



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV

Yes / No

WIN Station Name:	CLEAR LAKE CENTER				Sample Date:	5/22/2023	
WIN / Field ID:	G4SW0091	ORG ID:	21FLTPA	ENR:	-	Latitude:	28.34133
County:	PASCO	WBID:	1403	LAKE	3F	Longitude:	-82.26318
Receiving Body of Water:	-				RQ-	2023-04-24-12	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater	x		x		x
Ken Turman		x	x		

Sampling Equipment			
x	Sample Container		Carboy
	Dipper		Van Dorn
	Syringe		Pole
	Syringe Lot# 1145497		Filter Lot# 17232873
	Secchi Equipment ID:	Secchi #3	
Collection Method			
	Wading	x	Canoe/Kayak
	From Shore		Electric Motor
			Gasoline Motor
	Depth Measured With	Secchi	

Water Level:	Normal
Flow:	NA
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Leia
Depth Gauge ID:	depth_gauge

Time Zone	Time	Total Depth (m)	Sample Depth (m)	DO (mg/L)	DO (%SAT)	Temp. (°C)	pH	Secchi Disk (m)	Sp COND (µmhos/cm)	Salinity (PPTth)
EST	1230	7	0.3	8.37	113.3	30	8.19	1.9	162.7	0.08
	1230		2	8.33	108.1	28.9	8.14		161.3	0.07
	1230		4	6.4	82.6	28.3	7.89		162.8	0.08

Biological Samples Collected: None

SBIO Visit ID: 86915 HA ID: 18493 RPS ID: Macrophyte ID: 12446 LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation			
	Type	Lot#	Expiration Date	pH Check			
Microbiology							
Chlorophyll	CHLSUITE-W	ICE					
Physical/Aggregate	ALKALINITY, TURBIDITY, W-F, W-TSS	ICE					
Nutrients	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS	ICE					
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter	ICE		Syring Lot#:1145497; Filter Lot#:17232873		
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	SA3013020	01/25/24	H2SO4 pH<2	
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA2230040	09/01/23
Organics (LC)	W-E8321-DI	W-E8321-MS		Ice			
Macroinvertebrates							
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise		
Molecular							
Periphyton							
Phytoplankton							
BOD							
DOC					SyringLot#	FilterLot#	
Other(s)							
Field Comments:							
Comments on COC:							
Relinquish Date:	05/22/2023	Signature:					

LIMS EVENT ID: SW-DIST-2023-05-23-01

WIN Import ID: 41681

Enter Field Parameters, Verify Station ID In LIMS DMT: DM 6/5/2023

QC Station ID, Field Parameters In LIMS DMT: MM 6/15/2023

Save Field Sheets on Network: MM 7/24/2023 (Initials/Date)

Migrate Data to WIN: MM 7/24/2023 (Initials/Date)

(Initials/Date)

(Initials/Date)



Site Name: Clear Lake Center

 COUNTY: Pasco
 LAKE SIZE: mid
 WBID: 1403
 MACROPHYTE ID: _____

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS):										LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer)											
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industrial	Other (Specify)			LDI: 											
<u>10</u>		<u>20</u>		<u>70</u>						Land Use Source & Year: _____											
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy										Artificially Impounded ☐ Yes ☒ No											
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy																					
STORMWATER INPUTS <u>10</u>		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										
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
LAKESIDE ALTERATIONS <u>11</u>		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)										
		20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
BUFFER ZONE <u>5</u>		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										
		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:	
Nutrient Sample Taken? ☒ Yes ☐ No Preserved? ☒ Yes ☐ No pH < 2 ☐ No										☒ Normal	
Color Sample Taken? ☒ Yes ☐ No Lot # <u>522 FS</u> Exp. Date: _____										☐ Sewage ☐ Petroleum ☐ Other _____	
Alkalinity Sample Taken? ☒ Yes ☐ No										Water Surface Oils: ☒ None	
Water Level ☐ Low ☒ Normal ☐ High										☐ Sheen/Slick ☐ Glob ☐ Other _____	
Meter Readings:	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat. (%)	Cond. (UMHO/CM)	Salinity (PPT)	Clarity:		Color:	
Top:	<u>0.3</u>	<u>30.0</u>	<u>8.19</u>	<u>8.37</u>	<u>113.3</u>	<u>162.7</u>	<u>0.08</u>	☒ Clear	☒ Clear		
Mid-Depth:	<u>2</u>	<u>28.9</u>	<u>8.14</u>	<u>8.33</u>	<u>108.1</u>	<u>161.3</u>	<u>0.07</u>	☐ Opaque ☐ Turbid	☐ Tannic ☐ Green		
Bottom:	<u>4</u>	<u>28.3</u>	<u>7.89</u>	<u>6.40</u>	<u>82.6</u>	<u>162.8</u>	<u>0.08</u>	☐ Slightly Turbid			
Meter ID: <u>Leia</u>								SECCHI (M) <u>1.9</u>		Total Station Depth (M) <u>7m</u>	
Sediment Type: (may check more than one)								VOB ☐			
☒ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated								Sediment Odors: ☒ Normal ☐ Other (Specify): _____			
☐ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____								☐ Anaerobic			
Biological Communities:				Abundance:				Additional Notes:			
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: <u>Sunny Hot ~ 90°</u>											
SAMPLING TEAM: <u>Ben Paswater, Ken Turman</u>						SIGNATURE: <u>Ben Paswater</u>			DATE: <u>5/22/2023</u>		



