



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REFERENCE LAKES Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes No

WIN Station Name:	LAKE ASHBY CENTER				Sample Date:	9/28/2023	
WIN / Field ID:	20010492	ORG ID:	21FLCEN	ENR:	-	Latitude:	28.93053
County:	VOLUSIA	WBID:	2925A	LAKE		Longitude:	-81.09444
Receiving Body of Water:	-				RQ-	2023-08-28-17	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Terry Riordan		x		x	x
Jessie Atchison	x		x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
x	Syringe		Pole
Syringe Lot# 2327923		Filter Lot# 17769663	
Secchi Equipment ID:		Knothead	
Collection Method			
	Wading		Canoe/Kayak
	From Shore		Electric Motor
		x	Gasoline Motor
Depth Measured With		Secchi	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Craw Daddy
Depth Gauge ID:	depth_gauge

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	1252	2.5	0.3	6.72	86.1	28.2	6.89	0.3	104.2	0.05
	1258		2	6.66	85.3	28.2	6.82		104.2	0.05
	1258		2	6.66	85.3	28.2	6.82		104.2	0.05

Biological Samples Collected: None

SBIO Visit ID: 88054 HA ID: RPS ID: Macrophyte ID: 12598 LIMS Sample ID In The Macrophyte Module: 2441725

Parameter Suite	Parameter Methods (LIMS Test Codes)	Type	Lot#	Expiration Date	pH Check	
Microbiology						
Chlorophyll	CHLSUITE-W	ICE				
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS	ICE				
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS	ICE				
Filtered Nutrients	W-PO4-F Field Filtered 0.45 µm Filter	ICE	Syringe Lot#:2327923 ; Filter Lot#:17769663			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	SA3013020	01/25/2024	H2SO4 pH<2
Metals	W-ICPMS W-ICP W-HARD	ICE	HNO3**	NA3123030	05/10/2024	HNO3 pH<2
Organics (LC)	W-E8321-DI W-E8321-MS		MCAA***			
Macroinvertebrates						
Organics (GC)	W-PSNP-TQ W-TR-SQ-R	Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular						
Periphyton						
Phytoplankton	DTY-QN-C PKD-QN-BV	Ice				
BOD						
DOC						
Other(s)			SyringeLot#		FilterLot#	
Field Comments:	85 and cloudy/ raining					
Comments on COC:	Please log in PKD-QN-BV & DTY-QN-C under a separate event with priority 12, Bottle Group - B.					
Relinquish Date:	09/28/2023	Signature:				

LIMS EVENT ID: CEN-DIST-2023-09-29-01

WIN Import ID: 44067

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 11/3/23

QC Station ID, Field Parameters In LIMS DMT: VLS 11/8/23

Save Field Sheets on Network: KWM 12/1/23 (Initials/Date)

Migrate Data to WIN: KWM 12/1/23 (Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____
COUNTY: Volusia
DATE: 9/28/23
SITE NAME: Lake Ashby
FIELD ID/NAME: Lake Ashby

MACROPHYTE ID: _____
STORET #: 20010492
TIME: 1100

LATITUDE: 28.93056
LONGITUDE: -81.09444
SAMPLING AGENCY: FDEP
WBID: 2925A
LAKE SIZE: _____ RQ: 2023-08-28-17

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>85</u>		<u>10</u>		<u>5</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>18</u>		20 19 <u>18</u> 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>18</u>		20 19 <u>18</u> 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>15</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:								Water Odors: ☒ Normal	
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No								☐ Sewage ☐ Petroleum ☐ Other _____	
Color Sample Taken? ☒ Yes ☐ No Lot # _____ Exp. Date: _____								Water Surface Oils: ☒ None	
Alkalinity Sample Taken? ☒ Yes ☐ No								☐ Sheen/Slick ☐ Glob ☐ Other _____	
Water Level ☐ Low ☒ Normal ☐ High									
Meter	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Clarity:	Color:
Readings:								☐ Clear ☒ Turbid ☐ Slightly Turbid	☐ Clear ☒ Tannic ☐ Green
Top:	<u>0.3</u>	<u>28.2</u>	<u>6.89</u>	<u>6.72</u>	<u>86.1</u>	<u>104.2</u>	<u>0.05</u>		
Mid-Depth:	<u>2.0</u>	<u>28.2</u>	<u>6.53</u>	<u>6.66</u>	<u>85.3</u>	<u>104.2</u>	<u>0.05</u>		
Bottom:	<u>2.0</u>	<u>28.2</u>	<u>6.53</u>	<u>6.66</u>	<u>85.3</u>	<u>104.2</u>	<u>0.05</u>		
Meter ID: <u>6.82 JH</u>								SECCHI (M) <u>0.3</u>	Total Station Depth (M) <u>2.5</u>
								VOB ☐	

