

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION**

STRATEGIC MONITORING PLAN FIELD SHEET

January 2022

Meter Passed End

of Day CCV

☒ Yes☐ No

WIN Station Name: Lake Prima Vista @ Center

Date: 9/13/2022

WIN/Field ID: G2CE0125

WBID: 3002E

ENR: -

Latitude: 28.56389

County: Orange

Org ID: 21FLCEN

Longitude: -81.53666

Receiving Body of Water: -

RQ: 2022-07-18-29

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Terry Riordan		x		x	x
☒	Victoria Schwartz	x		x		
☐						
☐						

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

Water Level: ☒ Normal ☐ Low ☐ High ☐ Dry ☐ Pooled ☐ Flooded						Meter ID# SHRIMP TRAP					
Photos: YES		Flow: NA		Tide:		Tide Times: High: Low:					
Biological Samples Collected: ☐ None ☐ HA ☐ SCI ☐ RPS ☐ Algae ID ☐ LVS ☒ LVI Other:											
SBIO ID Numbers: SBIO 85627						LIMS 2356250					
Notes: SUNNY											

Duplicate Sample

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

Blank

Time Zone: EST	Time: 1320	Field ID: FB_09132022	(Blank Type_DDMMYYYY)
DI Source: Lab sink		Location: Boat Ramp	
DI Type: Field Blank		Equipment ID:	
DI Container (Name/ID): #6	DI Container Type: Carboy		

LIMS EVENT ID: CEN-DIST-2022-09-14-01

WIN Import ID: 36346

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM 10/18/22

QC Station ID, Field Parameters In LIMS DMT: VLS 10/31/22

(Initials/Date)

(Initials/Date)

Scan/Save Field Sheets KWM 11/1/22

(Initials/Date)

Migrate Data to WIN: KWM 11/1/22

(Initials/Date)

Verify Data In WIN:

(Initials/Date)



RQ-2022-07-18-29
Customer: CEN-DIST
Project ID: STRATEGIC MONITORING PLAN

Collected By: Terry Riordan, Victoria Schwartz
Field Report Prepared By: Terry Riordan
Sampling Agency: FDEP

Place Label Here WIN ID/Field ID: G2CE0125 Location: Lake Prima Vista @ 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 _h)	
	1237 EST	9.71	130.2	30.6	7.67	0.3	0.6 ☐ VOB (S)	4.4	229.2	0.11	
9/13/2022	1241	6.7	88.2	29.7	7.24	2	Central Lab please use top row for login purposes		228.7	0.11	
	1243 EST	0.55	7.1	28.1	6.66	3.9			366.2	0.17	
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 #	132275		Exp:	12/07/2022					
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A	
		Lot #	NA1105100		Exp:	06/07/2023					
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A	
		Filter Lot #	17413308		Syringe Lot#	2090604					
Biochemical Oxygen Demand (BP-1L)		BODTEST OV-BODUNIN				☐ ICE					
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-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 ☐ Contract Lab				☐ Ice					
Molecular (QPCR-P-500ML)		☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-DG3 ☐ PCR-GULL2 ☐ PCR-GFD				☐ Ice					
Tracers (BG-500ML)		☐ W-E8321-DI ☐ W-E8321-MS				☐ Ice		MCAA Exp. Date			
Pesticides (BG-500ML) (BG-1L)		☒ W-E8321-DI ☒ WE8321-MS		☒ W-PSNP-TQ		☐ W-CT-Cl-R		☒ Ice	MCAA Lot#	5	A
		☐ W-PCl-TQ-R		W-CARB-AA (5 ml of MCAA** Buffer Solution)		☒ W-TR-SQ-R					
Phytoplankton/Periphyton		☐ W-PCB-TQ-R		☐ PKD-QN-BV		☐ Ice					
Name: Terry Riordan Victoria Schwartz		Signature: <i>Victoria Schwartz</i>				Date: 09/13/2022					

