



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
STRATEGIC MONITORING PROGRAM FIELD SHEET

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RQ-2016-05-30-04
5/31/2016

G3SD05312016-1

Date Qualified?
Yes / No

STORET Station Name: _____

Date: _____
(mm/dd/yyyy)

STORET Station ID: _____
Phillippi Creek @
Pinecraft Park

STORET
G3SD0059

Latitude: _____
(Decimal Degrees)

WBID: _____ RQ

Longitude: _____
(Decimal Degrees)

Receiving Body of Water: Roberts Bay

Field ID: _____

County: Sarasota

Sampling Team Members		WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Danny Berger						
Chris Link						

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 / <u>Normal</u> / High / Flooded						Matrix: <u>Fresh</u> / Marine / DI					
Meter ID# <u>A</u>			Photos: Yes / <u>No</u>			Tide Falling: Yes / <u>No</u> / 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°)	
<u>EST</u>	<u>1040</u>	<u>0.3</u>	<u>1.0</u>	<u>4.5</u>	<u>57</u>	<u>7.4</u>	<u>-</u>	<u>1.0s</u>	<u>694</u>	<u>27.5</u>	
CEN											

Biological Samples Collected: None <u>HA</u> SCI LVS RPS LVI Other _____										
Parameter Suite	Parameter Methods				Preservation	Acid Lot#	Expiration	pH Check		
Preserved Nutrients	☒ TKN / TP / Nox / NH3 / TOC — Other _____				☒ Ice ☒ H ₂ SO ₄	<u>529020</u>	<u>9-16-16</u>	☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP				☐ Ice ☐ HNO ₃			☐ <2		
Filtered Nutrients	☒ oP ☒ Field Filtered 0.45 µm Filter				☒ Ice					
Chlorophyll	☒ CHLSUITE-W				☒ Ice					
BOD	BOD-INHB ☐ BOD-UNIN				☐ Ice					
Physical/Aggregate	☒ TSS / Turbidity / Alkalinity / Color ☐ Other _____				☒ 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 ☐ W-PC-AA-SF ☐ W-UHERB-AA ☐ W-GLYPH				☐ Ice ☐ Other					

Notes:		Place Label Here (If Available)	
Signature: <u>DJ Berger</u>		Date: <u>5-31-16</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)

5/31/2016

G3SD05312016-1

SAMPLE ID see sticker upper rightORG ID 21FLFTMLATITU Phillippi Creek @STORET # see sticker upper rightCOUNTY SuffolkLONGIT Pinecraft ParkDATE see sticker upper rightTIME 1040SAMPLING AGENCY DEP

SITE NAME

FIELD ID/NAME see sticker upper right RECEIVING BODY OF WATER Roberts Bay

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):

Forest/Natural 5 Silviculture 0 Field/Pasture 0 Agricultural 0 Residential 80 Commercial 15 Industry 0 Other (Specify) 0Landscape Development
Intensity Index (LDI)Local Watershed Erosion (select one): ☐ None ☒ Slight ☒ Moderate ☐ HeavyLocal Watershed NPS Pollution: ☐ No evidence ☐ Slight ☐ Moderate ☒ Heavy

Width of Riparian Vegetation (m) on Each Buffer Side

Left Bank: 5 Right Bank: 3Hydrologic Modification Score
(per FT 3101) 1High Water Mark: 2.4 + 0.7 = 3.1
(m) (above present water level) (present depth) (above bed)

Artificially Impounded

☒ Yes ☐ NoArtificially ☐ No☐ Mostly recovered, more sinuousChannelized: ☒ 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 ☐ BioReconINVERT PERI
% Coverage # Times # Times
Sampled SampledWoody Debris (Snags) 0 0 0Undercut Banks / Roots 0 0 0Leaf Packs or Mat 0 0 0Aquatic Vegetation 31 0 0Rock or Shell Rubble.. 0 0 0Sand..... 0 0 0Mud / Muck / Silt 0 0 0Other 0 0 0Other 0 0 0WATER
QUALITYDepth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. Sat (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M)
Top: 0.3 27.5 7.4 4.5 57 694 — 1.0
Mid: 0 0 0 0 0 0 0 0
Bottom: 0 0 0 0 0 0 0 0Meter ID: AWater Odors Normal ☒ Petroleum ☐
Sewage ☐ Chemical ☐ Other ☐Water Sample Taken? ☒ Yes ☐ NoSample Preserved? ☒ Yes ☐ NoLot Number: 5259020 Exp: 9-16-16Algae Sample Taken? ☐ Yes ☒ NoSample Preserved? ☐ Yes ☒ No

Lot Number: _____ Exp: _____

Water Surface Oils Normal ☒ Sheen ☐
Globs ☐ Slick ☐ Other ☐Color Tannic ☒ Green (Algae) ☐
Clear ☐ 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

Danny Berger Chris Link

SIGNATURE:

Danny Berger

DATE:

5-31-16

5/31/2016

G3SD05312016-1

STORET
Field ID
G3SD0059Phillippi Creek @
Pinecraft Park

Date: 5-31-16

Sampler: Danny Berger

100 m: Latitude 27.32110
Longitude -82.50516
0 m: Latitude 27.32045
Longitude -82.50451

Substrates: Code key, draw proportionate habitat abundance. %

S	Snags	0
R	Roots/undercut banks	0
L	Leaf Packs (or mats)	0
✓	Aquatic Macrophytes	31
R	Rocks	0
P	Pools	total # observed = 120 # range expected = 1-2

Average width 8 m

Average depth 0.7 m

Velocity measured at 0 meter mark.

WQ & chemistry taken at 0 meter mark.

Habitat Smothering: Algae Smothering throughout
Note areas (on map) where sand or silt is smothering substrates, limiting habitability.Bank Stability: Left Bank 85-100m
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:

Algae Smothering throughout

$$S = 0/2000 = 0\%, 0m^2$$

$$R = 0/2000 = 0\%, 0m^2$$

$$L = 0/2000 = 0\%, 0m^2$$

$$V = 784.625/2000 =$$

$$R = 0/2000 = 0\%, 0m^2$$

31%

$$Velocity = \frac{1m}{50sec} = 0.02m/s$$

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

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

RQ-2016-05-30-04

5/31/2016

G3SD05312016-1

Field ID

STORET
G3SD0059

SAMPLING AGENCY: FDEP South ROC		STORET STATION NUMBER: →	Phillippi Creek @ Pinecraft Park
RECEIVING BODY OF WATER: Roberts Bay	COUNTY: Sarasota	LOCATION: ↗	FIELD ID/NAME: P

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>3</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <u>3</u> 2 1
Substrate Availability <u>16</u>	Greater than 30% major productive habitat present at site 20 19 18 17 <u>16</u>	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 3 2 1
Water Velocity <u>2</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 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 <u>2</u> 1
Habitat Smothering <u>3</u> ----- Primary Score <u>24</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	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>6</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 <u>6</u>	5 4 3 2 1
Bank Stability	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.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability. R L 5 4	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas. 3 2 1
Right Bank <u>5</u> Left Bank <u>4</u>	10 9	8 7 6		
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation > 12 to 18 m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities L R 3 2 1
Right Bank <u>3</u> Left Bank <u>3</u>	10 9	8 7 6	5 4	
Riparian Zone Vegetation Quality	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.	> 50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed. L R	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank <u>6</u> Left Bank <u>6</u> ----- Secondary Score <u>33</u>	10 9	8 7 <u>6</u>	5 4	3 2 1

57 TOTAL SCORE

Date: 5-31-16	Analyst: Danny Berger	Signature: [Signature]
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