



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

STRATEGIC MONITORING PLAN Field Sheet

July 2022

Meter
Passed End
of Day CCV
☒ Yes / ☐ No

WIN Station Name:	Itchepackesassa Creek @ Walker Rd				Sample Date:	12/14/2022	
WIN / Field ID:	G2SW0147	ORG ID:	21FLTPA	ENR:			
County:	Polk	WBID:	1495B	STREAM	3F	Latitude:	28.06815
Receiving Body of Water:	Blackwater Creek				Longitude:	-82.03144	
					RQ-	2022-12-12-40	

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Ben Paswater		x		x	x
Kevin Grace	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			
x	Wading	Canoe/Kayak	
	From Shore	Electric Motor	
		Gasoline Motor	
Depth Measured With		Secchi	

Water Level:	Normal
Flow:	Flowing
Matrix:	Fresh
Tide Stage:	
High Tide:	
Low Tide:	
Photos:	Yes
Meter ID:	Chewy
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	1040	0.6	0.3	7.54	82.4	19.6	7.21	0.6	249	0.012
								VOB (s)		

Biological Samples Collected:	HA LVS RPS	
SBIO Visit ID: 85910	HA ID: 18069	RPS ID: 10016
Macrophyte ID: N/A	LIMS Sample ID Entered 2375721	
Into The Macrophyte Module:		

Parameter Suite	Parameter Methods (LIMS Test Codes)	Preservation				
		Type	Lot#	Expiration Date	pH Check	
Microbiology	E. coli	ICE				
	Contract Lab					
	Benchmark					
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	ICE	Syringe Lot#:1145497; Filter Lot#:17232873			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP	ICE	H2SO4*	SA2229040	11/04/23	H2SO4 pH<2
Metals						
Organics (LC)						
Macroinvertebrates						
Organics (GC)						
Molecular						
Periphyton						
Phytoplankton						
BOD						
DOC						
Other(s)						
Field Comments:						
Comments on COC: Microbiology sample(s) submitted to contract laboratory.						
Relinquish Date:	12/14/2022	Signature:				

LIMS EVENT ID: SW-DIST-2022-12-15-03

WIN Import ID: 37909

Enter Field Parameters, Verify Station ID In LIMS DMT: DM 12/20/2022

QC Station ID, Field Parameters In LIMS DMT: MM 1/5/2023

Save Field Sheets on Network: MM 2/6/2023 (Initials/Date)

Migrate Data to WIN: MM 2/6/2023 (Initials/Date)

(Initials/Date)

(Initials/Date)



DEP Form FD 9000-5 Stream/River Habitat Assessment Sheet

Site Name:

Icheppakesassa Creek @ Walker Rd

RQ-2022-12-12-40

STORET STATION
NUMBER: see stickerDATE (MM/DD/YY):
see bottom of pageSAMPLING AGENCY:
FDEP SWROC

FIELD ID/NAME: see sticker ^

LOCATION:
see sticker ^

COUNTY:

Hillsborough

RECEIVING BODY OF WATER:

Hillsborough River

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity <u>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <u>6</u>	5 4 3 2 1
Substrate Availability <u>3</u>	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 <u>3</u> 2 1
Water Velocity <u>15</u>	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec ≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 <u>15</u> 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering <u>7</u> ----- Primary Score <u>31</u>	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 <u>7</u> 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization <u>4</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 <u>4</u> 3 2 1
Bank Stability Right Bank <u>6</u> Left Bank <u>6</u>	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the root zone with few raw, eroded areas. 10 9	Only meets 2 of the 3 requirements for optimal bank stability. LR 8 7 <u>6</u>	Only meets 1 of the 3 requirements for optimal bank stability. 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Riparian Buffer Zone Width Right Bank <u>3</u> Left Bank <u>3</u>	Width of vegetation greater than 18 m 10 9	Width of vegetation >12 to 18m 8 7 6	Width of vegetation 6 to 12 m. human activities close to system 5 4	Less than 6 m of buffer zone due to intensive human activities LR <u>3</u> 2 1
Riparian Zone Vegetation Quality Right Bank <u>4</u> Left Bank <u>4</u> ----- Secondary Score <u>30</u>	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance. 10 9	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. 8 7 6	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious. LR 5 <u>4</u>	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). 3 2 1

