



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STATUS & TREND NETWORKS FIELD SHEET - SURFACE WATER
Effective: October 2023

Collection Agency: 8010 Project Name: Z1SL2309 Date: 10/04/2023

Trend Network Station Name:
OR Status Network Random ID: Z1-SL-17025

Waterbody Name: LITTLE RIVER LAKE RQ-2023-09-04-17

Waterbody Type: SMALL LAKE

Sampling Team Member Names	Field Measurements	Water Sample Collection	Documentation	Sample Preservation	Field / Equip. Blank Collection	Sediment Sample Collection	Bioassessment Data Collection	Signatures or Initials
Frank Butera			X			X	X	FB
Nathan Mulkey	X	X						NM

Additional Personnel / Visitors On-site:

Weather Conditions: Sunny 80's

Photos Taken: YES (Required for all Status stations. Required annually for all Trend stations.)

Water Level: NORMAL	Flow: NO_FLOW	Tide: N/A
QA/QC Blank Collected at this station? NA		
QA/QC Blank Field ID:		Collection Time (24 hr):
Van Dorn Equip. ID / Name:		Cleaning:
Bioassessment Data Collected: ☐ None ☒ HA ☐ SCI ☐ RPS ☐ LVS ☒ LVI		

Sediment Sample Collected: NO	Sed. Collection Time (24hr): CTZ
Sed. Collection Depth (m) (total water depth):	Number of Grabs (minimum 3):
Sed. Collection Interval:	
Sed. Collection Area Description:	
Sed. Collection Device:	Device ID:
Dominant Sed. Type (select one):	
Sediment Odors (select one):	
Sediment Color:	
Sediment Sample Comments: Ekman Dredge not on board boat. Sampler error.	

Field ID: Z1-SL-17025Project Name: Z1SL2309Date: 10/04/2023

Water Sampling Equipment:



Direct Grab with Sample Container



Van Dorn: _____ # Grabs; _____ Equipment ID

Collection Method: Canoe or KayakField Meter ID: 155077 (ProDSS)Depth Measurement Device: Field Meter Listed Above

DATA COLLECTION DEPTHS: Total depth < 0.1 m → no data collection. Total depth ≥ 0.1m and < 0.6m → surf. meas. & sample at mid-depth.
Total depth ≥ 0.6 m & < 1.5 m → surface meas. & sample at 0.3m. Total depth ≥ 1.5 m → surface meas. & sample at 0.3m, bottom meas. 0.5 m above bottom.

PRIMARY (SURFACE) SAMPLECollection Time (24 hr): **11:25** CTZ

Check here if Secchi depth visible on bottom (S qualifier needed).



Check here if bottom measurements not collected because total depth < 1.5 m.

PARAMETER	VALUE	QUALIFIER(S)	RESULT COMMENT
Sample Collection Depth (m)	0.3		
Secchi Depth (m)	1.6		
Total Depth (m)	3.8		
Temp (°C)	26.4		
D.O. (% SAT)	54.3		
D.O. (mg/L)	4.38		
Sp. Cond. (umhos/cm)	14.5		
pH (SU)	4.89		

BOTTOM SAMPLE (FIELD MEAS. ONLY)

Collection Time (24 hr): CTZ

PARAMETER	VALUE	QUALIFIER(S)	RESULT COMMENT
Sample Collection Depth (m)			
Temp (°C)			
D.O. (% SAT)			
D.O. (mg/L)			
Sp. Cond. (umhos/cm)			
pH (SU)			

SAMPLE COMMENTS**PRIMARY (SURFACE):** Ekman Dredge not on board.Hard Pack bottom. Ekman Dredge not on board.**BOTTOM:****OFFICE USE ONLY**

Reviewed By:

Date:

WIN ID: 63281

SBIO-Visit: 88800

HA-ID: 19006

RPS-ID: N/A

Macro-ID:



RQ-2023-09-04-17

Project Name: Z1SL2309

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Nathan Mulkey

Customer: AMBIENT

Lab Project ID: STATUS

 Site Location: Z1-SL-17025  Field ID: Z1-SL-17025	Comments: Sulfuric Acid Lot #: SA3013020 Nitric Acid Lot #: NA3123030
---	--

