



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes

No

Location/STORET Station Name: Sand Hammock Pond at Center (also, 32010038)

Date: 08/12/2019
(mm/dd/yyyy)

WIN ID G3NW0077

WBID: 61A

Latitude: 30.97652

County: Holmes

RQ: 2019-07-22-18

ORG ID: 21FLPNS

Longitude: -85.63658

(Decimal Degrees)

Receiving Body of Water: Texas Br.

Field ID: G3NW0077

(Decimal Degrees)

Sampling Team Members					WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Frank Butera									
Mike King									

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

Equipment ID

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

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

Meter ID#

Matrix: Fresh Marine / DI

Photos: Yes / No

Flow: No Flow / Intertidal / 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	1200	2.8	0.3	1.5	5.28	72.5	5.93	0.01	25.8	31.8
<u>CEN</u>			2.3		2.85	38.6	5.87	0.01	30.0	31.1

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

SBIO ID Numbers: SBIO-ID: 80120 HA-ID: 16227 RPS-ID: N/A Macrophyte-ID: 11471 LIMS#: 2110889

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	SA9010030	04/01/2020	☒ <2
Metals	☐ W-ICPMS ☐ W-ICP	☐ Ice ☐ HNO3	NA9099030	04/09/2020	☐ <2
Filtered Nutrients	☒ W-PO4-F ☐ Field Filtered 0.45 µm Filter	☐ Ice	16570048		
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 Coll ☐ F Coll ☐ Enterococci	☐ Ice			
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULL2 ☐ PCR-GFD	☐ Ice			
Tracers	☐ W-SUC-AA-R ☐ W-UHERB-AA ☐ W-AHERB-AA	☐ Ice			
Pesticides	☐ W-PSNP-TQ ☐ W-UHERB-AA ☐ W-AHERB-AA ☐ W-CARB-AA ☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R	☐ Ice ☐ Other			

Place Preservative Sticker(s) Here
(If Available)

Notes:

Ref: Date: 08Jul19 SHIPPING: 0.00
Dep: Wgt: 10.00 LBS SPECIAL: 0.00
DV: 0.00 HANDLING: 0.00
TOTAL: 0.00

Src: PRIORITY OVERNIGHT
TRCK: 4751 8781 4127

Field/WIN ID →



G3NW0077

Location:
Sand Hammock Pond at Center (also, 32010038)

Signature:

Date:

Enter Field Parameters, Verify Station ID In LIMS DMT:

QC Station ID, Field Parameters In LIMS DMT:

Can/Save Field Sheets

Migrate Data to WIN:

Verify Data In WIN:

(Initials/Date)

(Initials/Date)

(Initials/Date)

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 80124 MACROPHYTE ID: 11471 LATITUDE: N 30.97652
 COUNTY: Holmes (Esto) STORET #: G3NW0077 LONGITUDE: W -85.63658
 DATE: 8/12/2019 TIME: 10:00-12:30 (check 12:00) SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Sand Hammock Pond (Center) R2-2019-07-22-18 WBID: 61A
 FIELD ID/NAME: G3NW0077 LAKE SIZE: 42 RQ: 2019-07-22-18

WATERSHED / LAKESIDE FEATURES WBID 61A LIMS 202110889

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: <u>2.52 (2008)</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>12</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	
		20 19 18 17 16 15 14 13 12 11 10 9 8 7 6		Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place	
LAKESIDE ALTERATIONS <u>14</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)	
		20 19 18 17 16 15 14 13 12 11 10 9 8 7 6		Many structures, roads or other human disturbance visible (50%-70% lakeside affected)	
BUFFER ZONE <u>14</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	
		20 19 18 17 16 15 14 13 12 11 10 9 8 7 6		50%-30% of shoreline with >18m buffer or 50%-74% with 10m to 18m buffer	
		20 19 18 17 16 15 14 13 12 11 10 9 8 7 6		< 29% of shoreline with >18m buffer	

