

RQ#: 2016-06-06-40 EventID# _____

Sampling Date: 6-9-16 Sampling Crew: J. ASHTON, S. CLINEMAN

LAKE HARVEY

Site(s)/STORET #: 615120001

STORET /LIMS:

Sonde: Pass / failed CCV
Parameter(s): _____

- ☐ 1. Spread Sheet (LIMS Input) _____ / _____
Initials Date
- ☐ 2. QC 1 _____ / _____ ☐ 3. QC 2 _____ / _____
Initials Date Initials Date
- ☐ 4. SIM File Generated _____ / _____
Initials Date
- ☐ 5. STORET Upload _____ / _____
Initials Date

Biology:

SBIO ID# _____
VPDB ID# _____

- ☐ 6. Site and Event established in SBio?
- ☐ 7. Habitat Data and YSI Entered Into SBIO _____ / _____
Initials Date
- ☐ 8. Habitat Data and YSI QC _____ / _____
Initials Date
- ☐ 9. SBio data marked complete _____ / _____
Initials Date
- ☐ 10. Macrophyte Data Entered into VPDB _____ / _____
Initials Date
- ☐ 12. Field Paperwork Filed In Biology Lab _____ / _____
Initials Date
- ☐ 13. Macrophyte Data QC _____ / _____ 11. Macrophyte Data Marked Complete _____ / _____



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

February 2016

A-KIT

PAGE 1 OF 1

Data Qualified?
Yes ☒ No ☐

STORET Station Name: LAKE HARVEY

Date: 6-9-16
(mm/dd/yyyy)

STORET Station ID: 615W0001

Latitude: 28.163765717 N
(Decimal Degrees)

WBID: 1463D

RQ: 2016-06-06

ORG ID: 21FLTPA

Longitude: 82.48614375 W
(Decimal Degrees)

Receiving Body of Water:

Field ID: 615W0001

County: HILLS

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
JUDY ASHTON						X	X		
STEPHEN CLINGERMAN					X			X	X

Sampling Equipment		
☒ Sample Container	☐ Van Dorn	☐ Pole
☐ Carboy	☐ Syringe	
☐ Dipper	☐ Other	
Equipment ID		
Collection Method		
☐ Wading	Via Boat	
☐ From Shore	☒ Canoe/Kayak	
☐ Other (note below)	☒ Electric Motor	
	☐ Gasoline Motor	

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

Matrix: Fresh / Marine / DI

Meter ID# 615W0001

Photos: Yes / No

Tide Falling: Yes / No / NA

Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (umhos/cm)	Temp. (C°)
EST	11:20	0.3	3.2	7.2	95	6.5	0.07	1.4	148	29.6
CEN		2.7		2.9	37	6.1	0.07		162	27.6

Biological Samples Collected: None HA SCI LVS RPS LVI Other

Parameter Suite	Parameter Methods	Preservation	Acid Lot#	Expiration	pH Check
Preserved Nutrients	☒ W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	☒ Ice ☒ H2SO4			☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3			☐ <2
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 um Filter	☒ Ice			
Chlorophyll	☒ CHLSUITE-W	☒ Ice			
BOD	☐ BOD-UNIN	☐ Ice			
Physical/Aggregate (Kit A)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CL-IC / W-COLOR / W-SO4-IC / W-TDS	☒ Ice			
Physical/Aggregate (Kit B)	☐ Alkalinity / W-F / W-TSS / TURBIDITY	☐ Ice			
Macroinvertebrates	☐ MI-FW-QLDC	☐ Formalin			
Microbiology	☐ E Coli ☐ F Coli ☐ Entero ☐ QPCR	☐ Ice			
Periphyton	☐ ALGAE-ID	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH	☐ Ice ☐ Other			

Flow m/s

"J" Qualify Flow

Notes:

2 DAYS AFTER TROPICAL
STORM COLIN

RQ-2016-06-06-40
Date: 06/09/16
Time:



