

Site Name Holly Lake, Center

Date: 10/13/2021

Storet G4NW0517

Field ID G4NW0517

Project: SMP/ TMDL Studies

Visit ID 83359

RQ: 2021-08-09-28

Macro ID 11984

LIMS ID: 2283514

HA ID 17050

WBID: 266B

☒ LVI

☒ Sample Site Created in SBIO

☒ Phys/Chem entered in SBIO

☒ HA entered in SBIO Initial FB, 10/13/21

☒ Date and Initial QA: SS, 10/28/21 HA Score 86

☒ LVI entered in SBIO Initial FB, 10/13/21

☒ Date and Initial QA: MK, 01/20/22

☒ Plants getting verified

☒ Date submitted: In House

☐ Plants verified

☐ Date returned: _____

☒ Macro ID authorized in SBIO

☒ Date and Initial: 01/20/22 MK

☒ Macro ID score: 69

☒ If SMP, scanned into database

Notes:

Private property. Access via Twin Lakes Resort Campground.

Kirsten O'Neill. Oneillkirstan@gmail.com

DEP FORM FD 9000-31: LAKE OBSERVATION FIELD SHEET

SAMPLE ID: 83359 MACROPHYTE ID: _____ LATITUDE: N 30.78356 30.77730
 COUNTY: Walton (Defuniak Springs) STORET #: G4NW0517 LONGITUDE: W 86.18958 86.17570
 DATE: 10/13/2021 TIME: 11:55 CTZ SAMPLING AGENCY: FL DEP - NWROC
 SITE NAME: Holly Lake WBID: 266B
 FIELD ID/NAME: G4NW0517 LAKE SIZE: 230 RQ: 2021-08-09-28

WATERSHED / LAKESIDE FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category – from GIS) : <u>rv Park</u> Forest/Natural ☐ Silviculture ☒ Field/Pasture ☒ Agricultural ☒ Residential ☒ Commercial ☐ Industrial ☒ Other (Specify) <u>Sand mine</u>						LANDSCAPE DEVELOPMENT INTENSITY (100 m buffer) LDI: 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>13</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>13</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>15</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: 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 _____					
						Water Surface Oils: ☒ None ☐ Sheen/Slick ☐ Glob ☐ 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>27</u> <u>5.69</u> <u>7.96</u> <u>100.3</u> <u>18.2</u> <u>0.01</u> Mid-Depth: <u>2.0</u> <u>26.7</u> <u>5.67</u> <u>7.9</u> <u>98.9</u> <u>18.1</u> <u>0.01</u> Bottom: <u>2.4</u> <u>26.7</u> <u>5.58</u> <u>7.78</u> <u>97.2</u> <u>18.1</u> <u>0.01</u>						Clarity: ☐ Clear ☐ Opaque ☐ Turbid ☒ Slightly Turbid Color: ☐ Clear ☐ Tannic ☒ Green					
Meter ID: <u>155477</u>						SECCHI (M) <u>2.6</u> Total Station Depth (M) <u>2.9</u> VOB ☐					
Sediment Type: (may check more than one) ☐ Sandy ☐ Organic fibrous (peaty, CPOM) ☒ Vegetated ☒ Sand/Silt ☐ Organic smooth (muck) ☐ Other (Specify): _____						Sediment Odors: ☒ Normal ☐ Anaerobic ☐ Other (Specify): _____					
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 ☒ ☐ ☐ ☐					
Additional Notes: Recently stocked with shad, sunfish. Fish feeders added to enhance fishing.											
Weather Conditions: <u>Sunny, 80's, no rain last 6 days.</u>											
SAMPLING TEAM: <u>Frank Butler, Mike King</u>						SIGNATURE: <u>[Signature]</u>			DATE: <u>10/13/2021</u>		

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

STORET STATION NUMBER: G4NW0517	DATE (M/D/Y) 10/13/2021	LAKE NAME Holly Lake		FIELD ID / NAME G4NW0517																
WBID: 266B	COUNTY: Walton	SAMPLING LOCATION/DESCRIPTION: Twin Lakes Camp Resort.		LAKE SIZE: 229 acres/ 93 Hectares																
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)	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	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	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	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 Alternations	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	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	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:
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ANALYSIS DATE: 10/13/2021	ANALYST: F. Butera	SIGNATURE: [Signature]
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SBIO Sample ID: 83359 HA ID: 17050 QC: _____