Matrix: W-SURF-FRSH ☒ Grab

Date Collected	Time Collected	D.O. (% SAT)	Temp (°C)	pH (SU)	Sample Depth (m)	Sp. Cond. (umhos/cm)
10/04/2023	11:25 CTZ	54.3	26.4	4.89	0.3	14.5

Check Boxes for Each Container Submitted to Lab				Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects			
Chlorophyll (BP-1L)	☐ CHLSUITE-W	☒ CHLSUITE-W		☒ Ice	1	A
Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-S-A-TP / W-TKN / W-TOC	☒ W-NH3 / W-NO2NO3 / W-S-A-TP / W-TKN / W-TOC		☒ 2ML H ₂ SO ₄ ☒ pH < 2 ☒ Ice	1	
Metals (P-500ML)	☐ W-HARD / W-ICP / W-ICPMS	☒ W-HARD / W-ICP / W-ICPMS		☒ 2ML HNO ₃ ☒ pH < 2 ☒ Ice	1	
Anion / Phys. Aggregate (P-1L)	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS	☒ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS		☒ Ice	1	
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☒ ECOLI-18-QT		☒ Ice	1	
Toxins (P-125ML/BG-250ML)		☒ W-MCYST-AA / W-SAXTN-MS	☐ W-MCYST-AA / W-SAXTN-MS	☒ Ice	1	
Molecular (QPCR-P-500ML)			☐ PCR-BACR / PCR-DG3 / PCR-GFD / PCR-GULL2 / PCR-HF183	☐ Ice		
Tracers (BG-500ML)			☒ W-E8321-DI / W-E8321-MS	☒ Ice	1	
Pesticides (BG-500ML)			☐ W-PSNP-TQ	☐ Ice		
BOD (P-1L)			☐ OV-BOD-UN	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		

Matrix: SEDIMENT		Date Collected: 10/04/2023		Time Collected: CTZ		
Check Boxes for Each Container Submitted to Lab				Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Sp. Projects			
Metals (GJ-500ML)		☐ S-HG-TDA / S-ICP-TO / S-ICPMS-TO		☐ Ice		

Matrix: BIOLOGICAL		Date Collected: 10/04/2023		Time Collected: CTZ		
Check Boxes for Each Container Submitted to Lab				Preservation	# Bottles sent to Lab	Bottle Group
Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects			
Macroinvert-SCI (PJ-2L)	☐ MI-FW-QLDC		☐ MI-FW-QLDC	☐ Buffered Formalin (10%)		
Algal ID (PT-50ML)	☐ ALGAL_ID		☐ ALGAL_ID	☐ Ice		



RQ-2023-09-04-17

Project Name: Z1SL2309

Collected By (Agency Code): 8010

Sampler Names: Frank Butera, Nathan Mulkey

Customer: AMBIENT

Lab Project ID: STATUS

Comments:

Sulfuric Acid Lot #:

Nitric Acid Lot #:

Matrix:

✓ Grab

Date Collected

Blank Collection Time

Check Boxes for Each Container Submitted to Lab

Parameter Suite	Lab Test Codes Trend Core	Lab Test Codes Status Core	Lab Test Codes Special Projects	Preservation (Must be completed within 15 min of sample collection)	# Bottles sent to Lab	Bottle Group
Nutrients (P-500ML)	☐ W-NH3 / W-NO2NO3 / W-S-A-TP / W-TKN / W-TOC	☐ W-NH3 / W-NO2NO3 / W-S-A-TP / W-TKN / W-TOC		☐ 2ML H ₂ SO ₄ ☐ pH < 2 ☐ Ice		
Metals (P-500ML)	☐ W-HARD / W-ICP / W-ICPMS	☐ W-HARD / W-ICP / W-ICPMS		☐ 2ML HNO ₃ ☐ pH < 2 ☐ Ice		
Anion / Phys. Aggregate (P-1L)	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS	☐ ALKALINITY / TURBIDITY / W-CL-IC / W-COLOR / W-COND / W-F / W-SO4-IC / W-TSS		☐ Ice		
Microbiology (P-250ML or P-120ML)	☐ ECOLI-18-QT	☐ ECOLI-18-QT		☐ Ice		
Toxins (P-125ML/BG-250ML)		☐ W-MCYST-AA / W-SAXTN-MS	☐ W-MCYST-AA / W-SAXTN-MS	☐ Ice		
Tracers (BG-500ML)			☐ W-E8321-DI / W-E8321-MS	☐ Ice		
Pesticides (BG-500ML)			☐ W-PSNP-TQ	☐ Ice		
Filtered Nutrient (P-125ML)			☐ W-PO4-F	☐ Field Filtered w/ syringe & 0.45 um PES filter ☐ Ice		

