



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Locklin Lake Center

Date: 7/21/2021

WIN/Field ID: G4NW0437

WBID: 24AF

ENR:

Latitude: 30.62786

County: SANTA ROSA

Org ID: 21FLPNS

Longitude: -87.04862811

Receiving Body of Water: -

RQ- 2021-07-19-53

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Frank Butera		x		x	x
☒	Myranda Butler	x		x		
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Meter	
Secchi Equipment ID:	
Collection Method	
☐ Wading	☒ Canoe/Kayak
☐ From Shore	☐ Electric Motor
☐ Other	☐ Gasoline Motor

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# 155077 (PRODSS)			
Photos: NO	Flow: NA	Tide:	Tide Times: High: Low:						
Biological Samples Collected: ☐ None ☒ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:									
SBIO ID Numbers: Visit ID 82717. HA ID 16904. Macro ID 11879									
Notes: Biology collected. COULDN'T SEE BOTTOM DUE TO LOTS OF VEG ON BOTTOM BUT CRYSTAL CLEAR WATER. VOB RECORDED DUE TO CLARITY OF WATER AT SITE. Moderate rains and lightning during sampling event; less than 0.2 inches.									

Duplicate Sample

Time Zone: CEN	Time:	Field ID: N/A	(WIN ID_DUP)
WIN DMT Activity ID:			

Blank

Time Zone:	Time:	Field ID:	(Blank Type_DDDMMYYY)
DI Source:	Location:		
DI Type:	Equipment ID:		
DI Container (Name/ID):		DI Container Type:	

LIMS EVENT ID: 2264206 WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT: (Initials/Date) QC Station ID, Field Parameters In LIMS DMT: (Initials/Date)

Scan/Save Field Sheets FB, 07/27/2021 Migrate Data to WIN: (Initials/Date) Verify Data In WIN: (Initials/Date)



RQ-2021-07-19-53

Customer: WQAP

Project ID: SMP

Collected By: Frank Butera, Myranda Butler

Field Report Prepared By: Frank Butera

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4NW0437

Location: Locklin Lake Center

Comments:

Matrix: Fresh

(Check one)

☒ GRAB☐ COMPOSITE

Date	Time	DO (mg/L)	DO (%SAT)	Temp. (C°)	pH	Sample Depth (m)	Secchi Disk (m)	Total Depth (m)	Sp COND (µmhos/cm)	Salinity (PPT)		
	1030 CEN	12.74	156.7	26.1	6.12	0.3	0.7 ☒ VOB (S)	0.7	47	0.02		
7/21/2021												
	CEN											
Parameter Suite		Parameter Methods				Preservation		pH Check	# Bottles sent to Lab	Bottle Group		
Preserved Nutrients (P-500ML)		☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP				☒ Ice ☒ H2SO4*		☒ <2	1	A		
		Lot #	SA0353110		Exp:	1/11/22						
Metals (P-500ML)		☐ W-ICPMS ☐ W-ICP ☐ W-HARD				☐ Ice ☐ HNO3*		☐ <2				
		Lot #			Exp:							
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #										
		Syringe Lot #										
Chlorophyll (BP-1L)		☒ CHLSUITE-W				☒ Ice			1	A		
Physical/Aggregate (Fresh) (P-1L)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice			1	A		
Physical/Aggregate (Marine) (P-1L)		☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates (PJ-2L)		☐ MI-FW-QLDC	Formalin Lot #			☐ Formalin						
Periphyton (PT-50ML)		☐ ALGAE-ID				☐ Ice						
Microbiology (Contract Lab Bottle)		☐ E Coli ☐ F Coli ☐ Enterococci				☐ Ice						
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3				☐ Ice						
		☐ PCR-GULL2 ☐ PCR-GFD ☐				☐ Ice						
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice						
Pesticides (BG-500ML) (BG-1L)		W-E8321-DI	WE8321-MS	W-PSNP-TQ	W-CT-CL-R	☐ Ice						
Phytoplankton/Periphyton		W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA** Buffer Solution)			☐ Ice						
				DTY-QN-C		☐ Ice						
				PKD-QN-BV								
Name: Frank Butera Myranda Butler					Signature:			Date: 07/21/2021				