DEP FORM FD 9000-27 LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Holly Lake					County: Walton (Defuniak Springs)					Date: 10/13/2024				
Analyst: F. Buter					Signature: [Signature]					STORET: G4NW0517				
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): 1, 4, 7, 10 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.														
SBIO ID <u>83359</u>					Collect ed? (✓)	Macro ID _____								Collect ed? (✓)
SPECIES	2	5	8	11		SPECIES	2	5	8	11				
Acer rubrum	1	1	1	1		Habenaria repens								
Alternanthera philoxeroides						Hydrilla verticillata								
Andropogon sp.		1	1	1		Hydrocotyle sp.	1	1	1	1				
Azolla filiculoides (A. caroliniana)						Hygrophila polysperma								
Baccharis sp.						*Hypericum fasciculatum								
Bacopa caroliniana	C	D	1	1		*Hypericum hypericoides	1	1	1	1				
Bacopa monnieri						*Hypericum myrtifolium <i>brachy</i>	1	1	1	1				
Bidens laevis						Ilex cassine								
Bidens mitis	1	1	1	1		Ipomoea aquatica								
Blechnum serrulatum						Ipomoea sagittata								
Boehmeria cylindrica			1			Itea virginica								
Brasenia schreberi			1	1		Juncus effusus								
Cabomba caroliniana						*Juncus marginatus								
Casuarina equisetifolia						*Juncus megacephalus <i>achyrophorus</i>							1	✓
Centella asiatica						Juncus repens								
Cephalanthus occidentalis						*Juncus scirpoides								
Ceratophyllum demersum						Lachnanthes caroliniana								
Chara sp.						Leersia hexandra								
Cladium jamaicense						Landoltia punctata (Spir. punctata)								
Cliftonia monophylla						Lemna sp.								
Colocasia esculenta				1		Leucothoe racemosa (E. racemosa)								
*Commelina						Limnobia spongia								
Crinum americanum						Limnophila sessiliflora								
*Cyperus alternifolius (C. involucratus)						Liquidambar styraciflua								
Cyperus articulatus						*Ludwigia arcuata								
Cyperus haspan						*Ludwigia leptocarpa	1	1	1	1				
*Cyperus lecontei						*Ludwigia linearis								
*Cyperus polystachyos						*Ludwigia octovalvis								
*Cyperus odoratus						*Ludwigia peruviana								
*Cyperus surinamensis						*Ludwigia repens								
Cyrtilla racemiflora	1	1	1	1		*Ludwigia								
Decodon verticillatus						Luziola fluitans (H. carolinensis)								
Diodia virginiana						Lyonia lucida								
*Echinochloa crus-galli						Magnolia virginiana								
*Echinochloa muricatum						Mayaca fluviatilis		1	1	1				
Echinochloa walteri						Melaleuca quinquenervia								
Eclipta prostrata (E. alba)						Micranthemum glomeratum								
Egeria densa						Micranthemum umbrosum								
Eichhornia crassipes						Mikania scandens								
*Eleocharis baldwinii	1	1	1	1		Mimosa pigra								
*Eleocharis to		1	1	1		Myrica cerifera	1	1	1	1				
Eleocharis cellulosa						<i>H. p. brachy</i>								
Eleocharis equisetoides						<i>Brickellia linearis</i>		1	1	1				
Eleocharis interstincta						<i>Rhynchospora</i>								
*Eriocaulon compressum						<i>lobes like Juncus</i>							1	✓
*Eriocaulon decangulare						<i>Ericaceae</i>								
Eupatorium capillifolium	1	1	1	1		<i>Geopon</i>	1	1	1	1				✓
*Fuirena						<i>Dichanthus</i>								
Fuirena scirpoidea		1	1											
Gordonia lasianthus														
LIMS ID:						<i>Agalinus puerus</i>	1	1						✓

