

LVI

Site Name Lake Barber Sample Date 8/1/18

WBID 3036A1 WIN ID G2LE0152 RQ 2018-07-23-36

	Initial/Date	QC Initial/Date
Water chemistry data to LIMS	KWM AUG 03 2018	LB 08/21/18
Create SBIO station visit	KWM AUG 14 2018	n/a
Vascular Entry (add LIMS ID)	KWM AUG 14 2018	LB 08/22/18
Lake Observation Sheet Entry	KWM AUG 14 2018	LB 08/22/18
Authorize SBIO data	LB 08/22/18	n/a
Scan all sheets to 21FLCEN folder		n/a
LIMS/WIN migration		n/a
File in cabinet		n/a

Comments/notes:



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

April 2018

Data Qualified?

Yes / No

WIN Station Name: Lake Barber West of Center

Date: 8/1/18

WIN/ Field ID: G2CE0152

WBID: 3036A1

Latitude: 28.50049455

County: Orange

ORG ID: 21 FL CEN

Longitude: -81.32196312

Receiving Body of Water: Lake Barber West of Center

RQ-2018- 07-23-36

Sampling Team Members

Left Banana
Katie Marsh

WQ Measurements
Sample Collection
Documentation
Preservation
Preservation Check

Sampling Equipment

☒ Sample Container ☐ Van Dorn ☐ Pole
☐ Carboy ☒ Syringe
☐ Dipper ☐ Other

Depth Measured with SECCHI DISK LINE/ METER
Equipment ID (KNOTHEAD/67, LEADFOOT/NON, RUSTY/SCUD)

Collection Method

☐ Wading ☐ Canoe/Kayak
☐ From Shore ☒ Electric Motor
☐ Other ☐ Gasoline Motor

Water Level: Dry / Pooled / Low / Normal / High / Flooded

Meter ID# Boop-Non

Matrix: Fresh / Marine / DI

Photos: Yes ☒ No ☐

Flow: No Flow / Intermittent / Flowing / NA

Tide: Rising / Falling / Slack / NA

Tide Times: High Low

Time Zone	Time	Total Depth (m)	Sample Depth (m)	Secchi Disk (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (PPT)	Sp COND (µmhos/cm)	Temp. (C°)
EST	1106	6.3	0.3	2.5	6.94	92.7	7.28	0.06	141	30.36
CEN			5.8		2.30	28.6	6.61	0.07	145	29.49

Biological Samples Collected: None HA SCI RPS Algae ID LVS LVI Other:

SBIO ID Numbers: SBIO-ID: 70723 HA-ID: RPS-ID: N/A Macrophyte-ID: 11019 LIMS#: 2012654

Parameter Suite	Parameter Methods	Preservation	Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☐ H2SO4	<u>SA8085170</u>	<u>3/26/19</u>	☒ <2
Metals	☒ W-ICPMS ☒ W-ICP	☒ Ice ☐ HNO3	<u>NA8085170</u>	<u>3/8/19</u>	☒ <2
Filtered Nutrients	☐ W-PO4-F ☒ Field Filtered 0.45 µm Filter	☒ Ice	<u>13615055</u>		
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Marine)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Periphyton	☐ ALGAE-ID	☐ Ice			
Microbiology	☒ E Coli ☐ F Coli ☐ Enterococci	☒ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-E8321-DI ☐ W-E8321-MS	☐ Ice			
Pesticides	☒ W-PSNP-TQ ☒ W-CT-CL-R ☒ W-E8321-DI ☒ W-PCL-SQ-R ☒ W-E8321-MS ☒ W-CARB-AA	☒ Ice ☒ Other			

Notes:

20.49692403, -81.32054781

WIN ID / Field ID →

Lake Barber West of Center (3036A1)



G2CE0152

Signature: Katie Marsh

Date: 8/1/18

Enter Field Parameters, Verify Station ID In LIMS DMT: KWM AUG 03 2018

QC Station ID, Field Parameters In LIMS DMT:

Scan/Save Field Sheets

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: Orange STORET #: G2CE0152 LONGITUDE: _____
 DATE: 8/1/16 TIME: _____ SAMPLING AGENCY: _____
 SITE NAME: _____ WBID: 3036A1
 FIELD ID/NAME: Lake Barber West of Center LAKE SIZE: _____ RQ: 2018-07-23-36