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>SA7341020</u> Exp. Date: <u>4/2/2016</u> Alkalinity Sample Taken? ☒ Yes ☐ No <u>SA9010030 4/1/20 (PS)</u> 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>31.8</u> <u>5.93</u> <u>5.28</u> <u>72.5</u> <u>25.8</u> <u>0.41</u> Mid-Depth: ☐ ☐ ☐ ☐ ☐ ☐ ☐ Bottom: <u>2.3</u> <u>31.1</u> <u>5.87</u> <u>2.85</u> <u>30.6</u> <u>30.0</u> <u>0.01</u> Meter ID:				Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ Other			
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☒ Sand/Silt ☒ Organic smooth (muck) ☐ Other (Specify):				Sediment Odors: ☒ Normal ☐ Other (Specify): ☐ Anaerobic			
Biological Communities: LVI Conducted? ☒ Yes ☐ No Phytoplankton Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot #: Exp Date: <u>Yes</u> <u>No</u> Algal Bloom/Algal ID Sample Taken? ☐ Yes ☒ No ☐ Don't Know Active Vegetation Mgmt? ☐ Yes ☒ No ☐ Don't Know				Abundance: Absent Rare Common Abundant Periphyton ☐ ☐ ☐ ☒ Nuisance Plants ☐ ☐ ☒ ☐ Submersed Plants ☐ ☐ ☐ ☒ Exotic Apple Snails ☒ ☐ ☐ ☐			
Weather Conditions: <u>Sunny. Heat Index 110+°F</u>				Additional Notes: <u>Water Lilies have grown, blocking access to shoreline.</u>			
SAMPLING TEAM: <u>Frank Butera, Mike King</u>				SIGNATURE: <u>[Signature]</u>			
				DATE: <u>8/12/2019</u>			

STATE OF FLORIDA, DEPARTMENT OF ENVIRONMENTAL PROTECTION
Lake Habitat Assessment Field Sheet

Storet/ WIN ID NUMBER: G3NW0077	DATE (M/D/Y) 08/22/2019	LAKE NAME: Sand Hammock Pond, Center		FIELD ID / NAME: G3NW0077
ECO-REGION: 61A	COUNTY: Holmes	SAMPLING LOCATION/DESCRIPTION: Esto, FL		LAKE SIZE: 52 Acres
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	Impounded, hydrology of system artificially controlled
HYDROLOGY	☐	☐	☐	☒
Color	Very clear, uncolored water (benthic sampling appropriate) ☐	Water somewhat tannin stained (benthic sampling appropriate) ☒	Dark, discolored water (water color 20 PCU or higher) ☐	Visibility extremely reduced due to high color ☐
	Optimal	Suboptimal	Marginal	Poor
Secchi	Secchi > 3 m Or VOB	Secchi(m)		
11	20 19 18 17 16	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
		15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Vegetation Quality	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)
10	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
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	Much direct input of stormwater (ditches, pipes, cultivated vegetation > 51%) and no or ineffective BMPs in place
12	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bottom Substrate Quality	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
8	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Lakeside Adverse Human Alterations	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)
10	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Upland 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	< 29% of shoreline with >18m buffer
14	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Adverse Watershed Land Use	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			
10	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1

TOTAL SCORE

75

COMMENTS:

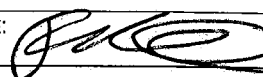
Vegetation Choked Lake margins (Edges) from boat access.

ANALYSIS DATE:

8/2/2019

ANALYST: Frank Butera,

SIGNATURE:



SBIO ID:

80120

HA ID:

16227

RQ:2019-07-22-18

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Sand Hammock Pond, Center				County: Holmes (Esto)				Date: 8/12/2018			
Analyst: F. Butera				Signature: <i>[Signature]</i>				STORET: G3NW0077			
Except where noted as "sp." species level identification required. *Genera that may require lab verification*								Lake units sampled (circle one group):			
Plants in bold = FLEPPC invasive exotic.								1, 4, 7, 10 2, 5, 8, 11			
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.								3, 6, 9, 12			
SBIO ID 30120	2	5	8	11	Collect ed? (✓)	Macro ID	2	5	8	11	Collect ed? (✓)
SPECIES	1	4	7	10		SPECIES	1	4	7	10	
Acer rubrum						Habenaria repens					
Alternanthera philoxeroides						Hydrilla verticillata					
Andropogon sp.						Hydrocotyle sp.					
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma					
Baccharis sp.						*Hypericum fasciculatum					
Bacopa caroliniana						*Hypericum hypericoides					
Bacopa monnieri						*Hypericum myrtifolium					
Bidens laevis						Ilex cassine					
Bidens mitis						Ipomoea aquatica					
Blechnum serrulatum						Ipomoea sagittata					
Boehmeria cylindrica						Itea virginica					
Brasenia schreberi						Juncus effusus					
Cabomba caroliniana						*Juncus marginatus					
Casuarina equisetifolia						*Juncus megacephalus					
Centella asiatica						Juncus repens					
Cephalanthus occidentalis						*Juncus scirpoides					
Ceratophyllum demersum						Lachnanthes caroliniana					
Chara sp.						Leersia hexandra					
Cladium jamaicense						Landoltia punctata (Spiro. punctata)					
Cliftonia monophylla						Lemna sp.					
Colocasia esculenta						Leucothoe racemosa (E. racemosa)					
*Commelina						Limnium spongia					
Crinum americanum						Limnophila sessiliflora					
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua					
Cyperus articulatus						*Ludwigia arcuata					
Cyperus haspan						*Ludwigia leptocarpa					
*Cyperus lecontei						*Ludwigia linearis					
*Cyperus polystachyos						*Ludwigia octovalvis					
*Cyperus odoratus						*Ludwigia peruviana					✓
*Cyperus surinamensis						*Ludwigia repens					
Cyrtilla racemiflora						*Ludwigia <i>grandiflora</i>					
Decodon verticillatus						Luziola fluitans (H. carolinensis)					
Diodia virginiana						Lyonia lucida					
*Echinochloa crus-galli						Magnolia virginiana					
*Echinochloa muricatum						Mayaca fluviatilis					
Echinochloa walteri						Melaleuca quinquenervia					
Eclipta prostrata (E. alba)						Micranthemum glomeratum					
Egeria densa						Micranthemum umbrosum					
Eichhornia crassipes						Mikania scandens					
*Eleocharis baldwinii						Mimosa pigra					
*Eleocharis <i>virginiana (C. 2017)</i>						Myrica cerifera					
Eleocharis cellulosa						<i>Ludwigia umb. n. 2017</i>					✓
Eleocharis equisetoides						<i>Cyperus</i>					
Eleocharis interstincta						<i>Blue-Gum Alga</i>					
*Eriocaulon compressum						<i>Erigeron g. 2017</i>					
*Eriocaulon decangulare											
Eupatorium capillifolium											
*Fuirena											
Fuirena scirpoidea											
Gordonia lasianthus											

RQ-2018-08-27-06

LIMS ID 2110889

RQ-2019-07-22-18

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Sand Hammock Pond, Center Storet: G3NW0077				Date: 8/12/2019	SBIO ID: 80120	Macro ID:					
SPECIES	2	5	8	11	Collect ed? (✓)	SPECIES	2	5	8	11	Collect ed? (✓)
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					
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 (Sphag. trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica					
*Potamogeton diversifolius						Xyris sp.					
*Potamogeton illinoensis					✓	Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						Nymphoides cordata					
Proserpinaca pectinata						Rhynchospora sp.					
*Rhexia						U. fls					
*Rhynchospora corniculata											
*Rhynchospora inundata											
Rhynchospora tracyi											
Ricciocarpus natans											
Sabal palmetto											
Sacciolepis striata											
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											
Pinus sp					✓						

RQ-2018-08-27-06

*Schoenoplectus tabernaemontani = Scirpus validus

Lms ID 2110889

RQ-2019-07-22-18

DEP-SOP-001/01
FS 7000 General Biological Community Sampling

Form FD 9000-2: COMPOSITE LAKE SAMPLING SHEET (< 1000 ACRES)

Date: 8/2/2019	Sand Hammock Pond	Gear used: PONAR	EKMAN	OTHER	
Comments:					
Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1	2.0	sand, silt/clay, CPOM, muck, SAV	7		sand, silt/clay, CPOM, muck, SAV
2		sand, silt/clay, CPOM, muck, SAV	8		sand, silt/clay, CPOM, muck, SAV
3		sand, silt/clay, CPOM, muck, SAV	9		sand, silt/clay, CPOM, muck, SAV
4		sand, silt/clay, CPOM, muck, SAV	10		sand, silt/clay, CPOM, muck, SAV
5		sand, silt/clay, CPOM, muck, SAV	11		sand, silt/clay, CPOM, muck, SAV
6		sand, silt/clay, CPOM, muck, SAV	50-12	2.8	sand, silt/clay, CPOM, muck, SAV