Site Name Z1-SL-17025. Little River Lake

Date: 10/04/2023

WIN-ID 63281

Field ID Z1SL17025

Project: Ambient Status Monitoring / Small Lakes

Visit ID 88800

RQ: 2023-09-14-17

Macro ID 12777

LIMS ID: 2443024

HA ID 19006

WBID: 526

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem in SBIO

Initial FB

☒ Date and Initial QA: 6/24/24 JS

☒ HA entered in SBIO

Initial FB

☒ Date and Initial QA: 6/24/24 JS

HA Score 125

☒ LVI entered in SBIO

Initial FB

☒ Date and Initial QA: 6/24/24 JS

☒ Plants getting verified

☒ Date submitted: In House

☒ Plants verified

☒ Date returned: In House

☒ Macro ID authorized in SBIO

☒ Date and Initial: 7/3/24 FB

☒ Macro ID score: 95

☐ If SMP, scanned into database

Notes:

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 88800 MACROPHYTE ID: 12777 LATITUDE: N 30.54580
 COUNTY: Washington Co. (nr. Vernon) STORET #: 63281 LONGITUDE: W -86.59480
 DATE: 10/04/2023 TIME: 10:00 am SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Z1-SL-17025. Little River Lake WBID: 526
 FIELD ID/NAME: Z1SL17025 LAKE SIZE: 8.8 Hectares RQ: 2023-09-04-17

WATERSHED / LAKESIDE FEATURES

LIMS ID 2443024

21.7 acres

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>2d</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 3 2 1	
LAKESIDE ALTERATIONS <u>2d</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 3 2 1	
BUFFER ZONE <u>2d</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 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						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>11.25</u> <u>0.3</u> <u>26.4</u> <u>4.09</u> <u>4.38</u> <u>54.3</u> <u>14.5</u> <u>0.01</u> Mid-Depth: _____ Bottom: <u>3.3</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: <u>155077</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): <u>clay</u>						Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____					
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>Sunny Low 80s.</u>						Additional Notes:					
SAMPLING TEAM: Frank Butera, <u>Nathan Mulkey</u>						SIGNATURE: <u>Frank S. Butera</u>					
						DATE: 10/04/2023					

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

STORET STATION NUMBER: 63281	DATE (M/D/Y) 10/04/23	LAKE NAME Z1-SL-17025. Little River Lake		FIELD ID / NAME Z1-SL-17025		
WBID: 526	COUNTY: Washington	SAMPLING LOCATION/DESCRIPTION: NWFWMD Property		LAKE SIZE: 8.8 Hectares		
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				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) ☒		
	Optimal	Suboptimal		Marginal		
Secchi	Secchi >3 m Or VOB	Secchi(m)		Poor		
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 ☒		
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 ☒		
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 ☒		Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom ☒		
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 ☒		Highly developed or disturbed (>70% of lakeside affected) ☒		
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 ☒		< 29% of shoreline with >18m buffer ☒		
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 ☒					
TOTAL SCORE	125	COMMENTS:				

ANALYSIS DATE: 10/04/23	ANALYST: Frank Butera	SIGNATURE: 
--------------------------------	------------------------------	--