TOTAL SCORE

61

Date: 12/14/2022

Analyst: Ben Paswater, Kevin Grace

Signature:

Ben Paswater

RQ-2022-12-12-40 (1040)



Site Name:

Icheppakesassa Creek @ Walker Rd

Rapid Periphyton Survey Field Sheet

Date:

12/14/2022

Investigators:

BP, KG

STORET Station Number:

See Label

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover
0	1	N		96	60	1	N		91
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
10	1			96	70	1			96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
20	1			94	80	1			96
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
30	1			96	90	1			81
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
40	1			94	100	1			95
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								
50	1			90		1			
	2								
	3								
	4								
	5								
	6								
	7								
	8								
	9								

Secchi depth 0.6
Estimated? N

points ranked 4-6 0
total points assessed 99
% points ranked 4-6 0

Check accompanying data collected at same site/date.

Algal mat sample ☐
Linear Veg Survey ☒
Habitat Assessment ☒
SCI/Biorecon ☐
Water sample ☒

RQ- 2022-12-12-40

@ 1040 am

Algal Thickness Rank

N	rough, no algae, slimy, algae up to 1mm
3	>1mm - 6mm
4	>6mm - 20mm
5	>20mm - 10 cm
6	>10 cm

Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached.

Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank.

Record canopy cover as the number of small densiometer quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6.

Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.

Site Name:

Icheppakesassa Creek @ Walker Rd

21FLTPA

LATITUDE

LONGITUDE

SAMPLING AGENCY FDEP SW ROC

RECEIVING BODY OF WATER

Hillsborough River

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural 10 Silviculture Field/Pasture 60 Agricultural Residential 30 Commercial Industry Other (Specify)								Landscape Development Intensity Index (LDI)
Local Watershed Erosion (select one): ☐ None ☒ Slight ☐ Moderate ☐ Heavy Local Watershed NPS Pollution: ☐ No evidence ☒ Slight ☐ Moderate ☐ Heavy								Typical Width (m) Depth (m)/Velocity (m/sec) Transect 4 m wide
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: 3 Right Bank: 3				Hydrologic Modification Score (per FT 3101) 5				0.25 m/s 0.25 m/s 0.25 m/s
High Water Mark: 0.7 + 0.6 = 1.3 (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No				0.3 m deep 0.6 m deep 0.3 m deep
Artificially ☐ No ☒ Mostly recovered, more sinuous Channelized: ☒ Some recovery ☐ Recent, severe				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%) ☒ Heavily Shaded ☐ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils ☒ Absent ☐ Slight ☐ Moderate ☐ Profuse			Sediment Odors ☒ Normal ☐ Sewage ☐ Petroleum ☐ Chemical ☐ Anaerobic ☐ Other (Specify):			Smothering of Substrates Sand Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Silt Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐ Algae Smothering: None ☐ Slight ☒ Moderate ☐ Severe ☐																																						
SUBSTRATE TYPE Assessment Tool: ☐ SCI ☒ RPS ☒ LVS ☐ LCI ☐ BioRecon			WATER QUALITY <table border="1"> <thead> <tr> <th></th> <th>Depth (M)</th> <th>Temp. (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (UMHO/CM)</th> <th>Salinity (PPT)</th> <th>SECCHI (M)</th> </tr> </thead> <tbody> <tr> <td>Top:</td> <td> 0.3 </td> <td> 19.6 </td> <td> 7.21 </td> <td> 7.54 </td> <td> 84.4 </td> <td> 249 </td> <td> 0.012 </td> <td> 0.6 </td> </tr> <tr> <td>Mid:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>☒ VOB</td> </tr> <tr> <td>Bottom:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>							Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)	Top:	0.3	19.6	7.21	7.54	84.4	249	0.012	0.6	Mid:								☒ VOB	Bottom:								
	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)																																				
Top:	0.3	19.6	7.21	7.54	84.4	249	0.012	0.6																																				
Mid:								☒ VOB																																				
Bottom:																																												
Woody Debris (Snags) Undercut Banks / Roots Leaf Packs or Mat Aquatic Vegetation Rock or Shell Rubble.. Sand..... Mud / Muck / Silt Other Other			Meter ID: Chevy			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐																																						
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: see Water Datasheet			Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐																																						
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify)																																						
			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify)			Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐																																						
ABUNDANCE Not Obs. Rare Common Abundant Periphyton: ☐ ☒ ☐ ☐ Fish: ☐ ☐ ☒ ☐ Aquatic Plants: ☐ ☐ ☒ ☐ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify)																																									
			AMBIENT FIELD CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.																																									
SAMPLING TEAM Ben Pasvater, Kevin Grace			SIGNATURE: Ben Pasvater			DATE: 12/14/2022																																						