Signature:

[Signature]

Date:

6-9-16

Field Parameters Entered into LIMS:

(Initials/Date)

Field Parameters QC in LIMS:

(Initials/Date)

Date Migrated to STORET:

(Initials/Date)

Field Sheets Scanned/Saved:

(Initials/Date)

Site: LAKE HARVEY

Date: 6-9-16

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.		Scirpus cyperinus	
Nymphaea odorata		*Sesbania	
Nymphoides aquatica		Solidago sp.	
Nyssa sylvatica var. biflora		Sparganium americanum	
Orontium aquaticum		Spartina bakeri	
Osmunda cinnamomea		Spirodela polyrhiza	
Osmunda regalis		Taxodium sp.	
Panicum hemitomon		Thalia geniculata	
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 floridana	
Pennisetum purpureum		*Utricularia foliosa	
Phragmites australis		*Utricularia inflata	
Pinus elliotii		*Utricularia purpurea	
Pistia stratioides		*Utricularia cornuta	
Pluchea sp.		*Utricularia radiata	
*Polygonum glabrum (densiflorum)		Vallisneria americana	
*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)		VITIS	
Proserpinaca pectinata		SPERMATOPHYTES	
*Rhexia			
*Rhynchospora corniculata			
*Rhynchospora inundata			
Rhynchospora tracyi			
Ricciocarpus natans			
Sabal palmetto			
Sagittaria striata			
*Sagittaria filiformis			
*Sagittaria graminea			
*Sagittaria isoetiformis			
Sagittaria lancifolia			
Sagittaria latifolia			

SAMPLE ID: _____ MACROPHYTE ID: _____ LATITUDE: _____
 COUNTY: HILLS STORET #: 615100001 LONGITUDE: _____
 DATE: 6-9-16 TIME: 11:20 SAMPLING AGENCY: WALP
 SITE NAME: LAKE HARVEY WBID: 1463D
 FIELD ID/NAME: 615100001 LAKE SIZE: 2 RQ: 2016-06-09-16

WATERSHED / LAKESIDE FEATURES

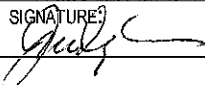
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS): Forest/Natural <u>30</u> Silviculture <u> </u> Field/Pasture <u> </u> Agricultural <u>30</u> Residential <u>40</u> Commercial <u> </u> Industrial <u> </u> Other (Specify) <u> </u>				LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: <u> </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 <u>13</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>13</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>10</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 ☐ 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>29.6</u> <u>6.5</u> <u>7.2</u> <u>95</u> <u>148</u> <u>0.07</u> Mid-Depth: _____ Bottom: _____								Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other _____							
Meter ID: <u>LIL JON</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							
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 ☒ ☐ ☐ ☐							
Weather Conditions: <u>SCATTERED SHOWERS -</u> <u>TROPICAL STORM COLIN TWO DAYS PRIOR TO EVENT</u>								Additional Notes:							
SAMPLING TEAM: <u>JOEY ASHTON, STEPHEN CLIMBERMAN</u>								SIGNATURE: <u>[Signature]</u>							
								DATE: <u>6-9-16</u>							