FORM FD 9000-27: LAKE VEGETATION INDEX FIELD SHEET

Waterbody: Holly Lake		Storet: G4NW0517		Date: 10/13/2021		SBIO ID 83359		Macro ID			
SPECIES	2	5	8	11	Collect ed? (✓)	SPECIES	2	5	8	11	Collect ed? (✓)
Myriophyllum aquaticum						Salix caroliniana					
*Myriophyllum heterophyllum (L)	1					Salvinia minima					
*Myriophyllum laxum						Sambucus canadensis					
*Myriophyllum pinnatum						Sapium sebiferum	1	1			
Myriophyllum spicatum				1	✓	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	1	1			
Nymphaea odorata	1	1	1	1		*Sesbania					
Nymphoides aquatica	1	1	1	1		Solidago sp.	1	1	1	1	
Nyssa sylvatica var. biflora	1	1	1	1		Sparganium americanum					
Orontium aquaticum						Spartina bakeri					
Osmunda cinnamomea						Spirodela polyrhiza					
Osmunda regalis						Taxodium sp.	1			1	
Panicum hemitomon	1	1	1	1		Thalia geniculata					
Panicum repens	1	1	1	1		Thelypteris palustris					
Paspalidium geminatum						Triadenum virginicum	1	1	1		
*Paspalum repens						Typha sp.	1	1	1		
Paspalum urvillei	1					Urochloa mutica (Brachiaria mutica)					
Peltandra sp.						*Utricularia gibba (U. biflora)					
Persea sp.						*Utricularia floridana	1	1	1	1	
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		1			
*Polygonum punctatum						Wedelia trilobata (Sphag. trilobata)					
*Polygonum						Wolffiella spp.					
Pontederia cordata						Woodwardia virginica - creata		1	1	1	
*Potamogeton diversifolius						Xyris sp.	1	1	1	1	
*Potamogeton illinoensis						Zizania aquatica					
*Potamogeton pusillus						Zizaniopsis milacea					
*Potamogeton pectinatus (Stuck. pectinatus)						Rubus				1	
Proserpinaca pectinata						Purple Picker (Agalinis)				1	
*Rhexia						Zizania aquatica				1	
*Rhynchospora corniculata						Oxycaryon cubensis		1	1		
*Rhynchospora inundata			1		✓	Atlantic White Cedar		1			1
Rhynchospora tracyi						White Flower Gum		1			
Ricciocarpus natans						Pond Picker					1
Sabal palmetto						Paspalum grass					
Sacciolepis striata	1			1		*Schoenoplectus tabernaemontani = Scirpus validus					
*Sagittaria filiformis											
*Sagittaria graminea											
*Sagittaria isoetiformis											
Sagittaria lancifolia											
Sagittaria latifolia											
Succisa		1	1	1							
Coarctata											

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

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

Date: <u>10/13/2021</u>		Name of Lake: <u>Holly Lake</u>		Gear used: <u>PONAR</u> <u>EKMAN</u> <u>OTHER</u>	
Comments:					
Drop #	Depth (m)	Sediment Type (circle all that apply)	Drop #	Depth (m)	Sediment Type (circle all that apply)
1		<u>Construction</u> sand, silt/clay, CPOM, muck, SAV	7		sand, silt/clay, CPOM, muck, SAV
2	<u>3.2</u>	<u>Construction</u> sand, silt/clay, CPOM, muck, SAV	8	<u>3.2</u>	<u>Construction</u> sand, silt/clay, CPOM, muck, SAV
3	<u>2.9</u>	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	<u>7.2</u>	<u>Construction</u> sand, silt/clay, CPOM, muck, SAV	11	<u>3.2</u>	<u>Construction</u> sand, silt/clay, CPOM, muck, SAV
6		sand, silt/clay, CPOM, muck, SAV	12		sand, silt/clay, CPOM, muck, SAV

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

Storet G4NW0517

Field ID G4NW0517

Project. SMP Development / TMDL Studies

SBIO ID: 83359

WBID 266B

Picks

- Friday
- Sat. 8
- Sat. 8

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

Revision Date: February 1, 2004

Photo Log

Win ID / Storet: G4NW0517

Station Name: Holly Lake

Date: 10-13-2021

Samplers: F. Buter, M. King

- 1 Frotus
- 2 Sech. 8 - A
- 3 Sech. 8 - B
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____
- 10 _____
- 11 _____
- 12 _____
- 13 _____
- 14 _____
- 15 _____
- 16 _____
- 17 _____

Fish Feeder

~~2~~ 11

Notes.

Station: Holly Lake
 GPS Dec. 30.77730 x -86.17570
 Storet: G4NW0517 WBID 266A
 Sample ID: 83359 Macro ID: 11984
 RQ-2021-08-09-28

Sampled: 10/13/2021
 Sampled By: F. Butera, M. King
 Location: Defuniak Springs, Walton
 Receiving Waters: Narrow's Creek. Basin: Yellow River
 LIMS ID: 2283514

