



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION STRATEGIC MONITORING PROGRAM FIELD SHEET

January 2018

Data Qualified?

Yes / No

WIN Station Name: Drain to Hudson Bayou @ Shade Ave

Date: 04/18/2018

(mm/dd/yyyy)

WIN/ Field ID: G3SD0134

WBID: 1953A

Latitude: 27.326389

(Decimal Degrees)

County: Sarasota

ORG ID:

Longitude: -82.521825

(Decimal Degrees)

Receiving Body of Water: Sarasota Bay

RQ-2018- 06-18-508

Sampling Team Members						WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Chase Conley						X				
Maryann Dugan								X	X	
Steven Cofone						X				X

Sampling Equipment			
☒ Sample Container	☐ Van Dorn	☐ Pole	
☐ Carboy	☒ Syringe		
☐ Dipper	☐ Other		
Depth Measured with: SECCHI			
Equipment ID			

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

Water Level: Dry/ Pooled/ Low / (Normal) / High / Flooded				Meter ID# 7		Matrix: (Fresh) / Marine / DI				
Photos: Yes / No		Flow: No Flow / Intestinal / Flowing / NA		Tide: Rising/ Falling/ Slack/ (NA)		Tide Times: High NA Low NA				
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	1115	0.1	0.05	0.1	7.38	95.2	7.1	0.28	581	27.8
CEN				S		93.5				

Biological Samples Collected:		None	HA	SCI	RPS	Algae ID	LVS	LVI	Other:
SBIO ID Numbers:		SBIO-ID:	HA-ID:	RPS-ID:	Macrophyte-ID:	LIMS#:			
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	SA8085170	03/24/19	☒ <2		
Metals	☐ W-ICPMS ☐ W-ICP			☐ Ice ☐ HNO3			☐ <2		
Filtered Nutrients	☒ W-PO4-F ☒ Field Filtered 0.45 µm Filter			☒ Ice					
Chlorophyll	☒ CHLSUITE-W			☒ Ice					
Physical/Aggregate (Fresh)	☒ Alkalinity / W-F / W-TSS / TURBIDITY / W-CH-C / 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 Coli ☐ F Coli ☐ Enterococci			☐ Ice					
Molecular	☐ PCR-FILTER ☐ PCR-HF183 ☐ PCR-BacR ☐ PCR-GULLZ ☐ 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			☐ Ice					
	☐ W-PCL-SQ-R ☐ W-PYR-AA-R ☐ W-GLYPH ☐ W-SUC-AA-R			☐ Ice ☐ Other					

Notes: Solo visit 787.52 AFD 08/20/2018

Field ID/WIN ID

Location

DrainToHudson @ShadeAve

G3SD0134

Signature: Maryann Dugan SAC 07/13/18

Date: 06/18/2018

Enter Field Parameters, Verify Station ID in LIMS DMT:

QC Station ID, Field Parameters in LIMS DMT:

Scan/Save Field Sheets

08/20/2018

Migrate Data to WIN:

08/16/18

Verify Data in WIN:

08/16/18

(Initials/Date)

(Initials/Date)

(Initials/Date)

PUT STICKER UP ^ HERE		STORET STATION NUMBER: G3SD0134	DATE (MM/DD/YYYY): 06/18/2018	SAMPLING AGENCY: FDEP South ROC
FIELD ID/NAME: Drain to Hudson Bayou	COUNTY: Sarasota	LOCATION: 27.3263432, -82.521727		RECEIVING BODY OF WATER: Sarasota Bay

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>11</u> 19.4%	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 <u>11</u>	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>15</u> .25	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>2</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 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 <u>2</u> 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>3</u>	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 <u>3</u> 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.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the root zone with raw, eroded areas.
Right Bank <u>4</u> Left Bank <u>4</u>	10 9	8 7 6	5 <u>4</u>	3 2 1
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
Right Bank <u>1</u> Left Bank <u>2</u>	10 9	8 7 6	5 4	3 <u>2</u> <u>1</u>
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.	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>3</u> Left Bank <u>2</u> ----- Secondary Score <u>19</u>	10 9	8 7 6	5 4	<u>3</u> <u>2</u> 1

50 TOTAL SCORE

Date: <u>06/18/2018</u>	Analyst: <u>Maryann Dugan, CHASE WILEY, STEVEN LOBONE</u>	Signature: <u>Maryann Dugan</u>
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Stream/River Habitat Sketch Sheet



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

Revision Date: June 2, 2011

Site: _____ County: _____ Date: _____ Investigators: _____

Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N - 6)	Canopy Cover		
0	1	N		40	1	N		80	1	N			
	2				2					2			
	3				3					3			
	4				4					4			
	5		94		5				65	5			96
	6				6					6			
	7				7					7			
	8				8					8			
	9				9					9			
10	1			50	1			90	1				
	2				2				2				
	3				3				3				
	4				4				4				
	5		96		5				77	5			96
	6				6					6			
	7				7					7			
	8				8					8			
	9				9					9			
20	1			60	1			100	1				
	2				2				2				
	3				3				3				
	4				4				4				
	5		96		5				86	5			96
	6				6					6			
	7				7					7			
	8				8					8			
	9				9					9			
30	1			70	1			Record "N" for points deeper than the Secchi depth; algae are presumed absent. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. Note if thickness estimated for deep points which can be seen but not reached.	1				
	2				2				2				
	3				3				3				
	4				4				4				
	5		92		5				92	5			92
	6				6					6			
	7				7					7			
	8				8					8			
	9				9					9			

# points ranked 4-6	0
total points assessed	0
% points ranked 4-6	0
Secchi depth:	0, 1 S
Check accompanying data collected at same site/date.	
Algal mat sample	X
Habitat Assessment	X
Linear Veg. Survey	X
SCI/Biorecon (circle 1)	X
Water sample	X
RO: 200 - 06 - 18 - 56	

STOP: 9075 RPS ID: 01584

(This fits with paper margins and orientation.)