Site Name: Clear Lake Center

Waterbody: <u>5</u>	County: <u>PGSC</u>
Signature: <u>[Signature]</u>	Date: <u>5/22/2023</u>

required. *Genera that may require lab verification*

 Lake units sampled (circle one group):
 1, 4, 7, 10 2, 5, 8, 11
 3, 6, 9, 12

Plants in bold = PLEPPC invasive exotics

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 (A-F)	2	5	8	11	Collected? (✓)	SPECIES (G-L)	2	5	8	11	Collected? (✓)
Acer rubrum	✓	✓				Gordonia lasianthus					
Alternanthera philoxeroides	✓		✓			Habenaria repens			✓		
Andropogon sp.						Hymenachne amplexicaulis					
Azolla filiculoides (A. caroliniana)						Hydrilla verticillata	✓	✓	✓	✓	
Baccharis sp.						Hydrocotyle sp.	✓	✓	✓	✓	
Bacopa caroliniana						Hygrophila polysperma					
Bacopa monnieri		✓	✓			*Hypericum fasciculatum					
Bidens laevis						*Hypericum hypericoides					
Bidens mitis						*Hypericum myrtifolium					
Blechnum serrulatum						Ilex cassine					
Boehmeria cylindrica		✓	✓	✓		Ipomoea aquatica					
Brasenia schreberi						Ipomoea sagittata					
Cabomba caroliniana						Itea virginica					
Casuarina equisetifolia						Juncus effusus	✓	✓	✓		
Centella asiatica						*Juncus marginatus		✓	✓	✓	
Cephalanthus occidentalis						*Juncus megacephalus		✓			
Ceratophyllum demersum						Juncus repens					
Chara sp.						*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana					
Cliftonia monophylla						Leersia hexandra					
Colocasia esculenta	✓	✓	✓	✓		Landoltia punctata (Spirodela punctata)					
*Commelina						Lemna sp.					
Crinum americanum						Leucothoe racemosa (Eubotrys racemosa)					
* Cyperus alternifolius (C. involucratus)						Limnium spongia					
Cyperus articulatus		✓	✓	✓		Limnophila sessiliflora					
Cyperus haspan		✓	✓	✓		Liquidambar styraciflua	✓		✓	✓	
*Cyperus lecontei		✓	✓	✓		*Ludwigia arcuata			✓	✓	
*Cyperus polystachyos			✓	✓		*Ludwigia leptocarpa					
*Cyperus odoratus		✓	✓	✓		*Ludwigia linearis					
*Cyperus surinamensis			✓	✓	✓	*Ludwigia octovalvis			✓	✓	
Cyrilla racemiflora						* Ludwigia peruviana	✓	✓	✓	✓	
Decodon verticillatus						*Ludwigia repens					
Diodia virginiana						*Ludwigia					
*Echinochloa crus-galli						Luziola fluitans (Hydrochloa carolinensis)					
*Echinochloa muricatum						Lyonia lucida					
Echinochloa walteri											
Eclipta prostrata (E. alba)		✓									
Egeria densa						Ptilium capillaceum				✓	
Eichhornia crassipes	✓	✓	✓								
*Eleocharis baldwinii						Big Grass					
*Eleocharis						Neyraudia reynaudiana					
Eleocharis cellulosa							✓	✓	✓	✓	Pic
Eleocharis equisetoides											
Eleocharis interstincta											
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium		✓	✓								
*Fuirena <u>Amila</u>			✓	✓	✓						
Fuirena scirpoidea											



