



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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STRATEGIC MONITORING PROGRAM FIELD SHEET

Data Qualified?

Yes / No

RQ-2016-07-18-10

7/20/2016

G3SD07202016-4

Date:

(mm/dd/yyyy)

STORET Station Name:

STORET Station ID:

Phillippi Creek
Tributary

SARABY0071FTM

Latitude:

(Decimal Degrees)

County: Sarasota RQ

Longitude:

(Decimal Degrees)

Receiving Body of Water:

Phillippi Creek

Field ID:

Sampling Team Members				WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check	Sampling Equipment			
Corey Anderson Ben Paswater				☒	☒	☒	☒	☒	☒ Sample Container	☐ Van Dorn	☐ Pole	
									☐ Carboy	☒ Syringe	☐ Other	
									Equipment ID			
									Collection Method			
									☐ Wading	Via Boat		
									☒ From Shore	☐ Canoe/Kayak		
									☐ Other (note below)	☐ Electric Motor		
										☐ Gasoline Motor		
Water Level: Dry / Low / <u>Normal</u> / High / Flooded				Matrix: <u>Fresh</u> / Marine / DI								
Meter ID# <u>5</u>				Photos: <u>Yes</u> / <u>No</u> / <u>NA</u>					Tide Falling: Yes / No / <u>NA</u>			
Time Zone	Time	Sample Depth (m)	Total Depth (m)	DO (mg/L)	DO (%SAT)	pH	Salinity (ppt)	Secchi Disk (m)	Sp COND (µmhos/cm)	Temp. (C°)		
<u>EST</u>	<u>1000</u>	<u>0-3</u>	<u>0.4</u>	<u>5.5</u>	<u>69</u>	<u>7.5</u>	<u>-</u>	<u>0.4</u>	<u>682</u>	<u>27.0</u>		
CEN												
Biological Samples Collected: None <u>HA</u> SCI <u>LVS</u> <u>RPS</u> 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		<u>6168040</u>	<u>6/16/17</u>	☒ <2		
Metals		☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO2				☐ <2		
Filtered Nutrients		☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter				☐ Ice						
Chlorophyll		☒ CHLSUITE-W				☒ Ice						
BOD		☐ BOD-UNIN				☐ Ice						
Physical/Aggregate (Fresh)		☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CI-IC / W-COLOR / W-SO4-IC / W-TDS				☒ Ice						
Physical/Aggregate (Marine)		☐ Alkalinity / W-F / W-TSS / TURBIDITY				☐ Ice						
Macroinvertebrates		☐ MI-FW-QLDC				☐ Formalin						
Microbiology		☐ E Coli ☐ F Coli ☐ Enterococcus ☐ QPCR				☐ Ice						
Periphyton		☐ ALGAE-ID				☐ Ice						
Pesticides		☐ W-PSNP-TQ ☐ W-AHERB-AA ☐ W-PYR-AA-R				☐ Ice						
		☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Other						
Notes: <u>Let-A</u>												
Place Label Here (If Available)												
Signature: <u>[Signature]</u>										Date: <u>7-20-16</u>		

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)

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet

RQ-2016-07-18-10

7/20/2016

G3SD07202016-4

SAMPLE ID see sticker upper rightORG ID 21FLFTM

LATITUDE

STORET # see sticker upper rightCOUNTY Sarasota

LONGITUDE

Phillippi Creek
Tributary

SARABY0071FTM

DATE see sticker upper rightTIME 1000

SAMPLING

SITE NAME Phillippe Creek TributaryFIELD ID/NAME see sticker upper right RECEIVING BODY OF WATER Phillippi Creek