Site Name:

Icheppakesassa Creek @ Walker Rd

County:

Hillsborough

Waterbody: See Sticker

Date:

12/14/2022

Signature:

Analyst:

Ben P. S. L. Water

if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in abundance rank for each section. Only the most common taxa are listed, so use blank

spaces for additional taxa names. BOLD is exotic invasive

HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)	HERBACEOUS SPECIES	Meter Mark										Specimen collected (check)
	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100			0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	
Alternanthera philoxeroides	✓												Micranthemum glomeratum										
Bacopa caroliniana (Lemon)													Micranthemum umbrosum										
Bacopa monnieri													Myriophyllum aquaticum										
Bidens mitis													Najas guadelupensis										
Boehmeria cylindrica													Nitella sp.										
Centella asiatica													Nuphar luteum										
Ceratophyllum demersum													Orontium aquaticum										
Chara sp.													Panicum hemitomon										
Cicuta maculata													Panicum repens										
Cladium jamaicense													Panicum rigidulum										
Colocasia esculenta													Pistia stratioides										
Commelina diffusa													Polygonum glabra										
Commelina virginica													Polygonum hydropiperoides										
Crinum americanum													Polygonum punctatum										
Cyperus													Pontedaria cordata										
Diodia virginiana													Potamogeton illinoensis										
Eichhornia crassipes													Ruellia simplex (Mex Petunia)										
Eleocharis (wispy viviparous)													Sacciolepis striata										
Fontinalis sp. (Aquatic Moss)													Sagittaria kurziana										
Fraxinus caroliniana													Sagittaria lancifolia										
Hydrilla verticillata													Sagittaria latifolia										
Hydrocotyle sp.													Salvinia minima										
Hygrophila polysperma													Samolus parviflora										
Hymenachne amplexicaulis													Saururus cernuus										
Hymenocallis													Sparganium americanum										
Lachnanthes caroliniana													Schoenoplectus americanus										
Landoltia punctata													Sphagneticola trilobata (Wedelia)										
Lemna sp.													Typha sp.										
Limnophila sessiflora													Urochloa mutica (Brachiaria)										
Ludwigia leptocarpa													Vallisneria americana										
Ludwigia palustris													Zizania aquatica										
Ludwigia peruviana																							
Ludwigia repens		✓																					
Luziola fluitans																							
If no Dominant or Co-Dominant were selected, indicate with "X"																							
Indicate % cover macrophytes per section																							
0-5% Macrophyte Coverage		✓																					
>5 and ≤10% Macrophyte Coverage																							
>10 and ≤25% Macrophyte Coverage																							
>25 and ≤50% Macrophyte Coverage																							
> 50% Macrophyte Coverage																							