SBIO Sample ID: 88800 HA ID: 19006 QC✓: _____

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Z1-SL-17025 (Little River Lake)					County: Washington					Date: 10/04/2023				
Analyst: F. Butera					Signature:					STORET: 63281				
Except where noted as "sp." species level identification required. *Genera that may require lab verification*										Lake units sampled (circle one group):				
Plants in bold = FLEPPC invasive exotic.										1, 4, 7, 10 2, 5, 8, 11				
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.										3, 6, 9, 12				
SBIO ID <u>88800</u>		1	4	7	10	Collect ed? (✓)	Macro ID <u>12777</u>		1	4	7	10	Collect ed? (✓)	
SPECIES							SPECIES							
Acer rubrum							Habenaria repens							
Alternanthera philoxeroides							Hydrilla verticillata							
Andropogon sp.		1			1		Hydrocotyle sp.							
Azolla filiculoides (A. caroliniana)							Hygrophila polysperma							
Baccharis sp.							*Hypericum fasciculatum			1	1	1		
Bacopa caroliniana							*Hypericum hypericoides							
Bacopa monnieri							*Hypericum myrtifolium <i>brachy</i>		1	1	1	1		
Bidens laevis							Ilex cassine							
Bidens mitis			1	1			Ipomoea aquatica							
Blechnum serrulatum							Ipomoea sagittata							
Boehmeria cylindrica							Itea virginica		1	1	1	1		
Brasenia schreberi				1			Juncus effusus							
Cabomba caroliniana							*Juncus marginatus							
Casuarina equisetifolia							*Juncus megacephalus							
Centella asiatica							Juncus repens							
Cephalanthus occidentalis			1	1			*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		1	1		1		*Ludwigia							
Decodon verticillatus							Luziola fluitans (H. carolinensis)							
Diodia virginiana							Lyonia lucida			1	1			
*Echinochloa crus-galli							Magnolia virginiana							
*Echinochloa muricatum							Mayaca fluviatilis							
Echinochloa walteri							Melaleuca quinquenervia							
Eclipta prostrata (E. alba)			2				Micranthemum glomeratum							
Egeria densa							Micranthemum umbrosum							
Eichhornia crassipes							Mikania scandens							
*Eleocharis baldwinii		1			1		Mimosa pigra							
*Eleocharis							Myrica cerifera							
Eleocharis cellulosa							<i>Lycopus</i>		1	1	1	1		
Eleocharis equisetoides														
Eleocharis interstincta														
*Eriocaulon compressum														
*Eriocaulon decangulare														
Eupatorium capillifolium														
*Fuirena														
Fuirena scirpoidea														
Gordonia lasianthus														
LIMS ID: 2443024														

Waterbody: Z1-SL-17025		Storet: 63281		Date: 10/04/2023		SBIO ID 88800		Macro ID 12777			
SPECIES	1	4	7	10	Collect ed? (✓)	SPECIES	1	4	7	10	Collect ed? (✓)
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					
Nitella spp.						Scirpus cubensis (Oxycaryon cubense)					
Nuphar sp.						Scirpus cyperinus					
Nymphaea odorata	1			1		*Sesbania					
Nymphoides aquatica	1	1	1	1		Solidago sp.					
Nyssa sylvatica var. biflora	1		1			Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.	1	1	1	1	
Panicum hemitomon	1	1		1		Thalia geniculata		1	1	1	
Panicum repens				1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1		1	
*Paspalum repens						Typha sp.		1			
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana	1	1	1	1	
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	1	1	1	1	
*Polygonum punctatum						Wedelia trilobata (Sphag. trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata	1	1	1	1		Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.	1	1	1	1	
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						Green Algae	1	1	1	1	
Proserpinaca pectinata											
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata			1	1	✓						
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto minor		1									
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea				</							

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

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

Date: 10/4/23		Name of Lake: Z1-SL-17025		Gear used: PONAR EKMAN 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		sand, silt/clay, CPOM, muck, SAV
2		sand, silt/clay, CPOM, muck, SAV	8		sand, silt/clay, CPOM, muck, SAV
3		sand, silt/clay, CPOM, muck, SAV	9	3.8	sand, silt/clay, CPOM, muck, SAV
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		sand, silt/clay, CPOM, muck, SAV	12		sand, silt/clay, CPOM, muck, SAV

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

Storet 63281
WBID 526

Field ID Z1SL17025

Project Status Small Lakes.
Z1SL2309

SBIO ID: 88800

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

Revision Date: February 1, 2004

Station: Z1-SL-17025. Little River Lake
 GPS Dec. 30.54580 x -8659480
 Storet: 63281 WBID 526
 Sample ID: 88800 Vascular ID: 12777
 RQ-2023-06-12-63