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) ☐				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI:					
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>4</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>5</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>5</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 ☐ No 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 Readings: Top: <u>0.3</u> <u>30.3</u> <u>7.28</u> <u>6.98</u> <u>92.7</u> <u>141</u> <u>0.06</u> Mid-Depth: _____ Bottom: <u>5.8</u> <u>29.49</u> <u>6.61</u> <u>2.30</u> <u>28.6</u> <u>145</u> <u>0.07</u>						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____					
Meter ID: <u>Boop-Non</u>						Clarity: ☒ Clear ☐ Opaque ☐ Turbid ☐ Slightly Turbid					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated <u>macroalgae</u> ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____						Color: ☐ Clear ☐ Tannic ☒ Green					
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						SECCHI (M) <u>2.5</u> Total Station Depth (M) <u>6.3</u> VOB ☐					
Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☒ ☐ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☒ ☐ Exotic Apple Snails ☒ ☐ ☐ ☐						Sediment Odors: ☒ Normal ☐ Other (Specify): _____ ☐ Anaerobic					
Weather Conditions: <u>hot, breezy</u>											
SAMPLING TEAM: <u>Katie Mach, Lef Bonan</u>						SIGNATURE: <u>KMach</u>			DATE: <u>8/1/16</u>		

Waterbody: <u>Lake Barber</u>		County: <u>Orange</u>		Date: <u>8/1/18</u>							
Analyst: <u>K. March L. Baran</u>		Signature: <u>K. March</u>		STORET: <u>G2CE0152</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): <u>1, 4, 7, 10</u> 2, 5, 8, 11 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	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					
Cinnamomum camphora	/	/	/	/		*Juncus scirpoides					
Cladium jamaicense						Lachnanthes caroliniana	/	/	/	/	
Colocasia esculenta						Leersia hexandra					
*Commelina						Landoltia punctata (Spirodela punctata)					
Crinum americanum						Lemna sp.					
*Cyperus alternifolius (C. involucratus)						Leucothoe racemosa (Eubotrys racemosa)					
Cyperus articulatus						Limnium spongia					
Cyperus haspan						Limnophila sessiliflora					
*Cyperus lecontei						Liquidambar styraciflua					
*Cyperus polystachyos						*Ludwigia arcuata					
*Cyperus odoratus						Ludwigia hex-grand-uruguayensis complex**					
*Cyperus surinamensis						*Ludwigia leptocarpa					
Cyrtilla racemiflora						Ludwigia (native)					
Decodon verticillatus						*Ludwigia octovalvis					
Diodia virginiana				/		*Ludwigia peruviana					
*Echinochloa crus-galli						*Ludwigia repens					
*Echinochloa muricatum						Ludwigia suffruticosa					
Echinochloa walteri						Luziola fluitans (Hydrochloa carolinensis)					
Eclipta prostrata (E. alba)						Magnolia virginiana					
Eichhornia crassipes						Mayaca fluviatilis					
*Eleocharis						Melaleuca quinquenervia	/	/	/	/	
Eleocharis cellulosa						Micranthemum glomeratum					
*Eleocharis elongata						Micranthemum umbrosum					
Eleocharis equisetoides						Mikania scandens	/	/	/	/	
Eleocharis interstincta						Mimosa pigra	/	/	/	/	
Eleocharis submersa viviparous	/	/	/	/		Myrica cerifera	/	/	/	/	
*Eriocaulon compressum											
*Eriocaulon decangulare											
Eupatorium capillifolium		/	/	/							
Fraxinus											

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Site:						Date:					
SPECIES	1	4	7	10	Collected? (✓)	SPECIES	1	4	7	10	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 gibba (U. biflora)					
Persea sp.						*Utricularia foliosa					
Pennisetum purpureum						*Utricularia inflata					
Phragmites australis						*Utricularia purpurea					
Pinus elliotii						*Utricularia radiata					
Pistia stratioides						*Utricularia resupinata					
Pluchea sp.		/	/	/		Vallisneria americana					
*Polygonum glabrum (densiflorum)		/	/	/		Vitis sp.					
Polygonum hirsutum	/	/	/	/		*Websteria confervoides					
*Polygonum hydropiperoides	/	/	/	/		Wedelia trilobata (Sphagneticola trilobata)					
*Polygonum punctatum						Wolffiella spp.					
*Polygonum						Woodwardia virginica					
Pontederia cordata	/	/	/	/		Xyris sp.		/	/	/	
*Potamogeton diversifolius	/	/	/	/		Zizania aquatica					
*Potamogeton illinoensis						Zizaniopsis milacea					
*Potamogeton pusillus						Rumex		/	/	/	
*Potamogeton pectinatus (Stuckenia pectinatus)						Vigna					
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											

LVI Map for LAKE BARBER, WBID 3036A1