*2.0 ml of Preservative used unless noted otherwise.
**MCAA: Monochloroacetic acid buffer solution



RQ- 2022-07-18-29

Customer: WQAPProject ID: SMPCollected By: Terry Riordan, Victoria SchwartzField Report Prepared By: Terry Riordan, Victoria SchwartzSampling Agency: FDEP

BLANK

Field ID: FB_09132022

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: Lab sink

9/13/2022

1320

EST

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 Lot # 132275 Exp: 12/7/22	☒ Ice ☒ H2SO4	☐ <2	1	B
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP Lot # Exp:	☐ Ice ☐ HNO3	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F Filter ☒ Field Filtered 0.45 µm Filter Lot # 17413308 Syringe Lot # 2090604	☒ Ice		1	B
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-IC / TDS	☒ Ice		1	B
Physical/Aggregate (Marine) (P-1L)	☐ Alkalinity / W-BR-IC / W-F / W-TSS / TURBIDITY	☐ Ice			
Tracers (BG-500ML)	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice	MCAA Exp. Date		
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CI-R ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-TR-SQ-R ☐ W-PCB-TQ-R	☐ Ice	MCAA Lot#		
Name: Terry Riordan Victoria Schwartz		Signature:		Date: 09/13/2022	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 28.56389
COUNTY: Orange STORET #: GACE0125 LONGITUDE: -81.53666
DATE: 9/13/22 TIME: 12:37 SAMPLING AGENCY: 21FLCEN
SITE NAME: Lake Prima Vista @ Center WBID: 3002E
FIELD ID/NAME: GACE0125 LAKE SIZE: 19.38 RQ: 2023-07-18-29

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)
			<u>20</u>	<u>80</u>			

Local Watershed Erosion (select one) : ☐ None ☐ Slight ☒ Moderate ☐ Heavy
Local Watershed NPS Pollution : ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy

Artificially Impounded ☐ Yes ☒ No

LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)
LDI: _____
Land Use Source & Year: _____

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>8x6</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>5</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>5</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 # 132275 Exp. Date: 12/7/22
Alkalinity Sample Taken? ☒ Yes ☐ No
Water Level ☐ Low ☒ Normal ☐ High

Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____

Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____

Meter Readings:

Meter	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)
Top:	<u>0.3</u>	<u>30.6</u>	<u>7.67</u>	<u>9.71</u>	<u>130.2</u>	<u>229.2</u>	<u>0.11</u>
Mid-Depth:	<u>2</u>	<u>29.7</u>	<u>7.24</u>	<u>6.7</u>	<u>98.2</u>	<u>228.7</u>	<u>0.11</u>
Bottom:	<u>3.9</u>	<u>28.1</u>	<u>6.66</u>	<u>0.55</u>	<u>7.1</u>	<u>366.2</u>	<u>0.17</u>

Meter ID: Shrimp Trap

Clarity: ☐ Clear ☒ Slightly Turbid ☐ Opaque ☐ Turbid

Color: ☐ Clear ☒ Tannic ☐ Green

SECCHI (M) 0.6 Total Station Depth (M) 4.4

VOB ☐

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 ☐ 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	☒	☐	☐	☐

Additional Notes:
- water very green
- periphyton along shoreline
- HAB kit collected at connecting Starke Lake

Weather Conditions: Sunny * west side of lake surrounded by Blueberry farm

SAMPLING TEAM: Terry Riordan / Victoria **SIGNATURE:** [Signature] **DATE:** 9/13/22