CPOM = coarse particulate organic matter; SAV = submerged aquatic vegetation

WIN ID: G3NW0077

Field ID G3NW0077

RQ-2019-07-22-18

SBIO ID:

80120

WBID 61A

Project. TMDL Studies (SMP 2019)

Paste map here and show location of each dredge drop and where water chemistry parameters were collected.

Revision Date: February 1, 2004

Photo Log

Storet G3NW0077

Station Name: Sand Hammock Pond, Center

Date: 08/12/2019

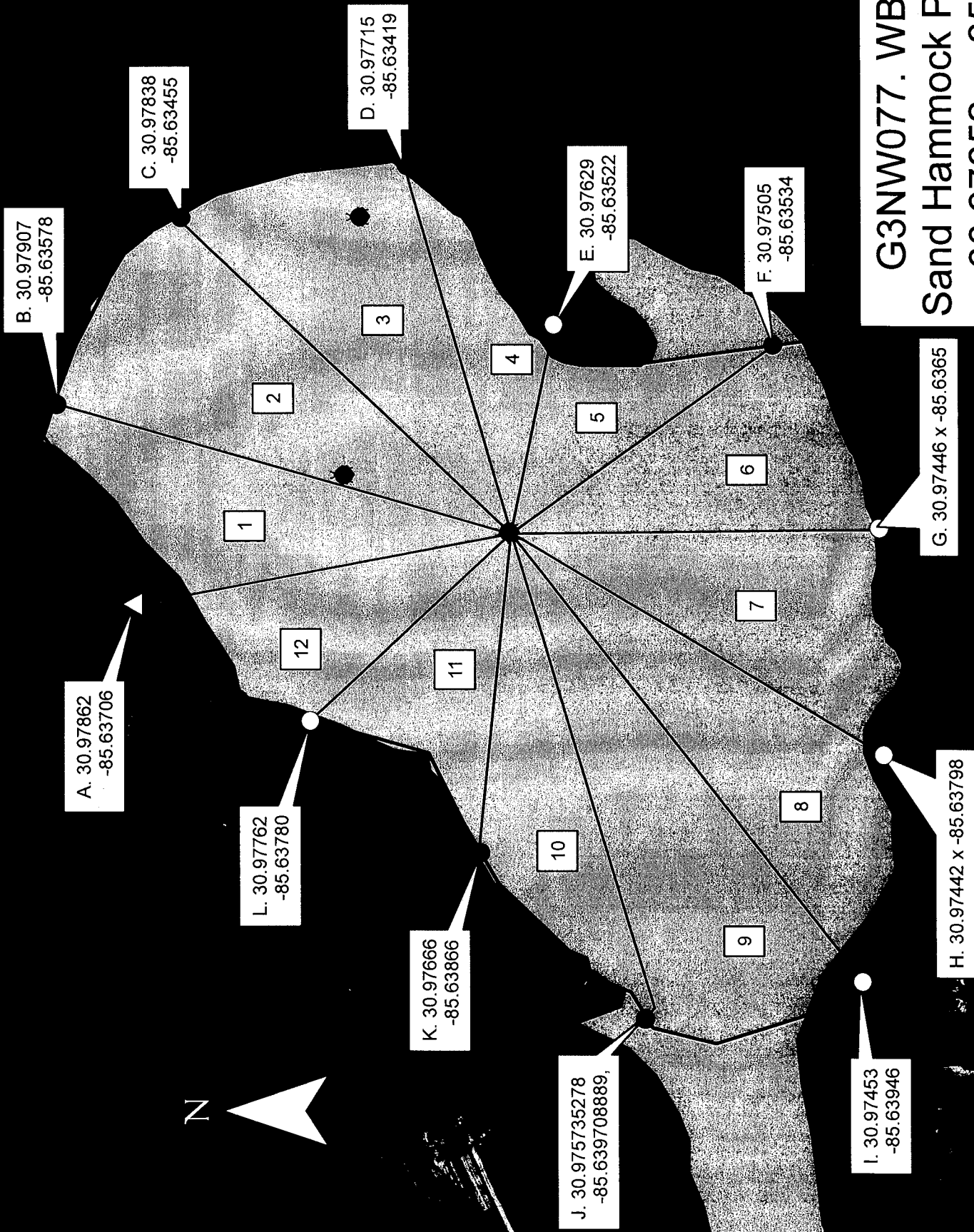
Samplers. F. Butera, M. King

- 1
- 2 Sect 11
- 3 Sect 7 - Cypress
- 4 Sect 7 - Cypress & Myrsine
- 5 Sect. 4 - Shore
- 6 Sect. 4 - middle
- 7 Sect. 1 - Shore
- 8
- 9 Ludwigia peruviana
- 10 Secret
- 11
- 12 stored N
- 13 E
- 14 S
- 15 W
- 16
- 17

late Ludwigia
alternata, peruviana
Super hairy
4-5 petal
large yellow
showy.
Giant

Other
Ludwigia
Very hairy
alternata
NW - flower
to East

Notes.



G3NW077. WBID 61A
Sand Hammock Pond- Low
30.97652 x -85.63658
2018 SMP - Holmes Co.

Station: Sand Hammock Lake, Center
 GPS Dec. 30.97652 x -85.63658
 Storet: G3NW0077 WBID 61A
 Sample ID : 80120
 Macro ID: 11471

Sampled : 08/12/2019
 Sampled By. F. Butera, M. King
 Location. Esto, Holmes Co. FL
 Receiving Waters: Texas Br.
 LIMS ID: 2110889

Taxa	1	4	7	10	Coll.	Verified
<i>Bacopa caroliniana</i>	1	1		1		
<i>Cephalanthus occidentalis</i>	1	1		1		
<i>Eleocharis vivipara</i> (submersed)	1	1	1	1		
<i>Eupatorium capillifolium</i>	1		1	1		