Sampled : 10/04/2023
 Sampled By: F.Butera, N. Mulkey
 Location: Vernon, Washington County
 Receiving Waters: Choctawhatchee River
 LIMS ID: 2443024

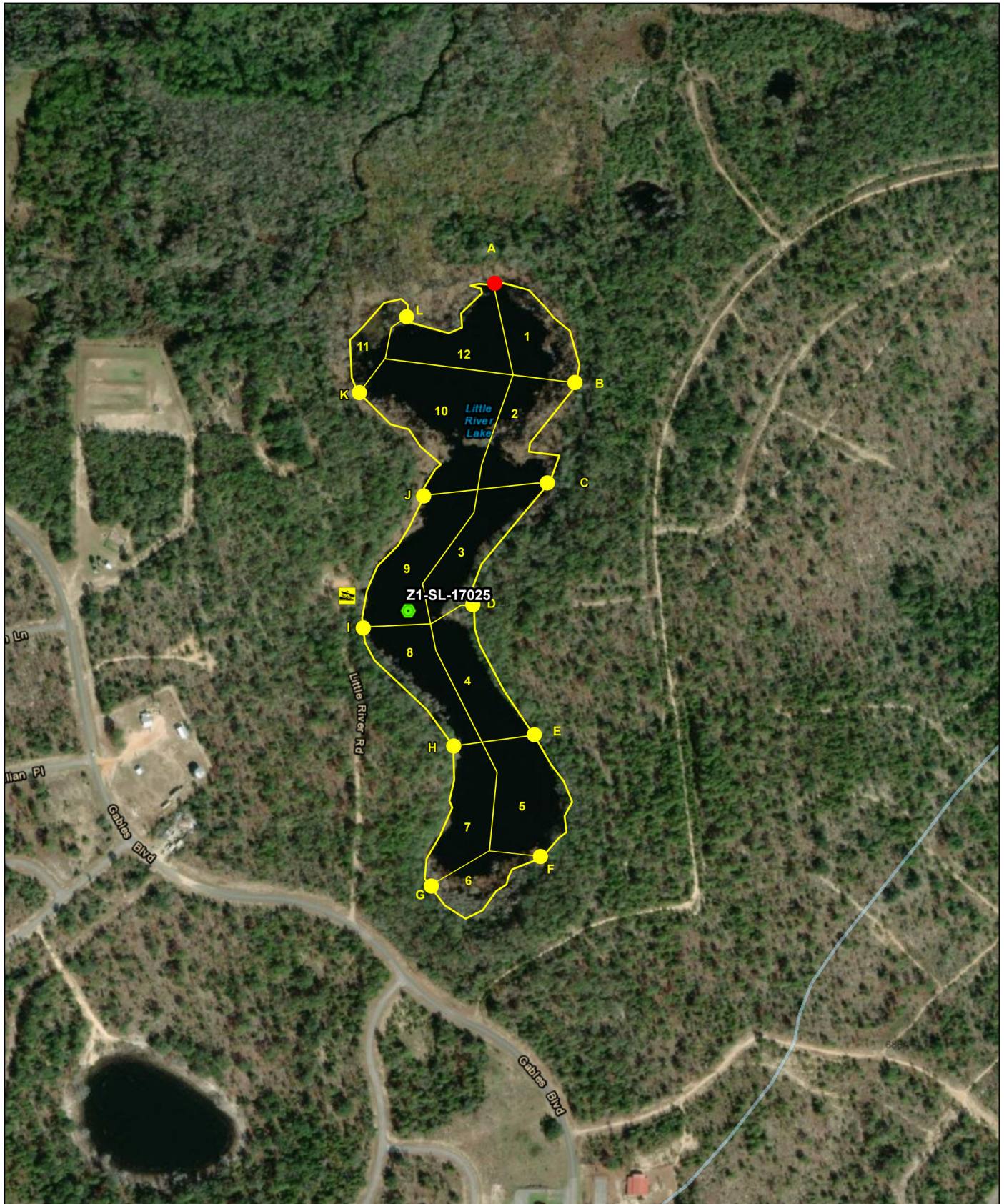
	Taxa	1	4	7	10	Coll.	Verified
1	<i>Andropogon</i> sp.	1			1		
2	<i>Eleocharis baldwinii</i>	1			1		
3	<i>Lachnanthes caroliana</i>	1					
4	<i>Panicum hemitomon</i>	1	1		1		
5	<i>Panicum repens</i>				1		
6	<i>Pontederia cordata</i>	1	1	1	1		
7	<i>Rhynchospora inundata</i>			1	1	Y	FB
8	<i>Websteria confervoides</i>	D	D	C	C		
9	<i>Xyris</i> sp.	1	1	1	1		
10	<i>Bidens mitis</i>		1	1			
11	<i>Brasenia schreberi</i>			1			
12	<i>Hypericum brachyphyllum</i>	1	1	1	1		
13	<i>Hypericum fasciculatum</i>		1	1	1		
14	<i>Lycopus</i> sp.	1	1	1	1	Y	FB
15	<i>Nymphaea odorata</i>	1			1		
16	<i>Nymphoides aquatica</i>	1	1	1	1		
17	<i>Triadenum virginicum</i>	1	1		1		
18	<i>Utricularia floridana</i>	1	1	C	C		
19	<i>Cephalanthus occidentalis</i>		1	1			
20	<i>Cyrilla racemiflora</i>	1	1		1		
21	<i>Itea virginica</i>	1	1	1	1		
22	<i>Lyonia lucida</i>		1	1			
23	<i>Nyssa sylvatica</i> var. <i>biflora</i>	1		1			
24	<i>Sabal minor</i>		1				
25	<i>Taxodium</i> sp.	1	1	1	1		
	Taxa per section	17	17	16	18	Herb. Taxa	18
	Exotic Present	17	17	16	17	Woody Taxa	7
	Avg. taxa per section	17				Ferns	0
	sections with exotics	1				Macro Algae	0
	Exotic Taxa	1	Exotics per Section: 0.25			Total Taxa	25