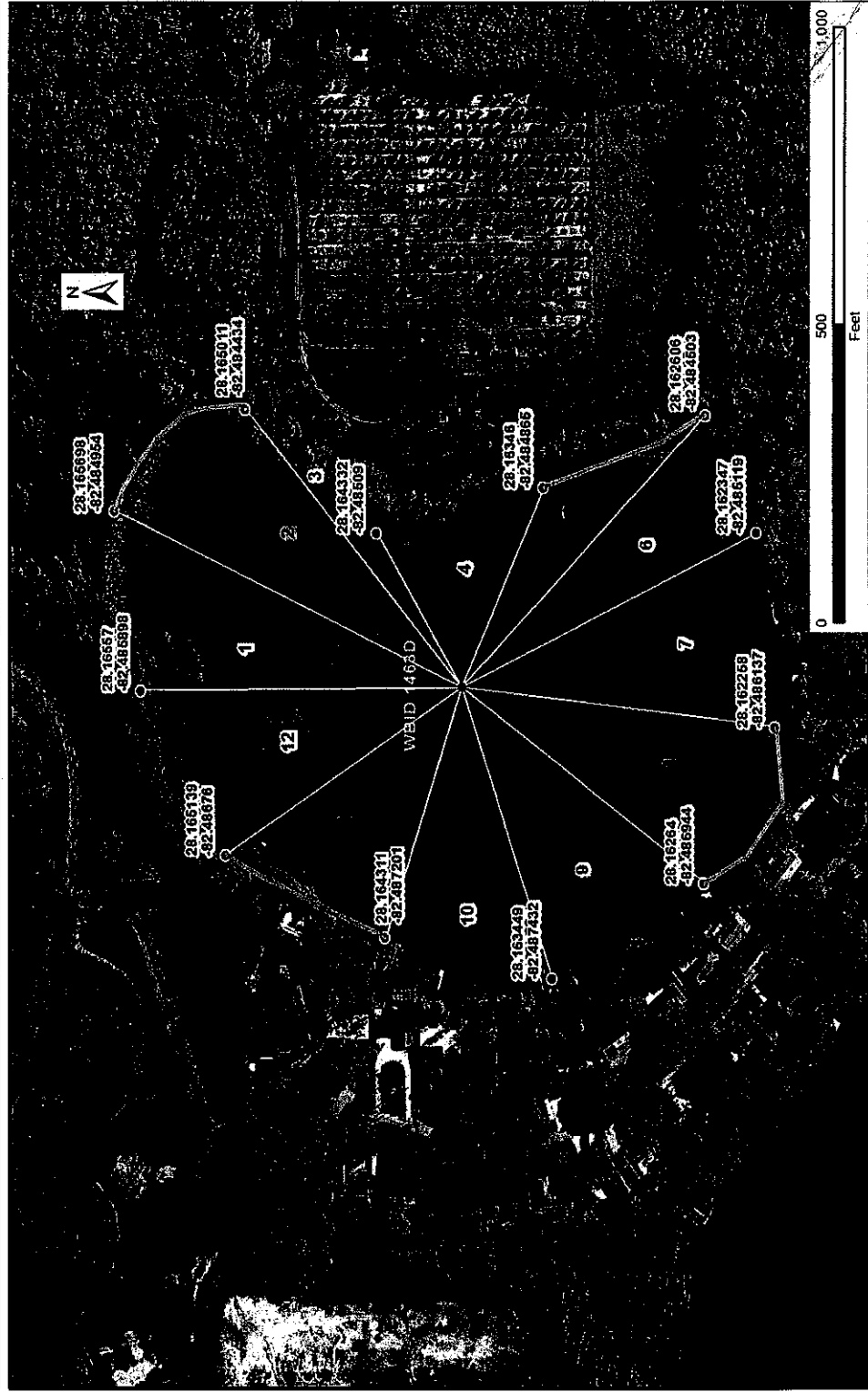
DEP Form FD 9000-6: Lake Habitat Assessment Field Sheet