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

Site Name Locklin Lake Center

Date: 07/21/2021

Field ID G3NW0437 Storet G3NW0437

Project: SMP / TMDL Studies

Visit ID 82717

RQ: 2021-07-19-53

Macro ID 11878

LIMS ID: 2264206

HA ID 16904

WBID: 24AF

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB, 7/27/21

☒ Date and Initial QA: SS, 07/28/2021 HA Score 36

☒ LVI entered in SBIO Initial FB, 7/27/21

☒ Date and Initial QA: 01/24/2022 SS/FB

☐ Plants getting verified

☐ Date submitted: In House

☐ Plants verified

☐ Date returned: _____

☒ VPDB authorized in SBIO

☒ Date and Initial: 01/24/2022 FB

☒ VPDB score: 21

☒ If SMP, scanned into database

Notes: Bioassessment. 2 plant taxa to be verified by Tallahassee. 01/20/2022 Plant verifications not possible.

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 82717 MACROPHYTE ID: 11878 LATITUDE: N 30.62786
 COUNTY: Santa Rosa STORET #: 64NW0437 LONGITUDE: W 87.408704863
 DATE: 7/21/2021 TIME: 10:30 CTZ SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Locklin Lake Catch WBID: 24AF
 FIELD ID/NAME: 64NW0437 LAKE SIZE: 10.3 RQ: 2021-07-19-53

WATERSHED / LAKESIDE FEATURES Lims ID: 2264206

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural ☐ Silviculture ☒ Field/Pasture ☐ Agricultural ☐ Residential ☒ Commercial ☒ Industrial ☐ Other (Specify) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u>N/A</u>	
Local Watershed Erosion (select one) : ☐ None ☐ Slight ☐ Moderate ☒ Heavy				Artificially Impounded ☒ Yes ☐ No	
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy				Land Use Source & Year:	
STORMWATER INPUTS <u>3</u>	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 <u>3</u> 2 1	
LAKESIDE ALTERATIONS <u>3</u>	Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 18 17 16	Moderate disturbance visible - structures, roads or other (10%-49% lakeside affected) 15 14 13 12 11	Many structures, roads or other human disturbance visible (50%-70% lakeside affected) 10 9 8 7 6	Highly developed or disturbed (>70% of lakeside affected) 5 4 <u>3</u> 2 1	
BUFFER ZONE <u>3</u>	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6	< 29% of shoreline with >18m buffer 5 4 <u>3</u> 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				Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____	
Meter Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Readings: Top: <u>0.3</u> <u>26.1</u> <u>6.12</u> <u>12.74</u> <u>156.7</u> <u>47</u> <u>0.02</u> Mid-Depth: _____ Bottom: _____				Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____	
Meter ID: <u>155077</u> <u>10:30 CTZ</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): _____				Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic	
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				Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☒ Nuisance Plants ☐ ☐ ☐ ☒ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐	
Weather Conditions: <u>Moderate Rain & lightning during sampling, 2021. Bottom not visible @ station due to thick vegetation, visible @ where plant were absent.</u>				Additional Notes: <u>*Water turbid after rain event.</u>	
SAMPLING TEAM: Frank Butera, <u>Myranda Butler</u>				SIGNATURE: <u>[Signature]</u> DATE: <u>7/21/2021</u>	