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Prima Vista</u>		County: <u>Orange</u>		Date: <u>9/13/22</u>	
Analyst: <u>Terry Riordan/Victoria Schwarz</u>		Signature: <u>[Signature]</u>		STORE: <u>GALE0125</u>	
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 <u>2, 5, 8, 11</u> 3, 6, 9, 12	
SPECIES		Collected? (✓)		SPECIES	
25811		25811		Collected? (✓)	
Acer rubrum				Fuirena scirpoides	
Alternanthera philoxeroides	/	/	/	Gordonia lasianthus	
Amaranthus australis				Habenaria repens	
Andropogon sp.				Hibiscus coccineus	
Azolla filiculoides (A. caroliniana)				Hibiscus grandiflora	
Baccharis sp.				Hydrilla verticillata	
Bacopa caroliniana				Hydrocotyle sp.	/
Bacopa monnieri	/			Hygrophila polysperma	/
Bidens alba				Hymenocallis sp.	
Bidens laevis				*Hypericum fasciculatum	
Bidens mitis				*Hypericum hypericoides	
Blechnum serrulatum				*Hypericum myrtifolium	
Boehmeria cylindrica	/	/	/	Ilex cassine	
Brasenia schreberi				Ipomoea aquatica	
Cabomba caroliniana				Ipomoea sagittata	
Canna				Itea virginica	
Centella asiatica	/			Juncus effusus	
Cephalanthus occidentalis				*Juncus marginatus	
Ceratophyllum demersum				*Juncus megacephalus	
Chara sp.	/	/	/	Juncus repens	
Cladium jamaicense				*Juncus scirpoides	
Colocasia esculenta	/	/	/	Lachnanthes caroliniana	
*Commelina				Leersia hexandra	
Crinum americanum				Landoltia punctata (Spirodela punctata)	
* Cyperus alternifolius (C. involucratus)				Lemna sp.	
Cyperus articulatus				Leucothoe racemosa (Eubotrys racemosa)	
Cyperus haspan				Limnobium spongia	
*Cyperus lecontei				Limnophila sessiliflora	
*Cyperus polystachyos				Liquidambar styraciflua	
*Cyperus odoratus	/	/	/	*Ludwigia arcuata	
*Cyperus surinamensis				*Ludwigia grandiflora	
Cyrilla racemiflora				*Ludwigia hexapetala	/
Decodon verticillatus				*Ludwigia leptocarpa	/
Diodia virginiana				Ludwigia (native)	
*Echinochloa crus-galli				*Ludwigia octovalvis	/
*Echinochloa muricatum				*Ludwigia peruviana	/
Echinochloa walteri	/			*Ludwigia repens	/
Eclipta prostrata (E. alba)	/			Ludwigia suffruticosa	
Eichhornia crassipes				Luziola fluitans (Hydrochloa carolinensis)	
*Eleocharis				Magnolia virginiana	
Eleocharis cellulosa				Mayaca fluviatilis	
*Eleocharis elongata				Melaleuca quinquenervia - Viminalis	/
Eleocharis equisetoides	/			Micranthemum glomeratum	/
Eleocharis interstincta	/	/	/	Micranthemum umbrosum	/
Eleocharis submersed viviparous	/	/	/	Mikania scandens	/
*Eriocaulon compressum				Mimosa pigra	/
*Eriocaulon decangulare				Myrica cerifera	/
Eupatorium capillifolium					
Fraxinus					

no Dominant Sec. 1

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: <u>Prima Vista</u>					Date: <u>9/13/22</u>						
SPECIES	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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 mexicana						*Sesbania					
Nymphaea odorata						Solidago sp.					
Nymphoides aquatica						Sparganium americanum					
Nyssa sylvatica var. biflora						Spartina bakeri					
Orontium aquaticum						Spirodela polyrhiza					
Osmunda cinnamomea						Taxodium sp.					
Osmunda regalis						Thalia geniculata					
Panicum hemitomon						Thelypteris interrupta					
Panicum repens						Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum					
*Paspalum repens						Typha sp.					
Paspalum urvillei						Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia foliosa					
Persea sp.						*Utricularia gibba (U. biflora)					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.						Vallisneria americana					
*Polygonum glabrum (densiflorum)						Vigna luteola					
Polygonum hirsutum						Vitis sp.					
*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						not included not included in LVI taxa- KM					
*Rhexia											
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora nitens											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											

LVI MAP FOR WBID 3002E LAKE PRIMA VISTA