STORET STATION NUMBER: 615100001	DATE (M/D/Y) 6-9-16	LAKE NAME LAKE HARVEY		FIELD ID / NAME: 615100001																	
ECO-REGION:	COUNTY: HILLS	SAMPLING LOCATION/DESCRIPTION: HILLS CO WOB 1463D		LAKE SIZE: L																	
PARAMETER	No surface inflow or outflow present, very long water residence time, groundwater seepage dominates ☐	Surface water inflow present, but flow is rare, moderate to long water residence time ☒		Surface water inflow and outflow present (or outflow only), sometimes with visible flow, short water residence time ☐																	
HYDROLOGY				Impounded, hydrology of system artificially controlled ☐																	
Color	Very clear, uncolored water (benthic sampling appropriate) ☒	Water somewhat tannin stained (benthic sampling appropriate) ☐		Dark, discolored water (water color 20 PCU or higher) ☐																	
	Optimal	Suboptimal		Marginal																	
Secchi ☐ 11	Secchi > 3 m Or VOB	Secchi(m)	3	2.6	2.2	1.8	1.4	1.0	0.9	0.8	0.7	0.6	0.5	0.4	0.3	0.2	0.1				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Vegetation Quality ☐ 15	Diverse, expected native vegetation (emergent or submersed), less than 5% nuisance taxa	Mostly expected native plants, but moderate growths (6%-20% of lake) of nuisance macrophytes, or more than 50% of lake covered with plants		Large masses (21%-40%) of nuisance macrophytes (e.g., Hydrilla, hyacinth, cattail, etc.) or algal mats		Lake choked (>40%) with nuisance macrophytes (duckweed, hyacinth, etc.) or algal mats, or few plants present at all (e.g., plants removed)															
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Stormwater Inputs ☐ 13	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	
Bottom Substrate Quality ☐ 13	Diverse mixture of sand, detritus, with small amounts of CPOM/mud/muck. SAV may be present	Mixture of sand or clay and detritus with higher % CPOM/mud/muck content. SAV may be present		Moderate layer of CPOM/ mud/muck, or hardpacked sand only, or moderate algal growth (mats or Chara) on bottom		Thick deposits of CPOM, or fine detritus and anaerobic muck/mud/silt, or algal growth or nuisance plants (Hydrilla) cover bottom															
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
Lakeside Adverse Human Alterations ☐ 13	Very few man-made structures, roads, or other disturbance adjacent to lake (<10%)	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	
Upland Buffer Zone ☐ 10	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	
Adverse Watershed Land Use ☐ 11	Score the potential effects from adverse human land uses, based on a continuum of amount and type, with least to most adverse as follows: Native vegetation, Silviculture, Pasture or Citrus, Low Density Residential, Row Crops, Commercial, High Density Residential, Urban, Industrial																				
	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
TOTAL SCORE ☐ 86	COMMENTS:																				

ANALYSIS DATE: 6-9-16	ANALYST: JOY ASHROU	SIGNATURE: 
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2, 5, 8, 11

LVI Map for LAKE HARVEY, WBID 1463D



Date Saved: 9/29/2014

Current Date: 12/10/2014

Request Number: RQ-

Florida Department of Environmental Protection
Central Laboratory Submittal Form

Page 1 of 2

2016-06-06-40

last revised Apr 7, 2016

Customer: SW-DIST

Requester: Judy Ashton

Field Report Prepared By: Judy Ashton

Project ID: SMP

Collected By: Judy Ashton / S. Wiseman

Sampling Agency: FDEP

Location	LAKE HARVEY		Comp		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
Field ID	RQ-2016-06-06-40		Grab		Date 6-9-16 Time 11:20		Date		(See pg 2)	
SI	G1SW0001		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
La	dd dms		Temp (C)		pH		ft		Sp. Conductance	
	dd dms		Salinity (ppt)		Comments		m		14B	
Location	LAKE HARVEY		Comp		Collection (comp begin or grab)		Composite end		Bottle Group(s)	
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STORET #	G1SW0001		Matrix (type, e.g., Salt, Fresh, etc)		Diss. Oxygen		mg/L		Total Res. Chlorine	
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Latitude	dd dms		Temp (C)		pH		ft		Sp. Conductance	
	dd dms		Salinity (ppt)		Comments		m		14B	

Relinquished By:	Date/Time	Shipping Method	Number of Coolers Shipped:	Received By:	Date/Time
Judy Ashton	6-9-16 5:00	FED EX	1		