Sediment Type: (may check more than one)				Sample Taken? ☐ Yes ☒ No		Sediment Odors:	
☐ Sandy	☐ Organic fibrous (peaty, CPOM)	☐ Vegetated	☐ Sand/Silt	☒ Organic smooth (muck)	☐ Other (Specify): _____	☐ Normal	☐ Other (Specify): _____
				☐ Anaerobic			
Biological Communities:				Abundance:			
LVI Conducted? ☒ Yes ☐ No				Absent Rare Common Abundant			
Phytoplankton Sample Taken? ☒ Yes ☐ No				Periphyton ☐ ☐ ☒ ☐			
Sample Preserved? ☒ Yes ☐ No				Nuisance Plants ☐ ☐ ☒ ☐			
Lot #: _____ Exp Date: _____				Submersed Plants ☐ ☒ ☐ ☐			
Algal Bloom/Algal ID Sample Taken? Yes ☒ No ☐				Exotic Apple Snails ☒ ☐ ☐ ☐			
Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know							
Additional Notes: _____							

Weather Conditions :

85% cloudy / raining
SAMPLING TEAM: JA & TR SIGNATURE: [Signature] DATE: 9/28/23

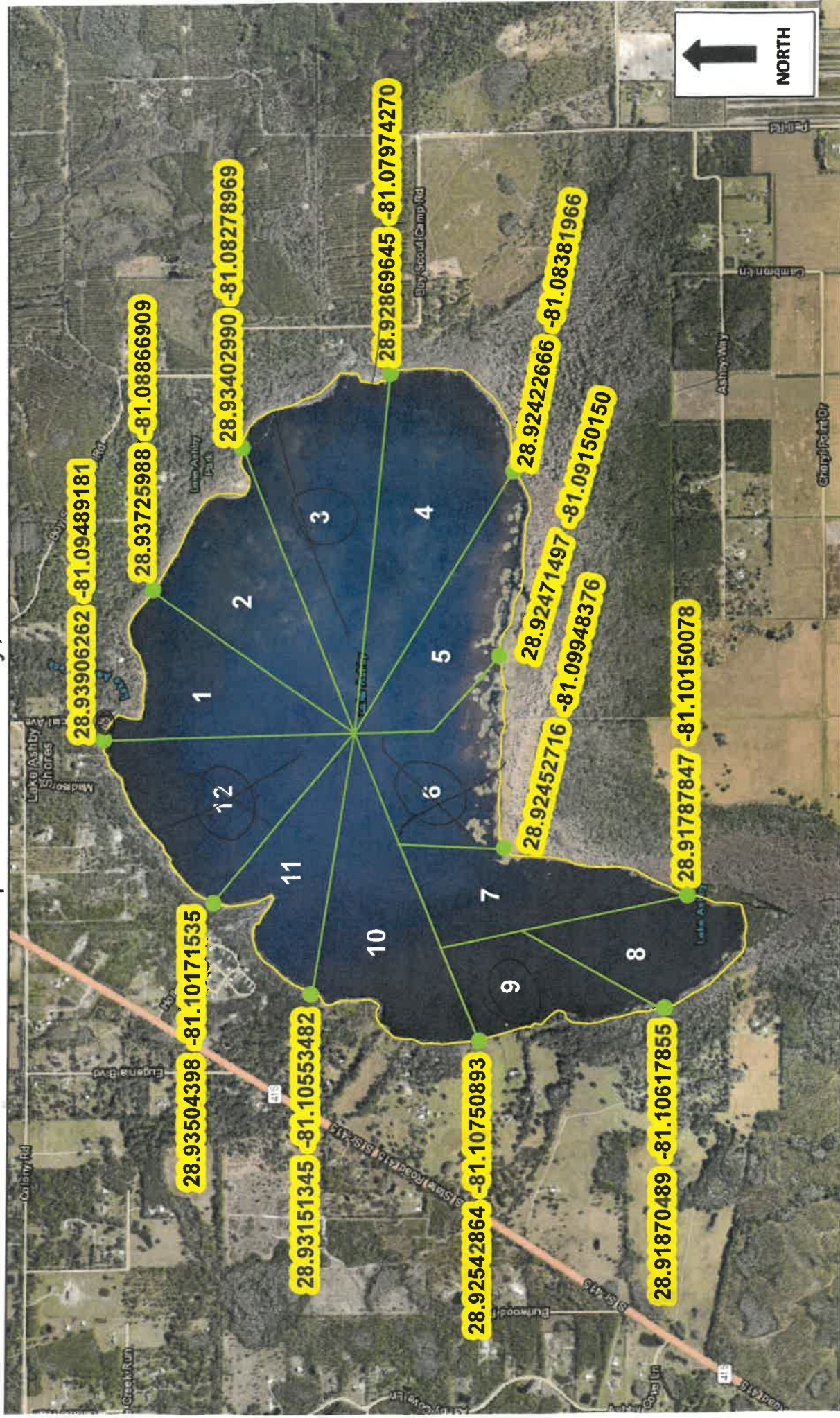
DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>LAKE Ashby</u>		County: <u>Volusia</u>		Date: <u>9/28/23</u>	
Analyst: <u>Jessie Atchison & Terry Riddan</u>		Signature: <u>Jessie Atchison</u>		STORET: <u>20010492</u>	
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 2, 5, 8, 11 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		Collected? (✓)		SPECIES	
Acer rubrum		3 6 9 12		Fraxinus sp.	
Alternanthera philoxeroides		3 6 9 12		Fuirena scirpoidea	
Amaranthus australis				Gordonia lasianthus	
Andropogon sp.				Habenaria repens	
Azolla filiculoides		/		Hibiscus coccineus	
Baccharis sp.				Hibiscus grandiflorus	
Bacopa caroliniana				Hydrilla verticillata	
Bacopa monnieri				Hydrocotyle sp.	
Bidens alba				Hygrophila polysperma	
Bidens laevis				Hymenocallis sp.	
Bidens mitis				*Hypericum fasciculatum	
Boehmeria cylindrica		/		*Hypericum hypericoides	
Brasenia schreberi				*Hypericum myrtifolium	
Cabomba caroliniana				Ilex cassine	
Canna sp.				Ipomoea aquatica	
Centella asiatica				Ipomoea sagittata	
Cephalanthus occidentalis		/ / / /		Itea virginica	
Ceratophyllum demersum		/ / / /		Juncus effusus	
Chara sp.				*Juncus marginatus	
Cicuta maculata				*Juncus megacephalus	
Cinnamomum camphora				Juncus repens	
Cladium jamaicense				*Juncus scirpoides	
Colocasia esculenta				Kosteletzkya pentacarpos	
*Commelina				Lachnanthes caroliniana	
Crinum americanum				Leersia hexandra	
Cyperus articulatus		/ / / /		Landoltia punctata (Spirodela punctata)	
Cyperus haspan		/ / / /		Lemna sp.	
*Cyperus involucratus				Leucothoe racemosa (Eubotrys racemosa)	
*Cyperus lecontei				Limnobia spongia	
*Cyperus odoratus				Limnophila sessiliflora	
*Cyperus polystachyos				Liquidambar styraciflua	
*Cyperus surinamensis				*Ludwigia arcuata	
Cyrilla racemiflora				*Ludwigia grandiflora	
Decodon verticillatus				*Ludwigia hexapetala	
Diodia virginiana		/		*Ludwigia leptocarpa	
*Echinochloa crus-galli				Ludwigia (native)	
*Echinochloa muricata				*Ludwigia octovalvis	
Echinochloa walteri				*Ludwigia peruviana	
Eclipta prostrata		/		*Ludwigia repens	
Eichhornia crassipes		/		Ludwigia suffruticosa	
*Eleocharis				Luziola fluitans	
Eleocharis cellulosa				Magnolia virginiana	
*Eleocharis elongata				Mayaca fluviatilis	
Eleocharis equisetoides				Melaleuca quinquenervia	
Eleocharis interstincta				Melaleuca viminalis	
Eleocharis submersed viviparous				Micranthemum glomeratum	
*Eriocaulon compressum				Micranthemum umbros	
*Eriocaulon decangulare				Mikania scandens	
Eupatorium capillifolium		/		Myrica cerifera (Morella cerifera)	