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):							Landscape Development Intensity Index (LDI)
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify)
				<u>100</u>			
Local Watershed Erosion (select one): ☐ None ☐ Slight ☒ Moderate ☐ Heavy							Typical Width (m) Depth (m)/Velocity (m/sec) Transect
Local Watershed NPS Pollution: ☐ No evidence ☐ Slight ☒ Moderate ☐ Heavy							
Width of Riparian Vegetation (m) on Each Buffer Side				Hydrologic Modification Score (per FT 3101)			
Left Bank: <u>3</u>		Right Bank: <u>3</u>					
High Water Mark: <u>0.6</u> + <u>0.4</u> = <u>1.0</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☒ No			
Artificially ☐ No ☐ Mostly recovered, more sinuous				Canopy Cover % ☐ Open ☐ Lightly Shaded (11-45%)			
Channelized: ☐ Some recovery ☒ Recent, severe				☒ 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							
			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Woody Debris (Snags)			<u>0.3</u>	<u>27.0</u>	<u>7.5</u>	<u>5.5</u>	<u>69</u>	<u>682</u>		<u>0.4</u>
Undercut Banks / Roots										☒ VOB
Leaf Packs or Mat										
Aquatic Vegetation			<u>2.2</u>							
Rock or Shell Rubble			<u>0.9</u>							
Sand										
Mud / Muck / Silt										
Other										
Other										
			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐		Water Surface Oils Normal ☒ Sheen ☐ Globs ☐ Slick ☐ Other ☐					
			Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: Exp:		Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐					
			Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No Lot Number: Exp:		Clarity Clear ☐ Slightly Turbid ☒ Turbid ☐ Opaque ☐					
ABUNDANCE Not Obs. Rare Common Abundant			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other(Specify) ☐							
Periphyton: ☒ ☐ ☐ ☐			AMBIENT FIELD CONDITIONS / NOTES:							
Fish: ☐ ☒ ☐ ☐										
Aquatic Plants: ☐ ☐ ☒ ☐										
Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐			☒ The antecedent hydrologic conditions have been met to my best knowledge.							

SAMPLING TEAM

Grey Anderson, Baswater

SIGNATURE:

[Signature]

DATE:

7-20-16

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Phillippi Creek
Tributary

County: <i>Cassata</i>		Investigators: <i>Paswater, Anderson</i>		7-20-16		<i>Phillippe Creek Trib</i>			
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				60	1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			
10	1				70	1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			
20	1				80	1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			
30	1				90	1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			
40	1				100	1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			
50	1					1			
	2					2			
	3					3			
	4					4			
	5	N				5	N		
	6					6			
	7					7			
	8					8			
	9					9			

STORET Station Number:

Secchi depth

Estimated?

points ranked 4-6

total points assessed

% points ranked 4-6

Check accompanying data collected at same site/date.

Algal mat sample

Linear Veg Survey

Habitat Assessment

SCI/Biorecon

Water sample

RQ- 2016-07-18-10

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%.

SAMPLING AGENCY: FDEP South ROC		STORET STATION NUMBER:		Phillippi Creek Tributary
RECEIVING BODY OF WATER: <u>Phillippe Creek</u>	COUNTY: <u>Sarasota</u>	LOCATION: <u>Phillippe Creek Trib</u>	FIELD ID/NAME:	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components Substrate Diversity <u>6</u>	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock) 20 19 18 17 16	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags) 15 14 13 12 11	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed 10 9 8 7 <u>6</u>	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered 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>14</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 15 <u>14</u> 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>3</u> ----- Primary Score <u>26</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 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 <u>3</u> 2 1
Secondary Habitat Components Artificial Channelization <u>3</u>	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks. 20 19 18 17 16	Good sinuosity within old channelized area. Evidence of dredging in the past (>25 yrs) but mostly recovered. 15 14 13 12 11	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area. 10 9 8 7 6	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks. 5 4 <u>3</u> 2 1
Bank Stability Right Bank <u>4</u> Left Bank <u>4</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. 8 7 6	Only meets 1 of the 3 requirements for optimal bank stability. 5 <u>4</u>	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 <u>3</u> 2 1
Riparian Zone Vegetation Quality Right Bank <u>3</u> Left Bank <u>3</u> ----- Secondary Score <u>23</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. 5 4	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). <u>3</u> 2 1

49

TOTAL SCORE

Date: <u>7-20-16</u>	Analyst: <u>Corey Anderson</u>	Signature: <u>CWA</u>
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7/20/2016

G3SD07202016-4

Phillippi Creek
Tributary

SARABY0071FTM

Date: 7-20-16

Sampler: Corey Anderson

100 m: Latitude 27.28711
Longitude -82.444610 m: Latitude 27.28775
Longitude -82.44503

Substrates: Code key, draw proportionate habitat abundance. %

☐ S	Snags	_____
☐ R	Roots/undercut banks	_____
☐	Leaf Packs (or mats)	_____
☐ V	Aquatic Macrophytes	2.2%
☐ K	Rocks	0.9%
☐	_____	_____
☐	_____	_____
☐	Pools	total # observed = _____ # range expected = _____

Average width 2.5 m

Average depth 0.2 m

Velocity measured at 0.2 m/sec
meter mark.

WQ & chemistry taken at 100 meter mark.

Habitat Smothering: entire channel
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.Bank Stability: one slope, bend to Bank
Note areas (on map) with unstable, eroding banks.Riparian Buffer Width: 0-3 m
Note areas (on map) where natural vegetation is altered or eliminated.