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

STORET STATION NUMBER: G4NW0437	DATE (M/D/Y) 7/21/2021	LAKE NAME Locklin Lake		FIELD ID / NAME G4NW0437	
WBID: 24 AF	COUNTY: Santa Rosa	SAMPLING LOCATION/DESCRIPTION: Locklin Lake Center		LAKE SIZE: 10.3 Acres	
PARAMETER HYDROLOGY	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 ☐	Impounded, hydrology of system artificially controlled ☒	
Color	Very clear, uncolored water (benthic sampling appropriate) ☒	Water somewhat tannin stained (benthic sampling appropriate) ☐	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐	
	Optimal	Suboptimal	Marginal	Poor	
Secchi ☐ 20	Secchi >3 m Or ☒ VOB	3 2.6 2.2 1.8 1.4	1.0 0.9 0.8 0.7 0.6	0.5 0.4 0.3 0.2 0.1	
Vegetation Quality ☐ 1	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa 20 19 18 17 16	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants 15 14 13 12 11	Large masses (21%- 40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats 10 9 8 7 6	Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed) Hydrilla, Lemna 5 4 3 2 1	
Stormwater Inputs ☐ 3	Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 19 18 17 16	Some direct stormwater inputs (ditches, pipes, cultivated vegetation < 10%) but good BMPs in place 15 14 13 12 11	Moderate direct inputs of stormwater (ditches, pipes, cultivated vegetation 11%-50%) but few BMPs in place 10 9 8 7 6	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place 5 4 3 2 1	
Bottom Substrate Quality ☐ 2	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present 20 19 18 17 16	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present 15 14 13 12 11	Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom 10 9 8 7 6	Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom 5 4 3 2 1	
Lakeside Adverse Human Alterations ☐ 3	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%) 20 19 18 17 16	Moderate disturbance visible (structures, roads or other), 10%-49% lakeside affected 15 14 13 12 11	Many structures, roads or other human disturbance visible (50%-70%) lakeside affected 10 9 8 7 6	Highly developed or disturbed (>70% of lakeside affected) 5 4 3 2 1	
Upland Buffer Zone ☐ 3	Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 19 18 17 16	89%-51% of shoreline with >18m buffer or >75% with 10m to 18m buffer 15 14 13 12 11	50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer 10 9 8 7 6	< 29% of shoreline with >18m buffer 5 4 3 2 1	
Adverse Watershed Land Use ☐ 4	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 36	COMMENTS: Invasives (Hydrilla) significantly worse than 2020				
ANALYSIS DATE: 7/21/2021	ANALYST: F. Burton		SIGNATURE: 		

SBIO Sample ID: **82717**

HA ID: **16904**

QC: **✓**

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Locklin Lake Center					County: Santa Rosa (Milton)					Date: 07/21/2021				
Analyst: F. Butera					Signature:					STORET: G4NW0437				
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				
SBIO ID <u>82717</u>					Collect ed? (✓)					Macro ID <u>11878</u>				
SPECIES					3 6 9 12					SPECIES				
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 (Spiro. punctata)				
Cliftonia monophylla										Lemna sp.				
Colocasia esculenta										Leucothoe racemosa (E. 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				
Cyrilla racemiflora										*Ludwigia				
Decodon verticillatus										Luziola fluitans (H. 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										Myrica cerifera				
Eleocharis cellulosa										Bamboo				
Eleocharis equisetoides										Phyllostachys aurea				
Eleocharis interstincta														
*Eriocaulon compressum										Ligustrum sinense				
*Eriocaulon decangulare										Lycopus				
Eupatorium capillifolium										Gelsemium				
*Fuirena										Dioscorea				
Fuirena scirpoidea														
Gordonia lasianthus														

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Lake Stone Storet: G4NW0426					Date: 07/21/2021	SBIO ID 82717	Macro ID 11878				
SPECIES	3	6	9	12	Collect ed? (✓)	SPECIES	3	6	9	12	Collect ed? (✓)
Myriophyllum aquaticum	1	1	1	1		Salix caroliniana		1	1		
*Myriophyllum heterophyllum						Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis	1	1	1	1	
*Myriophyllum pinnatum						Sapium sebiferum	1	1	1		
Myriophyllum spicatum						Saururus cernuus					
*Najas filifolia						Schinus terebinthifolius					
*Najas guadalupensis						*Schoenoplectus californicus					
*Najas minor						*Schoenoplectus pungens					
Nelumbo lutea						*Schoenoplectus tabernaemontani					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus		1			
Nymphaea odorata						*Sesbania					
Nymphoides aquatica	1	1		1		Solidago sp.					
Nyssa sylvatica var. biflora						Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea		1				Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.					
Panicum hemitomon	1	1	1			Thalia geniculata					
Panicum repens	1	1	1	1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1	1		
*Paspalum repens						Typha sp.	1	1	1		
Paspalum urvillei	1	1	1	1		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 (Sphag. trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica areolata		1		1	
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						Iris sp.	1	1			
Proserpinaca pectinata						Quercus nigra	1			1	
*Rhexia						Erechtites hieracifolius		1			
*Rhynchospora corniculata						Carex glaucescens		1	+		
*Rhynchospora inundata	1	1			DFB	Carex albulatensis		1	+		
Rhynchospora tracyi						Cyperus virens					1 DFB
Ricciocarpus natans						Love Grass					+
Sabal palmetto						Panicum dichotomiflorum					+
Sacciolepis striata	1	1	1	1							+
*Sagittaria filiformis						Campsis radicans		1			
*Sagittaria graminea						Bidens alba			1		
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia	1	1	1								
LIMS ID 2264206											
RQ:2021-07-19-53						*Schoenoplectus tabernaemontani = Scirpus validus					