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

Taxon	Section	Section	Section	Section	Exclusion
Algae	1	1	1	1	Algae. Not vascular

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	97	97	96	88	95
Native Percentage	100	100	100	94.44	98.61
FLEPPC Pct (Exotic)	0	0	0	5.56	1.39
Total Taxa	17	17	16	18	17.00
C of C over 7.0	29.41	29.41	43.75	27.78	32.59
Dominant Taxa	Websteria confervoides	Websteria confervoides	W. confervoides U. floridana	W. confervoides U. floridana	W. confervoides U. floridana
C of C Dominant	7	7	6.67	6.67	6.84

Z1-SL-17025 Little River Lake LVI Map



September 25, 2023

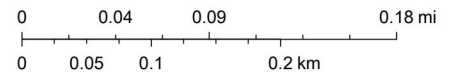
 FWC Florida Boat Ramp Inventory

 Small Lake Site

Waterbody IDs (WBIDs)

 Group 3

1:4,514



DEAR, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, Florida Fish and Wildlife Conservation Commission - Fish and Wildlife Research Institute, County of Bay, Esri, HERE, iPC, WRM,

Z1-SL-17025. Little River Lake

WIN-ID	
Receiving Water	Groundwater
Basin / WBID	St. Andrew's Bay / 526
City, County	Venon, Washington Co.
Lake Acreage	21.72 Acres, 8.79 Hectares
Circumference (M)	1920
Seg. Length (M)	160

Section	Location	Dec Deg.
9	Storet TBD	30.54580, 85.5948
1	A	30.54898, 85.59384
	B	30.54801 x 85.59292
	C	30.54704 x 85.59323
4	D	30.54585 x 85.59407
	E	30.54459 x 85.59338
	F	30.54341 x 85.59331
7	G	30.54312 x 85.59454
	H	30.54448 x 85.59429
	I	30.54569 x 85.59531
10	J	30.54691 x 85.59462
	K	30.54792 x 85.59535
	L	30.54865 x 85.59482
	A	30.54898, 85.59384

Little River Lake Boat Ramp

N 30.545954, W 85.59549
 3915 Little River Lake Road
 Chipola, FL

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there are qualified data on this page.