User Defined Space: _____

Date: 1/2/34

Location, directions, samplers, whatever... _____

Field ID: 1234567890123456

Barcode: 1234567890123456

Field ID: 1234567890123456

Barcode: 1234567890123456

DEP-SOP-001/01: Form FD 9000-3 (9/19/12)
PHYSICAL/CHEMICAL CHARACTERIZATION FIELD SHEET

RQ-2013-10-07-72

Date: 1/2/34

ABCDEFGHIH

Field ID

STORET

1234567890123456

User Defined Space.

Location, directions,
samplers, whatever...

SAMPLE ID RQ-2013-10-07-72 ORG ID _____
 COUNTY Sarasota SAMPLING AGENCY SROC
 DATE 06/18/2018 TIME 1115
 SITE NAME Drain to Hudson Bayou @ SHADE AVE
 FIELD ID/NAME G3SD0134 RECEIVING BODY OF WATER Sarasota Bay

RIPARIAN ZONE / STREAM FEATURES

PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural ☐ Silviculture ☐ Field/Pasture ☐ Agricultural ☐ Residential ☐ 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) <u>1</u> m wide Typical Depth (m) <u>0.3</u> m/s <u>0.2</u> m/s <u>0.25</u> m/s Typical Velocity (m/sec) <u>0.1</u> m deep <u>0.1</u> m deep <u>0.1</u> m deep
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <u>3</u> Right Bank: <u>3</u>				Hydrologic Modification Score (per FT 3101) <u>X</u>			
High Water Mark: <u>0.5</u> + <u>0.1</u> = <u>0.6</u> (m) (above present water level) (present depth) (above bed)				Artificially Impounded ☐ Yes ☐ No			
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 Invert PERI % # Times # Times Coverage Sampled Sampled Woody Debris (Snags) <u>0.6</u> ☐ ☐ Undercut Banks /Roots <u>1.4</u> ☐ ☐ Leaf Packs or Mat ☐ ☐ Aquatic Vegetation <u>17.4</u> ☐ ☐ Rock or Shell Rubble... ☐ ☐ Sand/Silt..... ☐ ☐ Sand/Gravel..... ☐ ☐ Mud/Muck/Silt ☐ ☐ Other ☐ ☐		WATER QUALITY Depth (M) Temp. (°C) pH (SU) D.O. (MG/L) D.O. (%) Cond. (UMHO/CM) Salinity (PPT) SECCHI (M) Top: ☐ ☐ ☐ ☐ ☐ ☐ ☐ <u>0.1</u> Mid: <u>0.05</u> <u>27.8</u> <u>7.1</u> <u>7.4</u> <u>93.5</u> <u>581</u> <u>0.28</u> ☒ VOB Bottom: ☐ ☐ ☐ ☐ ☐ ☐ ☐ <u>0.1</u> Meter ID: <u>7</u> Meter Verify: Y ☐ N ☐			
ABUNDANCE Absent Rare Common Abundant Periphyton: ☒ ☐ ☐ ☐ Fish: ☐ ☒ ☐ ☐ Aquatic Plants: ☐ ☐ ☐ ☒ Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐		Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐ Water Sample Taken? ☒ Yes ☐ No Sample Preserved? ☒ Yes ☐ No Lot Number: <u>SAR08570</u> Exp: <u>03/26/2019</u> Algae Sample Taken? ☐ Yes ☒ No Sample Preserved? ☐ Yes ☐ No NA Lot Number: <u>NA</u> Exp: <u>NA</u>			
		Water Surface Oils Normal ☒ Sheen ☐ Globbs ☐ Slick ☐ Other ☐ Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐ Clarity Clear ☒ Slightly Turbid ☐ Turbid ☐ Opaque ☐			
		System Type: Stream ☐ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☒ <u>DITCH</u>			
WEATHER CONDITIONS / NOTES: ☒ The antecedent hydrologic conditions have been met to my best knowledge.					

SAMPLING TEAM

MARYANN DUGAN, CHASE CONLEY, STEVEN WOFONE

SIGNATURE:

Maryann Dugan

DATE:

06/18/2018

Date: 06/18/2020

County: Sarasota

Waterbody: Drain to Hudson

Signature: Hayman Dean

Bayou (a)
SHADE AVE.

Comments:

Instructions: Note taxa growing in the water with a checkmark if present, "D" if dominant, and "C" if codominant (dominance only if 1 m² of taxa present). Note in the boxes below if no dominant are selected, and note total macrophyte abundance rank for each section. Only the most common taxa are listed, so use blank spaces for additional taxa names. **bold is exotic invasive**

62-160.800, F.A.C.

page 1 of 2
LVS ID : 11025