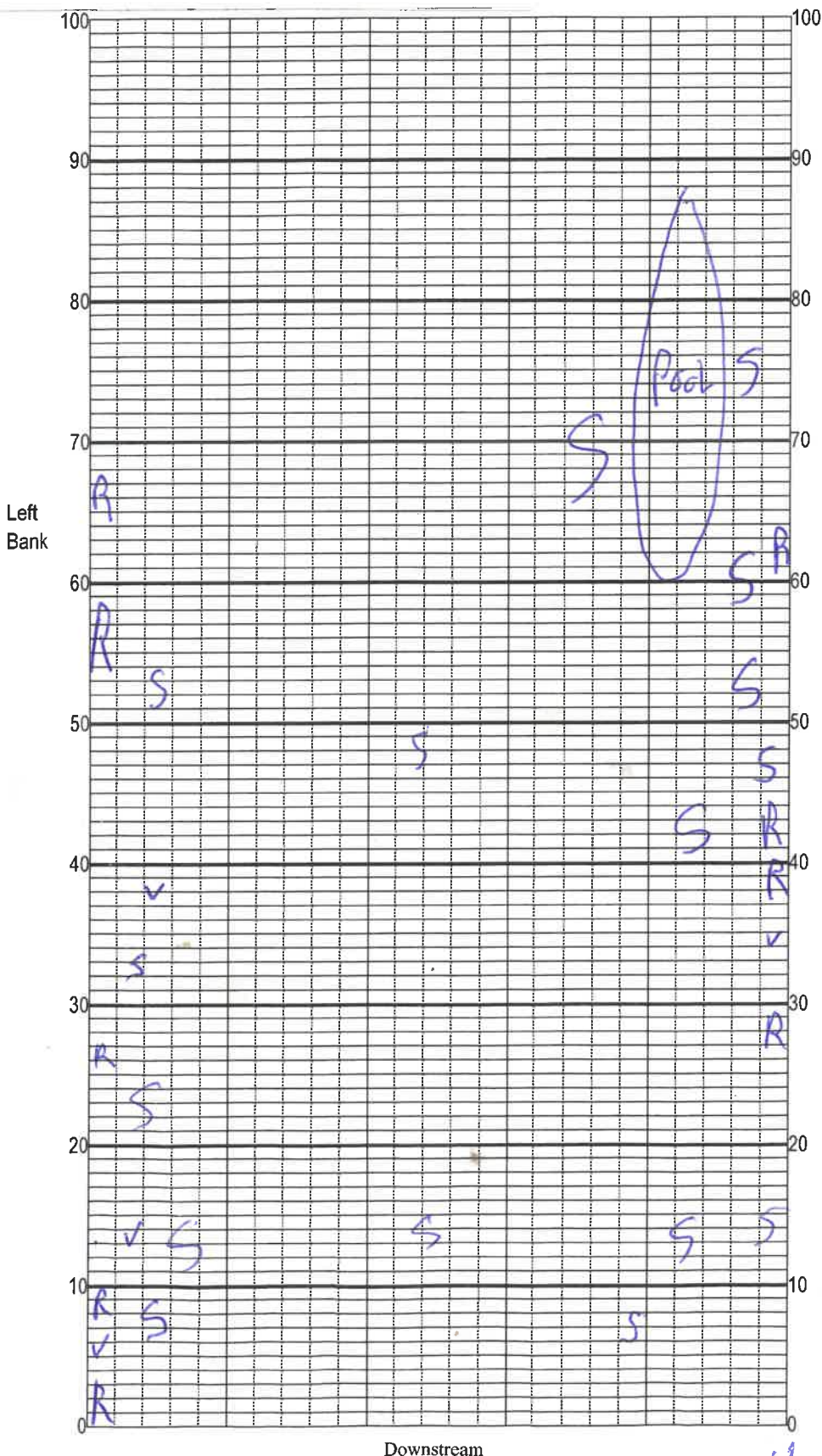
← 2 sq/m of veg.