Meter ID:

155077

RQ:

2023-09-04-17

Project:

Status SL

Notes: (1) Always wait for meter to stabilize before recording any readings.

(2) Report all digits displayed. Do not round before reporting measurements. (See special instructions for depth).

(3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification

6/29/23

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp °C	Baro-meter mmHg	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	NM	10/4/23	0630	21.7	763	8.8	8.8	100.5			P / F	L / F
ICV	↓	↓	0632	↓	↓	↓	8.84	100.6			P / F	L / F
CCV	↓	↓	1430	24.7	761	8.3	8.33	100.3			P / F	L / F
CCV											P / F	L / F

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15 (Pro DSS 0.75 to 1.50); DO charge N/A. Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Expir. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.	NM	10/4/23	0635	221221B	1/24	1000	1000	P / F	L / F
ICV	↓	↓	0637	230057A	7/24	106	104	P / F	L / F
CCV	↓	↓	1432	↓	↓	↓	103	P / F	L / F
CCV								P / F	L / F

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Expir. Date	pH Buffer SU	Temp °C	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.	NM	10/4/23	0640	11200910	8/24	7.	21.4	7.0		P / F	L / F
Calibr.	↓	↓	0642	DMC0886	5/24	4.	↓	4.0		P / F	L / F
Calibr.	↓	↓	0644	1200576	12/23	10.	↓	10.0		P / F	L / F
ICV	↓	↓	0646	EMD0616	5/24	4.0	↓	4.04	137.5	P / F	L / F
CCV	↓	↓	1434	1110110	5/24	7.0	22.9	6.93	26.5	P / F	L / F
CCV										P / F	L / F

pH Acceptance criteria ± 0.2 SU; mV pH 7 Range 0 ± 50 ;

mV pH 4 Range $+180 \pm 50$;

mV pH 10 Range -180 ± 50 ;

If mV are recorded: slope from 7 to 10 _____, slope from 4 to 7 164 (both must be between 165 and 180 mV)

Does meter have a depth sensor that will be used to measure total depth & sample depth? YES / NO / NA (not surf. water project)

If YES, complete daily Calibr. & ICV below and list date of last quarterly depth verification:

6/29/23

If NO, what will be used? (circle one) Secchi Disk Line / Sonar Unique ID: _____; Date of last verification: _____

Depth Sensor (Daily Calibration & ICV)	Name	Date	Time CT-ET	Calibrated Value (0.00 or Offset), meters	ICV Value, meters	Pass / Fail	Lab / Field
Pressure mode in air	NM	10/4/23	0648	0.00	0.00	P / F	L / F

Report two decimal places. Round numbers ≤ 4 down, ≥ 5 up. ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater.

COMMENTS:

Z1-SL-17025

Little River Lake

Z1-SL-17025 Little River Lake LVI		WBID	Kit	Qty	Bottle Group	Number of Bottles
Z1-SL-17025 River Lake)	(Little River Lake)	526	Fresh nutrients	1	A	3
			Metals	1		1
			ECOLI-18QT	1		1
			Microcystins. W-MCYST-AA, W-SAXTN-MS	1		1
			Sediments. S-HG-TDA, S-ICP-TO, S-ICPMS-TO	1	C	1
RQ-2023-09-04-17. Need pictures						
Field ID	WBID	WIN Description	County	Lat Long		
Z1SL17025	526		Washington	30.54580, 85.5948		
RQ-2023-09-04-17						
Notes (access, boat ramp, etc.)						
Z1-SL-17025 (Little River Lake)	Project Z1SL2309. WMD Boat Ramp. Little River Lake Boat Ramp 3915 Little River Lake Road. 30.54594, W 85.59549 Basin Choctawhatchee River				N	
	Lot #	Expiration date:				
Sulfuric Acid	SA3013020	1/25/2024				
Nitric Acid	NA3123030	5/10/2024				
Field ID	TIME	Temperature / Dissolved Oxygen	pH	Conductivity		
Z1SL17025						



Z1-SL-17025

Z1SL2309 Z1-SL-17025 LITTLE RIVER LAKE