[illegible]

DEP-SOP-001/01
FS 7000 General Biological Community Sampling

Form FD 9000-2: COMPOSITE LAKE SAMPLING SHEET (< 1000 ACRES)

Date: <u>7/21/2021</u>	Name of Lake: <u>Locklin</u>	Gear used: <u>PONAR</u>	<u>EKMAN</u>	OTHER	
Comments:					
Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1		sand, silt/clay, CPOM, muck, SAV	7	<u>0.7</u>	sand, <u>silt/clay</u> , CPOM, muck, <u>SAV</u>
2		sand, silt/clay, CPOM, muck, SAV	8		sand, silt/clay, CPOM, muck, SAV
3	<u>0.7</u>	sand, <u>silt/clay</u> , CPOM, muck, <u>SAV</u>	9	<u>0.6</u>	sand, <u>silt/clay</u> , CPOM, muck, <u>SAV</u>
4		sand, silt/clay, CPOM, muck, SAV	10		sand, silt/clay, CPOM, muck, SAV
5		sand, silt/clay, CPOM, muck, SAV	11		sand, silt/clay, CPOM, muck, SAV
6	<u>0.5</u>	sand, <u>silt/clay</u> , CPOM, muck, <u>SAV</u>	12	<u>0.4</u>	<u>sand</u> , <u>silt/clay</u> , CPOM, muck, <u>SAV</u>

CPOM = coarse particulate organic matter; SAV = submerged aquatic vegetation

Storet 64NW0437

Field ID 64NW0437

Project. SMP/TMDL Studies

SBIO ID: 82717

WBID 24AF

Paste map here and show location of each dredge drop and where water chemistry parameters were collected.

Revision Date: February 1, 2004

Station: Locklin Lake Center
 GPS Dec. 30.62786 x -87.04863
 Storet: G4NW0437 WBID 24AF
 Sample ID: 82717 Macro ID: 11879
 RQ-2021-07-19-53

Sampled : 07/21/2021
 Sampled By: F.Butera, M. Butler
 Location: Milton, Santa Rosa.
 Receiving Waters: Blackwater River
 LIMS ID: 22646206

