



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2020

Meter Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name: Panther Lake @ Center of West Lobe

Date: 6/3/2021

WIN/Field ID: G4CE0164

WBID: 317012

ENR: -

Latitude: 28.428

County: ORANGE

Org ID: 21FLCEN

Longitude: -81.63

Receiving Body of Water: Kissimmee River

RQ: ~~2021-05-00-14~~

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
☒	Katie March	x		x		
☒	Leif Boman		x		x	x
☐						
☐						

Sampling Equipment	
☒ Sample Container	☐ Carboy
☐ Dipper	☐ Van Dorn
☒ Syringe	☐ Pole
Depth measured with: Sonar	
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# CRAW DADDY					
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 82512 MACROPHYTE 11831											
Notes: METER IS NOT CRAW DADDY. DR. PHIL'S METER, NOT AVAILABLE TO CHOOSE IN DROP DOWN LIST ON APP. BOTTOM READINGS ARE MAX METER CORD LENGTH. COOLER LOST IN TRANSIT, NO WATER CHEMISTRY OR METER READINGS FOR THIS LVI											

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

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

LIMS EVENT ID: _____	WIN Import ID: _____
Enter Field Parameters, Verify Station ID In LIMS DMT: _____	
(Initials/Date)	QC Station ID, Field Parameters In LIMS DMT: _____
(Initials/Date)	(Initials/Date)
Scan/Save Field Sheets _____	
(Initials/Date)	Migrate Data to WIN: _____
(Initials/Date)	Verify Data In WIN: _____
(Initials/Date)	(Initials/Date)



RQ-2021-05-03-14

Customer: WQAP

Project ID: SMP

Collected By: Katie March, Leif Boman

Field Report Prepared By: Katie March

Sampling Agency: FDEP

Place Label Here

WIN ID/Field ID:



G4CE0164

Location: Panther Lake @ Center of West Lobe

Comments:

COOLER LOST IN TRANSIT,
NO WATER CHEMISTRY
OR METER READINGS FOR
THIS LVI

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)
6/3/2021	1140 EST	7.51	96.7	28.4	7.22	0.3	2.8 ☐ VOB (S)	5.5	194.8	0.09
	1143	7.45	95.4	28.1	7.09	2.0	Central Lab please use top row for login purposes		194.6	0.09
	1146 EST	5.41	67.3	26.4	6.62	5			188.6	0.09

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 # SA1105060 Exp: 4/30/22	☒ Ice ☒ H2SO4*	☒ <2	1	A
Metals (P-500ML)	☐ W-ICPMS ☐ W-ICP ☐ W-HARD Lot # Exp:	☐ Ice ☐ HNO3*	☐ <2		
Filtered Nutrients (P125ML)	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter Filter Lot # 17135566 Syringe Lot # 1091364	☒ Ice		1	A
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			
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 ☐ W-PCL-SQ-R ☐ W-CARB-AA (5 ml of MCAA** Buffer Solution) ☐ W-DIELDRIN	☐ Ice			
Phytoplankton/Periphyton	DTM-QL-C ☐ PEN-QL-C ☐ DTY-QN-C ☐ PKD-QN-C DTM-QN-C ☐ PRN-QN-C ☐ PKD-QN-BV	☐ Ice			

Name:
Katie March
Leif Boman

Signature:

Date:

6/3/2021

*2.0 ml of Preservative used unless noted otherwise.

**MCAA: Monochloroacetic acid buffer solution

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: <u>Panther West</u>		County: <u>Orange</u>		Date: <u>6/3/21</u>							
Analyst: <u>Maria L Boman</u>		Signature: <u>[Signature]</u>		STORET:							
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							
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	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						Limnium 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						Magnolia virginiana					
Eleocharis cellulosa						Mayaca fluviatilis					
*Eleocharis elongata						Melaleuca quinquenervia					
Eleocharis equisetoides						Micranthemum glomeratum					
Eleocharis interstincta						Micranthemum umbrosum					
Eleocharis submersed viviparus						Mikania scandens					
*Eriocaulon compressum						Mimosa pigra					
*Eriocaulon decangulare						Myrica cerifera					
Eupatorium capillifolium											
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:					Date:				
SPECIES				Collected? (✓)	SPECIES				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.	X				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									
*Rhexia									
*Rhynchospora corniculata									
*Rhynchospora inundata									
Rhynchospora nitens									
Ricciocarpus natans									
Sabal palmetto									
Sacciolepis striata									
*Sagittaria filiformis									
*Sagittaria graminea									
*Sagittaria isoetiformis									
Sagittaria lancifolia	/	/	/						
Sagittaria latifolia									

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Orange STORET #: 64CE0164 LONGITUDE: _____
 DATE: 6/3/21 TIME: _____ SAMPLING AGENCY: _____
 SITE NAME: Panther West WBID: _____
 FIELD ID/NAME: _____ LAKE SIZE: _____ RQ: _____

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS):				<u>golf course</u>		LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)	
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)
<u>30</u>				<u>40</u>			<u>30</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		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	
<u>4</u>		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
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)	
<u>4</u>		20 19 18 17 16		15 14 13 12 11		10 9 8 7 6	
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	
<u>4</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: ☒ Clear		Color: ☒ Clear
Readings:									☐ Opaque ☐ Turbid		☐ Tannic ☐ Green
Top:		<u>0.3</u>	<u>28.4</u>	<u>7.22</u>	<u>7.51</u>	<u>96.7</u>	<u>194.8</u>	<u>0.09</u>	☐ Slightly Turbid		
Mid-Depth:		<u>2.0</u>	<u>28.1</u>	<u>7.09</u>	<u>7.45</u>	<u>95.4</u>	<u>194.4</u>	<u>0.09</u>			
Bottom:		<u>5</u>	<u>26.4</u>	<u>6.42</u>	<u>5.41</u>	<u>67.3</u>	<u>188.6</u>	<u>0.09</u>			
Meter ID: _____											
Sediment Type: (may check more than one)								Sediment Odors:			
☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☐ Vegetated								☒ Normal ☐ Other (Specify):			
☐ Sand/Silt ☐ Organic smooth (muck) ☐ 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											
Weather Conditions:											
SAMPLING TEAM: <u>K March, L Boman</u>								SIGNATURE: <u>K March</u>		DATE: <u>6/3/21</u>	

LVI Map for Panther Lake, WBID 317012

