



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REFERENCE LAKES FIELD SHEET

January 2020

Meter Passed End

of Day CCV

☒ Yes / ☐ No

WIN Station Name: Wildcat Lake @ Center

Date: 9/21/2021

WIN/Field ID: G2CE0053

WBID: 2905C

ENR: -

Latitude: 29.1638

County: LAKE

Org ID: 21FLCEN

Longitude: -81.63

Receiving Body of Water: Middle St. Johns

RQ: 2021-09-06-50

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: Visit ID: 83361 Macrophyte ID: 11982						LIMS: 2277463					
Notes: RAINED AND THEN SUNNY											

Duplicate Sample

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

Blank

Time Zone: EST	Time: 1500	Field ID: FB_09212021	(Blank Type_DDMYYYY)
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-2021-09-22-02	WIN Import ID: 30405
Enter Field Parameters, Verify Station ID In LIMS DMT: EB 9/27/21	QC Station ID, Field Parameters In LIMS DMT: KWM 11/16/21
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets KWM 1/5/22	Migrate Data to WIN: KWM 1/5/22
(Initials/Date)	(Initials/Date)
Verify Data In WIN:	
(Initials/Date)	



RQ-2021-09-06-50

Customer: WQAP

Project ID: SMP

Collected By: Terry Riordan, Victoria Schwartz

Field Report Prepared By: Terry Riordan

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G2CE0053

Location: Wildcat 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)		
	1433 EST	6.72	89.8	30.5	4.68	0.3	1.9 ☐ VOB (S)	5.2	45.3	0.02		
9/21/2021	1438	6.49	84.5	29	4.63	2	Central Lab please use top row for login purposes		45.5	0.02		
	1440 EST	4.58	58.9	28.3	4.53	4.7			46.4	0.02		
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 #	SA1105060		Exp:	4/30/22						
Metals (P-500ML)		☒ W-ICPMS ☒ W-ICP ☒ W-HARD				☒ Ice ☒ HNO3*		☒ <2	1	A		
		Lot #	NA0344060		Exp:	1/4/22						
Filtered Nutrients (P125ML)		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☒ Ice			1	A		
		Filter Lot #	17135566									
		Syringe Lot #	1112035									
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 ☐ 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						
Pesticides (BG-500ML) (BG-1L)		☐ W-E8321-DI	☐ WE8321-MS	☐ W-PSNP-TQ	☐ W-CT-CL-R	☐ Ice						
		☐ W-PCL-TQ-R	W-CARB-AA (5 ml of MCAA** Buffer Solution)									
Phytoplankton/Periphyton		☒ DTY-QN-C ☒ PKD-QN-BV				☒ Ice			1	A		
Name: Terry Riordan Victoria Schwartz					Signature: Victoria Schwartz				Date: 9/21/21			

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution



RQ- 2021-09-06-50

Customer: WQAP

Project ID: SMP

Collected By: Terry Riordan, Victoria Schwartz

Field Report Prepared By: Terry Riordan, Victoria Schwartz

Sampling Agency: FDEP

BLANK



Field ID: FB 09212021

Comments:

Matrix: Field Blank

(Check one) ☐ COMPOSITE ☒ GRAB

Date

Time

DI Source: Lab Sink

9/21/2021

1500

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	☒ Ice ☒ H2SO4	☐ <2	1	B
	Lot # SA1105060 Exp: 4/30/22				
Metals (P-500ML)	☒ W-ICPMS ☒ W-ICP	☒ Ice ☒ H2SO4	☒ <2	1	B
	Lot # NA344060 Exp: 1/4/22				
Filtered Nutrients (P125ML)	☒ W-PO4-F Filter ☒ Field Filtered 0.45 µm	☒ Ice		1	B
	Filter Lot # 17135566				
	Syringe Lot # 1112035				
Physical/Aggregate (Fresh) (P-1L)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-Cl-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			
Pesticides (BG-500ML) (BG-1L)	☐ W-E8321-DI ☐ WE8321-MS ☐ W-PSNP-TQ ☐ W-CT-CL-R ☐ W-PCL-TQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution)	☐ Ice			
Name: Terry Riordan Victoria Schwartz		Signature: <i>Victoria Schwartz</i>		Date: 9/21/21	