Site Name: Clear Lake Center

Date: 5/22/2023

Name: Clear Lake Center		Date:		Date:							
SPECIES (M-P)	2	5	8	11	Collec ted? (✓)	SPECIES (R-Z)	2	5	8	11	Collec ted? (✓)
Magnolia virginiana						*Rhexia					
Mayaca fluviatilis						*Rhynchospora corniculata					
Melaleuca quinquenervia		✓				*Rhynchospora inundata					
Micranthemum glomeratum						Rhynchospora tracyi					
Micranthemum umbrosum						Ricciocarpus natans					
Mikania scandens	✓	✓	✓	✓		Sabal palmetto	✓	✓	✓		
Mimosa pigra						Sacciolepis striata					
Myrica cerifera	✓	✓				*Sagittaria filiformis	✓	✓	✓	✓	✓
Myriophyllum aquaticum						*Sagittaria graminea					
*Myriophyllum heterophyllum						*Sagittaria isoetiformis	✓	✓	✓	✓	✓
*Myriophyllum laxum						Sagittaria lancifolia	✓	✓	✓	✓	
*Myriophyllum pinnatum						Sagittaria latifolia					
Myriophyllum spicatum						Salix caroliniana		✓			
*Najas filifolia						Salvinia minima					
*Najas guadalupensis						Sambucus canadensis		✓			
*Najas minor						Sapium sebiferum					
Nelumbo lutea						Saururus cernuus					
Nitella spp.						Schinus terebinthifolius					
Nuphar sp.	✓			✓		*Schoenoplectus californicus (Cali bulrush)					
Nymphaea odorata						*Schoenoplectus pungens (three square)					
Nymphoides aquatica						*Schoenoplectus tabernaemontani (softstem)					
Nyssa sylvatica var. biflora	✓					Scirpus cubensis (Oxycaryon cubense)					
Orontium aquaticum						Scirpus cyperinus					
Osmunda cinnamomea						*Sesbania					
Osmunda regalis						Solidago sp.					
Panicum hemitomon	✓					Sparganium americanum					
Panicum repens	✓	✓	✓	✓		Spartina bakeri					
Paspalum geminatum						Sphagneticola trilobata (Wedelia)					
*Paspalum repens						Spirodela polyrrhiza	✓	✓	✓		
Paspalum urvillei						Taxodium sp.					
Peltandra sp.						Thalia geniculata					
Persea sp.						Thelypteris palustris					
Pennisetum purpureum						Triadenum virginicum					
Phragmites australis						Typha sp.	✓	✓	✓		
Pinus elliotii						Urochloa mutica (Brachiaria mutica)					
Pistia stratioides						*Utricularia gibba (U. biflora)					
Pluchea sp.		✓				*Utricularia floridana					
*Polygonum glabrum (densiflorum)				✓		*Utricularia foliosa					
*Polygonum hydropiperoides						*Utricularia inflata					
*Polygonum punctatum						*Utricularia purpurea					
*Polygonum sp.						*Utricularia cornuta					
Pontederia cordata			✓	✓		*Utricularia radiata					
*Potamogeton diversifolius						Vallisneria americana	✓	✓	✓	✓	
*Potamogeton illinoensis						*Websteria confervoides					
*Potamogeton pusillus						Wolffiella spp.					
*Potamogeton pectinatus						Woodwardia virginica					
Proserpinaca pectinata						Xyris sp.					
						Zizania aquatica					
						Zizaniopsis milacea					

Dunne Rd

CLEAR LAKE, WBID 1403

1403B

28.345227, -82.263455

28.344903, -82.260704

28.34382, -82.258378

28.341552, -82.2577

28.340158, -82.259765

28.339077, -82.262163

28.33694, -82.263446

28.338119, -82.265693

28.339608, -82.267854

28.341502, -82.26924

28.343259, -82.268105

28.343948, -82.265445

1

2

3

4

5

6

7

8

9

10

11

12

1403

Tradition Dr

St snu

Grove St

Abbey Ct

Service St

Pompano St

McMullen Dr

