



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:		LAKE ALICE CENTER				Sample Date:		9/1/2022	
WIN / Field ID:	20020052	ORG ID:	21FLA	ENR:	-	Latitude:	29.64272		
County:	Alachua	WBID:	2719A	LAKE		Longitude:	-82.36163		
Receiving Body of Water:						-	RQ-	2022-06-27-08	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Brian Davis		x		x	x
Katherine Halbert	x		x		

Sampling Equipment			
x	Sample Container	Carboy	
	Dipper	Van Dorn	
	Syringe	x	Pole NA
Syringe Lot#		Filter Lot#	175533
Secchi Equipment ID:		D#3	
Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
Depth Measured With Meter			

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	No
Meter ID:	Bruce

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
EST	1105	2.129	0.3	3.16	41.3	29.4	6.87	0.8	222.3	0.1
	1107		1.629	0.25	3.2	28	6.57		224.4	0.1

Biological Samples Collected: None

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
				Type	Lot#	Expiration Date	pH Check
Microbiology							
Chlorophyll	CHLSUITE-W			ICE			
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE			
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE			
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA214160	06/02/23
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1105100	06/07/22
Organics (LC)	W-E8321-DI	W-E8321-MS					
Macroinvertebrates							
Organics (GC)	W-CT-CI-R	W-PCL-TQ-R	W-PCB-TQ-R	Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
	W-PSNP-TQ	W-TR-SQ-R					
Molecular							
Periphyton							
Phytoplankton							
BOD							
Other(s)							
Field Comments:							
Comments on COC:							
Relinquish Date:	09/08/2022	Signature:					

LIMS EVENT ID: _____ WIN Import ID: _____

Enter Field Parameters, Verify Station ID In LIMS DMT: _____ QC Station ID, Field Parameters In LIMS DMT: _____

Save Field Sheets on Network: _____ Migrate Data to WIN: _____

(Initials/Date) (Initials/Date)

MACROPHYTE ID: _____
STORET #: 20020052
TIME: 1105

LATITUDE: _____
LONGITUDE: _____
SAMPLING AGENCY: NEROC FPEP
WBID: 2719A
LAKE SIZE: _____ RQ: 2022-06-27-08

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: _____													
<u>30</u>			<u>20</u>	<u>20</u>	<u>20</u>		<u>10</u>	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>10</u>		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)										
<u>11</u>		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										
<u>10</u>		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 ☐ No pH<2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>SA2145160</u> Exp. Date: <u>6/2/23</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High								Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____																																								
Meter Readings: <table border="1"><thead><tr><th>Depth (M)</th><th>Temp. (°C)</th><th>pH (SU)</th><th>D.O. (MG/L)</th><th>D.O. Sat. (%)</th><th>Cond. (UMHO/CM)</th><th>Salinity (PPT)</th></tr></thead><tbody><tr><td>Top: <u>0.3</u></td><td><u>29.4</u></td><td><u>6.87</u></td><td><u>3.16</u></td><td><u>41.3</u></td><td><u>222.3</u></td><td><u>0.1</u></td></tr><tr><td>Mid-Depth: <u>1.6</u></td><td><u>28</u></td><td><u>6.57</u></td><td><u>0.25</u></td><td><u>3.2</u></td><td><u>224.4</u></td><td><u>0.1</u></td></tr><tr><td>Bottom: _____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td><td>_____</td></tr></tbody></table>								Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Top: <u>0.3</u>	<u>29.4</u>	<u>6.87</u>	<u>3.16</u>	<u>41.3</u>	<u>222.3</u>	<u>0.1</u>	Mid-Depth: <u>1.6</u>	<u>28</u>	<u>6.57</u>	<u>0.25</u>	<u>3.2</u>	<u>224.4</u>	<u>0.1</u>	Bottom: _____	_____	_____	_____	_____	_____	_____	Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____												
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Bottom: _____	_____	_____	_____	_____	_____	_____																																										
Meter ID: _____								Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid																																								
Sediment Type: (may check more than one) ☐ Sandy ☒ Organic fibrous (peaty, CPOM) ☐ Vegetated ☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								Color: ☒ Clear ☐ Tannic ☐ Green																																								
Sample Taken? ☐ Yes ☒ No								SECCHI (M) <u>0.8</u> Total Station Depth (M) <u>2.1</u>																																								
Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic								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 ☐ No Active Vegetation Mgmt? ☒ Yes ☐ No ☐ Don't Know								Abundance: <table border="1"><thead><tr><th></th><th>Absent</th><th>Rare</th><th>Common</th><th>Abundant</th></tr></thead><tbody><tr><td>Periphyton</td><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td>Nuisance Plants</td><td>☐</td><td>☐</td><td>☒</td><td>☐</td></tr><tr><td>Submersed Plants</td><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr><tr><td>Exotic Apple Snails</td><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr></tbody></table>									Absent	Rare	Common	Abundant	Periphyton	☒	☐	☐	☐	Nuisance Plants	☐	☐	☒	☐	Submersed Plants	☒	☐	☐	☐	Exotic Apple Snails	☒	☐	☐	☐	Additional Notes:							
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Weather Conditions: <u>Light Rain, Cloudy</u>																																																
SAMPLING TEAM: <u>Brian Davis, Katie Helbert</u>								SIGNATURE: <u>B-D</u>				DATE: <u>9/8/22</u>																																				

85479

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

STATION NUMBER: 2002 0052	DATE (M/D/Y) 9/8/22	LAKE NAME Lake Alice		FIELD ID / NAME:		
COUNTY: Alachua	SAMPLING LOCATION/DESCRIPTION: Lake Alice Center		LAKE SIZE:			
PARAMETER	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	
HYDROLOGY	☐		☐		☒	
Color	Very clear, uncolored water (benthic sampling appropriate) ☐		Water somewhat tannin stained (benthic sampling appropriate) ☒		Dark, discolored water (water color 20 PCU or higher) ☐	
	Optimal		Suboptimal		Marginal	
Secchi	Secchi > 3 m		Secchi (m)		Poor	
☒	20	19	18	17	16	
	15	14	13	12	11	
	10	9	8	7	6	
	5	4	3	2	1	
Vegetation Quality	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	
☒	20		19		18	
	17		16		15	
	14		13		12	
	11		10		9	
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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	
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	17		16		15	
	14		13		12	
	11		10		9	
	8		7		6	
	5		4		3	
	2		1			
Bottom Substrate Quality	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	
☒	20		19		18	
	17		16		15	
	14		13		12	
	11		10		9	
	8		7		6	
	5		4		3	
	2		1			
Lakeside Adverse Human Alterations	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	
☒	20		19		18	
	17		16		15	
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	8		7		6	
	5		4		3	
	2		1			
Upland 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	
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	8		7		6	
	5		4		3	
	2		1			
Adverse Watershed Land Use	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	78		COMMENTS:			
ANALYSIS DATE:	9/8/22		ANALYST:		SIGNATURE: Brian Davis	

SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	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)											
Proserpinaca pectinata						Salvinia minima	✓				
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto	✓		✓	✓							
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											