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Lake Ashby</u>				Date: <u>9/28/23</u>							
SPECIES	3	6	9	12	Collected? (✓)	SPECIES	3	6	9	12	Collected? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum (Triadica sebifera)					
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolia					
*Najas guadalupensis						*Schoenoplectus californicus					
Nelumbo lutea						*Schoenoplectus pungens					
Nitella spp.						*Schoenoplectus tabernaemontani					
Nuphar advena						Scirpus cubensis (Cyperus blepharoleptos)					
Nymphaea mexicana						Scirpus cyperinus					
Nymphaea odorata						*Sesbania					
Nymphoides aquatica						Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea (Osmundastrum cinnamomeum)						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon						Thalia geniculata					
Panicum repens						Thelypteris interrupta					
Paspalidium geminatum						Thelypteris palustris					
*Paspalum repens						Triadenum virginicum (Hypericum virginicum)					
Paspalum urvillei						Typha sp.					
Peltandra sp.						Urochloa mutica					
Persea sp.						*Utricularia foliosa					
*Persicaria glabra (densiflora)						*Utricularia floridana					
Persicaria hirsuta						*Utricularia gibba					
*Persicaria hydropiperoides						*Utricularia inflata					
*Persicaria punctata						*Utricularia purpurea					
*Persicaria <u>punctata</u>						*Utricularia radiata					
Pennisetum purpureum (Cenchrus purpureus)						*Utricularia resupinata					
Phragmites australis (P. berlandieri)						Vallisneria americana					
Pinus elliotii						*Websteria confervoides (Eleocharis confervoides)					
Pistia stratiotes						Wedelia trilobata (Sphagneticola trilobata)					
Pluchea sp.						Wolffiella sp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis miliacea					
*Potamogeton pectinatus (Stuckenia pectinatus)						Vigna lutea					
Proserpinaca pectinata						Diospyros (persimmon)					
*Rhexia						Ulmus (elm)					
*Rhynchospora corniculata						Aster carolinianus					
*Rhynchospora inundata						Phylla nodiflora					
Rhynchospora nitens											
Ricciocarpos natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

LVI Map for Lake Ashby, WBID 2925A



1:24,130
 0 0.17 0.35 0.7 mi
 0 0.28 0.55 1.1 km

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