	Taxa	3	6	9	12	Coll.	Verified
1	<i>Alternanthera philoxeroides</i>	1	1	1	1		
2	<i>Bacopa caroliniana</i>		1				
3	<i>Bidens alba</i>			1			
4	<i>Bidens mitis</i>	1					
5	<i>Boehmeria cylindrica</i>	1	1	1	1		
6	<i>Brasenia schreberi</i>	1					
7	<i>Campsis radicans</i>		1				
8	<i>Carex albolutescens</i>		1				
9	<i>Carex glaucescens</i>		1				
10	<i>Centella asiatica</i>	1	1	1	1		
11	<i>Colocasia esculenta</i>	1	1	1	1		
12	<i>Cyperus odoratus</i>	1	1				
13	<i>Cyperus virens</i>				1	Y	FB
14	<i>Cyrilla racemiflora</i>	1					
15	<i>Dioscorea bulbifera</i>		1		1		
16	<i>Eleocharis baldwinii</i>	1					
17	<i>Erechtites hieraciifolius</i>		1				
18	<i>Eupatorium capillifolium</i>	1					
19	<i>Gelsemium rankinii</i> Small		1				
20	<i>Hydrilla verticillata</i>	D	C	C	D		
21	<i>Hydrocotyle</i> sp.	1	1	1	1		
22	<i>Iris</i> sp.	1	1			Y	FB
23	<i>Juncus effusus</i>	1	1	1			
24	<i>Ligustrum sinense</i>		1		1		
25	<i>Ludwigia octovalvis</i>	1	1				
26	<i>Ludwigia peruviana</i>	1			1		
27	<i>Luziola fluitans</i> (Michx.)	1	C	C	1		
28	<i>Lycopus</i> sp.	1	1				
29	<i>Lyonia lucida</i>		1				
30	<i>Magnolia virginiana</i>		1				
31	<i>Mayaca fluviatilis</i>		1				
32	<i>Mikania scandens</i>	1		1			
33	<i>Myrica cerifera</i>	1	1	1			
34	<i>Myriophyllum aquaticum</i>	1	1	1	1		
35	<i>Nymphoides aquatica</i>	1	1		1		
36	<i>Osmunda cinnamomoea</i>		1				
37	<i>Osmunda regalis</i>		1				
38	<i>Panicum dichotomiflorum</i>				1	Y	Pressed
39	<i>Panicum hemitomon</i>	1	1	1			
40	<i>Panicum repens</i>	1	1	1	1		
41	<i>Paspalum urvillei</i>	1	1	1	1		
42	<i>Phyllostachys aurea</i>		1	1	1	Y	Pressed
43	<i>Quercus nigra</i>	1			1		
44	<i>Rhynchospora inundata</i>	1	1			Y	FB
45	<i>Sacciolepis striata</i>	1	1	1	1		
46	<i>Sagittaria latifolia</i>	1	1	1			
47	<i>Salix carolinana</i>		1	1			
48	<i>Sambucus canadensis</i>	1	1	1	1		

Station: Locklin Lake Center
 GPS Dec. 30.62786 x -87.04863
 Storet: G4NW0437 WBID 24AF
 Sample ID: 82717 Macro ID: 11879
 RQ-2021-07-19-53

Sampled : 07/21/2021
 Sampled By: F.Butera, M. Butler
 Location: Milton, Santa Rosa.
 Receiving Waters: Blackwater River
 LIMS ID: 22646206

	Taxa	3	6	9	12	Coll.	Verified
49	<i>Sapium sebiferum</i>	1	1	1			
50	<i>Scirpus cyperinus</i>		1				
51	<i>Triadenum virginicum</i>	1	1	1			
52	<i>Typha</i> sp.	1	1	1			
53	<i>Woodwardia areolata</i>		1		1		
	Taxa per section	32	41	22	20	Herb. Taxa	42
	Exotic Present	8	9	8	10	Woody Taxa	8
	Avg. taxa per section	29				Ferns	3
	sections with exotics	4				Macro Algae	0
	Exotic Taxa	11	Exotics per Section: 8.75			Total Taxa	53

Seen but not counted (Not approp. For LVI or Not in surveyed segment)

Taxon	3	6	9	12
Filamentous green algae	1	1	1	1
<i>Albizia julibrissin</i> !	1	1	1	1
<i>Canna</i> sp. *			1	
<i>Magnolia grandiflora</i>			1	

* Above Mean Highwater Line

! *A. julibrissin* counted as taxa in 2020 survey.

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	22	38	20	3	21
Native Percentage	72.73	77.5	68.18	57.89	69.08
FLEPPC Pct (Exotic)	15.15	12.5	18.18	26.32	18.04
Total Taxa	33	40	22	19	28.50
C of C over 7.0	3.03	7.5	0	0	2.63
Dominant Taxa	Hydrilla verticillata	H. verticillata / L. fluitans	H. verticillata / L. fluitans	Hydrilla verticillata	Hydrilla verticillata
C of C Dominant	0	2	2	0	1.00