Collected? (√)
Myriophyllum aquaticum					
*Myriophyllum heterophyllum					
*Myriophyllum laxum					
*Myriophyllum pinnatum					
Myriophyllum spicatum					
*Najas filifolia					
*Najas guadalupensis					
*Najas minor					
Nelumbo lutea	P	P	P	P	
Nitella spp.					
Nuphar sp.			P		
Nymphaea odorata	D	D	D	D	
Nymphoides aquatica					
Nyssa sylvatica var. biflora		P	P		
Orontium aquaticum					
Osmunda cinnamomea					
Osmunda regalis					
Panicum hemitomon	P	P	P	P	
Panicum repens					
Paspalidium geminatum					
*Paspalum repens					
Paspalum urvillei					
Peltandra sp.					
Persea sp.					
Pennisetum purpureum					
Phragmites australis			P	P	
Pinus elliottii					
Pistia stratioides					
Pluchea sp.					
*Polygonum glabrum (densiflorum)					
Polygonum hydropiperoides	P	P	P	P	√
*Polygonum punctatum					
*Polygonum					
Pontederia cordata	P	P	P	P	
*Potamogeton diversifolius					
*Potamogeton illinoensis					
*Potamogeton pusillus					
*Potamogeton pectinatus (Stuckenia pectinatus)					
Proserpinaca pectinata					
*Rhexia	P				
*Rhynchospora corniculata					
*Rhynchospora inundata	P	P	P		
Rhynochospora tracyi					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata	P			P	
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia					
Sagittaria latifolia	P	P	P	P	
~~Sagittaria~~ sp.		P			√

SPECIES	2	5	8	11	Collected? (√)
Salix caroliniana	P		P		
Salvinia minima	P	P	P	P	
Sambucus canadensis					
Sapium sebiferum			P		
Saururus cernuus					
Schinus terebinthifolius					
*Schoenoplectus californicus					
*Schoenoplectus pungens					
*Schoenoplectus tabernaemontani (Scirpus validus)					
Scirpus cubensis (Oxycaryon cubense)					
Scirpus cyperinus					
*Sesbania	P			P	
Solidago sp.					
Sparganium americanum					
Spartina bakeri					
Spirodela polyrhiza				P KS	
Taxodium sp.	P	P	P	P	
Thalia geniculata					
Thelypteris palustris					
Triadenum ~~virginicum~~ walteri		P	P	P	
Typha sp.			P		
Urochloa mutica (Brachiaria mutica)					
*Utricularia gibba (U. biflora)	P	P	P	P	✓
*Utricularia floridana					
*Utricularia foliosa	P	P	P	P	
*Utricularia inflata					
*Utricularia purpurea					
*Utricularia comuta					
*Utricularia radiata					
Vallisneria americana					
*Websteria confervoides					
Wedelia trilobata (Sphagneticola trilobata)					
Wolffiella spp.					
Woodwardia virginica					
Xyris sp.	P			P	
Zizania aquatica					
Zizaniopsis milacea					
Nyssa Ogeeche		KS	P	P	
~~Spirodella~~ KS					
Landoltia punctata			P	P	
Salvinia Molesta			P		
Nyssa Aquatica			P		✓
Hydrolea quadrivalvis			P		✓
Azolla pinata	P	P	P	P	✓

Rhyncospora sp. P

~~Phragmites sp~~ P ✓

Request Number: RQ-2021-08-16-17
Reference Lake Sampling

Florida Department of Environmental Protection
Central Laboratory Submittal Form

last revised Jan 25, 2018

Customer: BSSP
Project ID: LAKESREF

Requester: Jennifer. N. Piacente
Collected By: K. Sprague
Field Report Prepared By: K. Sprague
Sampling Agency: FDEP

Location: Lake Iamonia LVI	☐ Comp ☑ Grab	Collection (comp begin or grab) Date 9/2/21 Time 14:30 (Eastern) Central		Composite end Date Time	Bottle Group(s) (See pg 2): A
Field ID: Lake Iamonia	Matrix (type, e.g., Salt, Fresh, etc): Fresh	Diss. Oxygen 53.9% / 4.11mg/L ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L): —	
WIN/STORET #	Temp (C): 29.7	pH: 7.53	Sample Depth: 0.2 ☐ ft ☑ m	Sp. Conductance (umho/cm): 31.3	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt): —	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	Sp. Conductance (umho/cm)	
Latitude ☐ dd ☐ dms / Longitude ☐ dd ☐ dms	Salinity (ppt)	Comments			
Location	☐ Comp ☐ Grab	Collection (comp begin or grab) Date Time Eastern Central		Composite end Date Time	Bottle Group(s)
Field ID	Matrix (type, e.g., Salt, Fresh, etc)	Diss. Oxygen ☐ mg/L ☐ % sat		Total Res. Chlorine (mg/L)	
WIN/STORET #	Temp (C)	pH	Sample Depth ☐ ft ☐ m	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
Kara Sprague	9/2/21 16:15	—	—	[signature]	9/2/2021 1620

Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	ALKALINITY W-CL-IC W-COLOR W-F W-SO4-IC					
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	ICE	Enter Number of Bottles Sent to Lab
	CHLSUITE-W					
Group: A	Bottle Type:	BP-1L	# of Bottles: 1	Preservative:	Lugols	Enter Number of Bottles Sent to Lab
	DTY-QN-C PKD-QN-C					
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	HNO3	Enter Number of Bottles Sent to Lab
	W-ICP W-ICPMS				Lot: NA1105100 exp. 6/7/22	
Group: A	Bottle Type:	P-500ML	# of Bottles: 1	Preservative:	ICE And H2SO4	Enter Number of Bottles Sent to Lab
	W-NH3 W-NO2NO3 W-S-A-TP W-TKN				Lot: SA1105060 exp. 4/30/22	
Group: A	Bottle Type:	P-125ML	# of Bottles: 1	Preservative:	FILTER-ICE	Enter Number of Bottles Sent to Lab
	W-PO4-F