Site Name:

DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet

Icheppakesassa Creek @ Walker Rd



Length of grid represents 100 m of stream (not linear meters).
(Horizontal scale is double vertical scale, draw proportionately).

Location:

Date:

Sampler:

100 m: Latitude 28.06829
Longitude -82.03165
0 m: Latitude 28.06856
Longitude -82.03264

Substrates: Code key, draw proportionate habitat abundance. %

☒ S	Snags	2.5
☒ R	Roots/undercut banks	1.5
☐	Leaf Packs (or mats)	
☒ V	Aquatic Macrophytes	Few
☐	ROCKS	
☐		
☒ I	Pools	total # observed = 1 # range expected = 2-4

Average width 4 mAverage depth 0.6 mVelocity measured at 0.50, 1.00 meter mark.WQ & chemistry taken at 100 meter mark.

Habitat Smothering:
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.

Bank Stability:
Note areas (on map) with unstable, eroding banks.

Riparian Buffer Width:
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

$S = 64/2500 = 0.0256$
 $R = 38/2500 = 0.015$
 $V = \text{few}$

E84167

1711 Twelfth Street East
Palmetto, FL 34221

(941) 723-9986 / (941) 723-6061 fax

Temperature Gun ID #258

Client Information: FDEP

Address: 13051 N. Telecom Parkway

Tampa FL 33604

Phone # 815-470-5878

Report to: benjamin.paswater@dep.state.fl.us

Invoice to: FDEP Micro Overflow

PO# RA-2072-12-12-46
Project Name: RA-2072-12-12-46 / RA-2072-11-14-46

~~72012124~~

04-61-11-2202-071

Laboratory Submission #

22/20589

Sample Name		Sample Type / Sample Matrix ²	Collection		Container		Preservative ¹	Parameters for Analysis	Laboratory Sample #	
			Date	Time	Qty	Capacity				Type ³
GZSW0147		FSW	12/14/22	1040	1		SW	10x	Ecoli	1
GZSW0145		FSW	12/14/22	1150	1		SW		Ecoli	2
GZSW0135		FSW	12/14/22	1410	1		SW	↓	Ecoli	3
										4
			</							

Instructions:

1. Sample type: is used to indicate whether the sample was a grab (G) or whether it was a composite (C).
 2. Sample matrix: is used to indicate whether the sample is being designed to drinking water (DW), groundwater (GW), surface water (SW), fresh surface water (FSW), saline surface water (SSW), soil, sediment (SD/MINT), or sludge (SLD/G).
 3. Container type: is used to indicate whether the container is plastic (P) or glass (G).
 4. Sample media: can be refrigerated or stored in two for after collection. The temperature during storage should be less than or equal to 6°C (42.8°F).
 5. Order: Pre-preserved C has any preservatives that were added to the sample container. Lot Number of preservative used is specific to the bottles included in the kit. Na₂TiO₃, H₂SO₄, and HNO₃ do not have expiration dates per the manufacturer. Microbiology bottles are preserved at manufacturing stage. Viral, viils are pre-preserved at manufacturing stage.
- Each bottle has a label identifying sample ID, premeasured preservative contained in the bottle, sample type, client ID, and parameters for analysis.
- The following information should be added to each bottle label after collection with permanent black ink: date and time of collection, sampler's name or initials, and any field number or ID.
- All bottles not containing preservative may be stored with appropriate sample prior to collection.
- The client is responsible for documentation of the sampling event. Please note special sampling events on the sample custody form.
- Sample kit has been created by BEA using new certified bottles unless otherwise noted.

Laboratory Sample Acceptability:

pH < 2: ϕ BEA Temperature: 3,8°C
BEAS Temperature:

	Date	Time	Received By & Affiliation: (Print & Sign)	Date	Time
1 Collected / Relinquished By & Affiliation: (Print & Sign)	12/14/22	1530	Kenneth Jones	12/14/22	1530
2 Relinquished By & Affiliation: (Print & Sign)					