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

Ref. Lake

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: 29.1638
 COUNTY: Lake STORET #: G2CE0053 LONGITUDE: -81.63
 DATE: 9/21/21 TIME: 14:33 SAMPLING AGENCY: 21 FL CEN
 SITE NAME: Wildcat Lake WBID: 2905C
 FIELD ID/NAME: Wildcat Lake @ Center LAKE SIZE: _____ RQ: 2021-09-06-50

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : Forest/Natural <u>98</u> Silviculture _____ Field/Pasture _____ Agricultural _____ Residential _____ Commercial _____ Industrial _____ Other (Specify) <u>2</u>					LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: _____ Land Use Source & Year: _____				
Local Watershed Erosion (select one): ☒ None ☐ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy					Artificially Impounded ☐ Yes ☒ No				
STORMWATER INPUTS <u>19</u>		Stormwater enters system via sheet flow over non-cultivated and/or natural vegetation 20 <u>19</u> 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>18</u>		Very few man-made structures, roads, or other disturbance adjacent to lake (<10% lakeside affected) 20 19 <u>18</u> 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>19</u>		Expected native vegetation between uplands and littoral zone, greater than 90% of shore with >18 m buffer 20 <u>19</u> 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 ☐ No pH < 2 ☐ No Color Sample Taken? ☒ Yes ☐ No Lot # <u>SA1105060</u> Exp. Date: <u>4/30/22</u> Alkalinity Sample Taken? ☒ Yes ☐ No Water Level ☐ Low ☒ Normal ☐ High					Water Odors: ☒ Normal ☐ Sewage ☐ Petroleum ☐ Other _____				
Meter Readings: Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat. (%) Cond. (UMHO/CM) Salinity (PPT) Top: <u>0.3</u> <u>30.5</u> <u>4.68</u> <u>6.72</u> <u>89.8</u> <u>45.3</u> <u>0.02</u> Mid-Depth: <u>2.0</u> <u>29.0</u> <u>4.63</u> <u>6.49</u> <u>84.5</u> <u>45.5</u> <u>0.02</u> Bottom: <u>4.7</u> <u>28.3</u> <u>4.53</u> <u>4.58</u> <u>58.9</u> <u>46.4</u> <u>0.02</u>					Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____				
Meter ID: <u>Shrimp Trap</u>					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 SECCHI (M) <u>1.9</u> Total Station Depth (M) <u>5.2</u> 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 Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know					Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic				
Weather Conditions: <u>Overcast/rainy</u>					Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☒ Nuisance Plants ☐ ☒ ☐ ☐ Submersed Plants ☐ ☒ ☐ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐				
Additional Notes:									
SAMPLING TEAM: <u>T. Riordan / Victoria Schwartz</u>					SIGNATURE: <u>[Signature]</u>				
DATE: <u>9/21/21</u>									

WRB: 2905C

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Ref. Lake

Waterbody: <u>Windcat Lake</u>	County: <u>Lake</u>	Date: <u>9/21/21</u>
Analyst: <u>Terry Riordan / Victoria Schwartz</u>	Signature: <u>[Signature]</u>	STORET: <u>G2CE0053</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 <u>2, 5, 8, 11</u> 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	2	5	8	11	Collected? (✓)	SPECIES	2	5	8	11	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						Limnobia spongia					
*Cyperus lecontei						Limnophila sessiliflora					
*Cyperus polystachyos						Liquidambar styraciflua					
Cyperus odoratus						*Ludwigia arcuata					
Cyperus surinamensis						*Ludwigia grandiflora					
Cyrtilla 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 <u>baldwinii</u>	/	/	/	/		Magnolia virginiana	/	/	/	/	
Eleocharis cellulosa						Mayaca fluviatilis					
*Eleocharis elongata						Melaleuca quinquenervia					
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. 11

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site: Wildcat Lake		Date: 9/21/21			
SPECIES	25811	Collected? (✓)	SPECIES	25811	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)			semit edge → Bidens laevis	/	✓
Proserpinaca pectinata			climbing aster →	/	
*Rhexia			Symphotrichum carolinianum	/	
*Rhynchospora corniculata			Lyonia lucida	/	
*Rhynchospora inundata			2nd fringing shrub	/	
Rhynchospora nitens					
Ricciocarpus natans					
Sabal palmetto					
Sacciolepis striata					
*Sagittaria filiformis					
*Sagittaria graminea					
*Sagittaria isoetiformis					
Sagittaria lancifolia					
Sagittaria latifolia					

Wildcat lake 2905C

Ref. Lake