<i>Fuirena scirpoidea</i>	1		1	1		
<i>Habenaria repens</i>	1		1	1		
<i>Itea virginica</i>	1	1	1	1		
<i>Juncus effusus</i>	1	1		1		
<i>Leptochloa fascicularis</i>	1	1	1	1		
<i>Ludwigia</i> (Unknown Nativity)*	1	1	1	1	Y	Spec. lost
<i>Ludwigia grandiflora</i>				1		
<i>Ludwigia leptocarpa</i>	1	1	1	1		
<i>Ludwigia peruviana</i>	1					
<i>Lycopus</i> sp.	1	1	1			
<i>Mayaca fluviatilis</i>	1					
<i>Myriophyllum heterophyllum</i>	C	C	C	C	Y	FB Lab
<i>Nuphar</i> sp.	1	1	1	1		
<i>Nymphaea odorata</i>	C	C	C	C		
<i>Nymphoides cordata</i>			1	1		
<i>Nyssa sylvatica</i> var. <i>biflora</i>	1	1	1	1		
<i>Pinus</i> sp.				1		
<i>Potamogeton illinoensis</i>				1	Y	FB Lab
<i>Rhynchospora scirpoides</i>			1		Y	FB
<i>Saccharum giganteum</i>		1				
<i>Scirpus cyperinus</i>	1	1		1	Y	FB
<i>Taxodium</i> sp.	1	1	1	1		
<i>Triadenum virginicum</i>	1	1	1	1		
<i>Utricularia floridana</i>	1	1	1	1		
<i>Vitis</i> sp.	1					
Taxa per section	22	17	18	22	Herb. Taxa	24
Exotic Present	1	0	0	1	Woody Taxa	5
Avg. taxa per section	20	Exotics per Section: 0.5			Ferns	0
sections with exotics	2				Macro Algae	0
Exotic Taxa	2				Total Taxa	29

Seen but not counted (Not approp. For LVI or Not in surveyed segment)

Green Algae	1	1	1	1
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Lake margin vegetation has increased markedly since 2018 survey, limiting access to lake edge.
Leptochloa fascicularis. Field ID *Zizania aquatica*.