Plants observed / other notes:

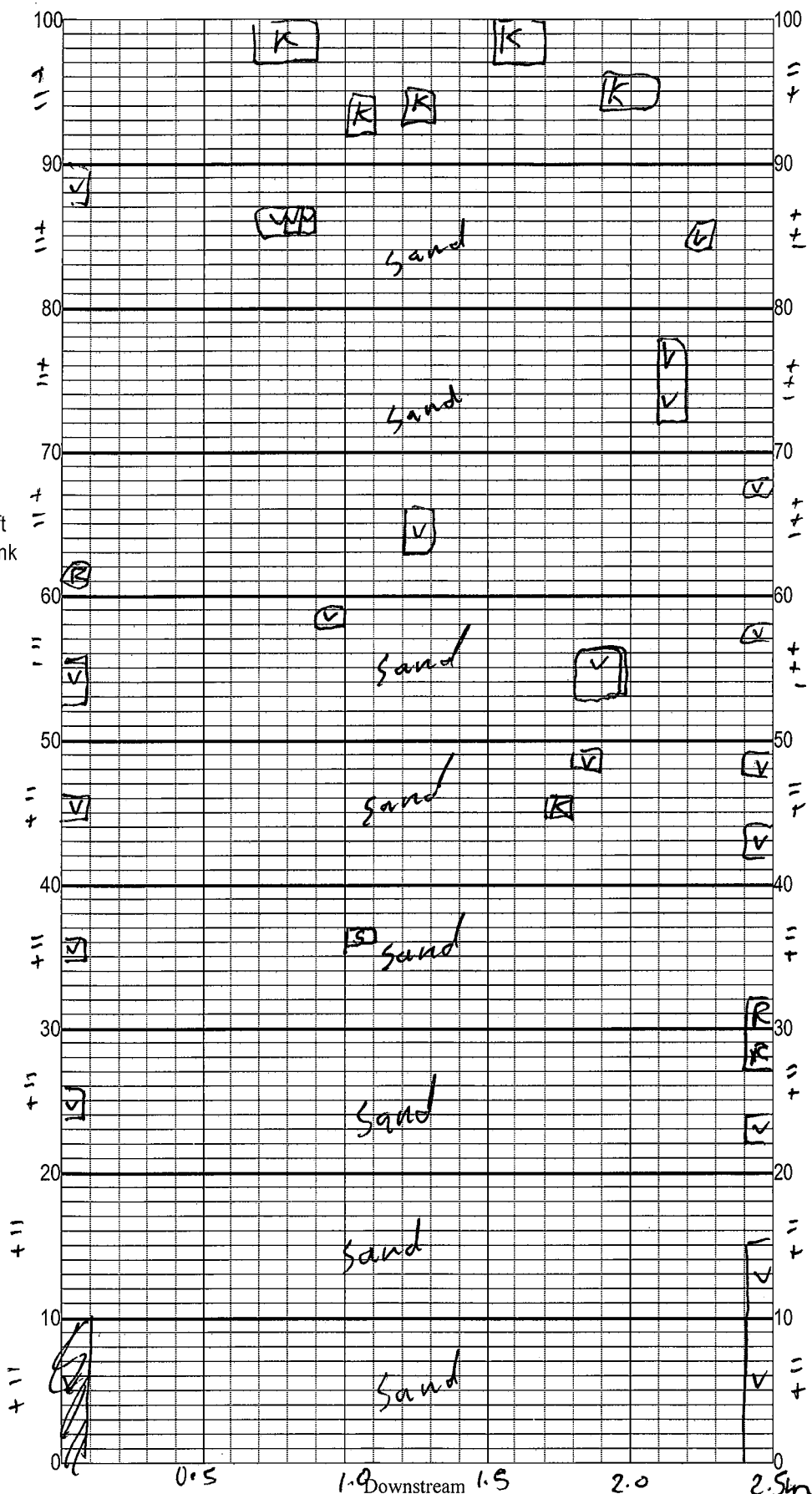
Najas, *cladophora*, *Alternanthera*,
Commelina diffusa, *Hydrilla*,
Hydrocotyle, *Hydrocotyle* L

Roots = 6/2500

Snags = 1/2500

✓ Veg = 54/2500

✓ Rock = 22/2500

Left
Bank

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

2m² = 20 squares

Field ID ▲

SARABY0071FTM

Signature: 

[Signature]

> 50% Macrophyte Coverage