	Taxa	2	5	8	11	Coll.	Verified
1	<i>Acer rubrum</i>	1	1	1	1		
2	<i>Agalinis fasciculata</i>	1	1			Y	Pressed
3	<i>Andropogon</i> sp.		1	1	1		
4	<i>Bacopa caroliniana</i>	C	C	1	1		
5	<i>Bidens mitis</i>	1	1	1	1		
6	<i>Brasenia schreberi</i>			1	1		
7	<i>Chamaecyparis thyoides</i>	1			1		
8	<i>Colocasia esculenta</i>				1		
9	<i>Cyperus blepharoleptos</i> *	1	1				
10	<i>Cyrilla racemiflora</i>	1	1	1	1		
11	<i>Dichanthelium scabriusculum</i>		1	1			
12	<i>Eleocharis baldwinii</i>	1	1	1	1		
13	<i>Eleocharis</i> sp.		1				
14	Ericaceae (Undetermined)	1			1	Y	FB Lab
15	<i>Eriocaulon lineare</i>		1		1		
16	<i>Eupatorium capillifolium</i>	1	1		1		
17	<i>Fuirena scirpoidea</i>		1	1			
18	<i>Hedychium coronarium</i>	1					
19	<i>Hydrocotyle</i> sp.	1	1	1	1		
20	<i>Hypericum brachyphyllum</i>	1	1		1		
21	<i>Hypericum hypercoides</i>	1	1	1	1		
22	<i>Juncus polycephalus</i>				1	Y	FB Lab
23	<i>Ludwigia leptocarpa</i>	1	1	1	1		
24	<i>Lycopus</i> sp.	1	1	1	1	Y	Pressed
25	<i>Mayaca fluviatilis</i>		1	1	1		
26	<i>Myrica cerifera</i>	1	1	1	1		
27	<i>Myriophyllum heterophyllum</i>	1					
28	<i>Myriophyllum spicatum</i>				1	Y	Pressed
29	<i>Nymphaea odorata</i>	1	1	1	1		
30	<i>Nymphoides aquatica</i>	1	1	1	1		
31	<i>Nyssa sylvatica</i> var. <i>biflora</i>	1	1		1		
32	<i>Panicum hemitomon</i>	1	1	1	1		
33	<i>Panicum repens</i>	1	1	1	1		
34	<i>Paspalum urvillei</i>	1					
35	<i>Rhynchospora inundata</i>			1		Y	FB Lab
36	<i>Rhynchospora</i> sp.				1	Y	Pressed
37	<i>Rubus</i> sp.		1				
38	<i>Saccharum coarctatum</i>		1	1	1		
39	<i>Sacciolepis striata</i>	1			1		
40	<i>Sapium sebiferum</i>	1	1				
41	<i>Scirpus cyperinus</i>			1			
42	<i>Solidago</i> sp.	1	1	1	1		
43	<i>Taxodium</i> sp.	1			1		
44	<i>Triadenum virginicum</i>	1	1	1			
45	<i>Typha</i> sp.	1	1	1			
46	<i>Utricularia floridana</i>	C	C	D	D		
47	<i>Websteria confervoides</i>		1				
48	<i>Woodwardia areolata</i>		1				

Station: Holly Lake
 GPS Dec. 30.77730 x -86.17570
 Storet: G4NW0517 WBID 266A
 Sample ID: 83359 Macro ID: 11984
 RQ-2021-08-09-28

Sampled: 10/13/2021
 Sampled By: F. Butera, M. King
 Location: Defuniak Springs, Walton
 Receiving Waters: Narrow's Creek. Basin: Yellow River
 LIMS ID: 2283514

	Taxa	2	5	8	11	Coll.	Verified
49	<i>Xyris</i> sp.	1	1	1	1		
	Taxa per section	30	34	27	32	Herb. Taxa	38
	Exotic Present	5	3	1	3	Woody Taxa	8
	Avg. taxa per section	31				Ferns	1
	sections with exotics	4				Macro Algae	0
	Exotic Taxa	7	Exotics per Section: 3.0			Total Taxa	47

Metric	Rep. 1	Rep. 2	Rep. 3	Rep. 4	LVI Average
LVI 2012	65	65	71	76	69
Native Percentage	86.67	88.24	96.15	90.32	90.35
FLEPPC Pct (Exotic)	6.67	5.88	3.85	6.45	5.71
Total Taxa	30	34	26	31	47
C of C over 7.0	13.33	11.76	7.69	19.35	13.03
Dominant Taxa	B. caroliniana/ U. floridana	B. caroliniana/ U. floridana	Utrichularia floridana	Utrichularia floridana	B. caroliniana/ U. floridana
C of C Dominant	5.42	5.42	6.34	6.34	5.88

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

Taxon	1	4	7	10
Filamentous green algae	1	1	1	1
<i>Cortaderia selloana</i> Pampas Grass				1
Taxodium sp.			Sect. 6	
Vitis sp.	1	1	1	1