



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REFERENCE STREAMS Field Sheet

July 2022

Meter
Passed End
of Day CCV
Yes / No

WIN Station Name:	PRAIRIE CREEK AT SR 31				Sample Date:	4/10/2023		
WIN / Field ID:	G3SD0123	ORG ID:	21FLFTM	ENR:			Latitude:	27.05177
County:	DESOTO	WBID:	1962	STREAM	1	Longitude:		-81.78437
Receiving Body of Water:	Shell Creek				RQ-	2023-03-27-19		

Sampling Team Members	WQ Measurements	Sample Collection	Documentation	Preservation	Preservation Check
Monica Jaeger	x		x		
John Barrington		x		x	x

Sampling Equipment				
x	Sample Container		Carboy	
	Dipper		Van Dorn	
x	Syringe		Pole	
	Syringe Lot#	1363442	Filter Lot#	17589311
	Secchi Equipment ID:	3312B		
Collection Method				
	Wading		Canoe/Kayak	
x	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:	President Camacho
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	910	0.1	0.05	7.53	87.7	22.8	7.47	0.1	894	0.44
								VOB (s)		

Biological Samples Collected: HA LVS RPS SCI

SBIO Visit ID: HA ID: RPS ID: Macrophyte ID: LIMS Sample ID Entered Into The Macrophyte Module:

Parameter Suite	Parameter Methods (LIMS Test Codes)			Preservation				
				Type	Lot#	Expiration Date	pH Check	
Microbiology	E. coli	Contract Lab	Sanders	ICE				
Chlorophyll	CHLSUITE-W			ICE				
Physical/Aggregate Nutrients	ALKALINITY, TURBIDITY, W-F, W-TSS			ICE				
	W-CL-IC, W-COLOR, W-SO4-IC, W-TDS			ICE				
Filtered Nutrients	W-PO4-F	Field Filtered 0.45 µm Filter		ICE	Syring Lot#:1363442; Filter Lot#:17589311			
Acid Preserved Nutrients	W-NH3 / W-NO2NO3 / W-TKN / W-TOC / W-S-A-TP			ICE	H2SO4*	SA3013020	01/25/24	H2SO4 pH<2
Metals	W-ICPMS	W-ICP	W-HARD	ICE	HNO3**	NA1105100	6/7/23	HNO3 pH<2
Organics (LC)	W-E8321-DI	W-E8321-MS						
Macroinvertebrates	MI-FW-QLDC			Formalin	9.990517CS			
Organics (GC)	W-PSNP-TQ	W-TR-SQ-R		Ice	*2.0 ml of H2SO4 Used Unless Noted Otherwise **2.0 ml of HNO3 Used Unless Noted Otherwise			
Molecular	PCR-HF183	PCR-BacR	PCR-DG3	Ice				
Periphyton								
Phytoplankton								
BOD								
DOC								
Other(s)					SyringLot#		FilterLot#	
Field Comments:	/ SCI Collection Time: 1015							
Comments on COC:	Microbiology sample(s) submitted to contract laboratory.							
Relinquish Date:	04/10/2023	Signature:						

LIMS EVENT ID: WIN Import ID:

Enter Field Parameters, Verify Station ID In LIMS DMT:

(Initials/Date)

QC Station ID, Field Parameters In LIMS DMT:

(Initials/Date)

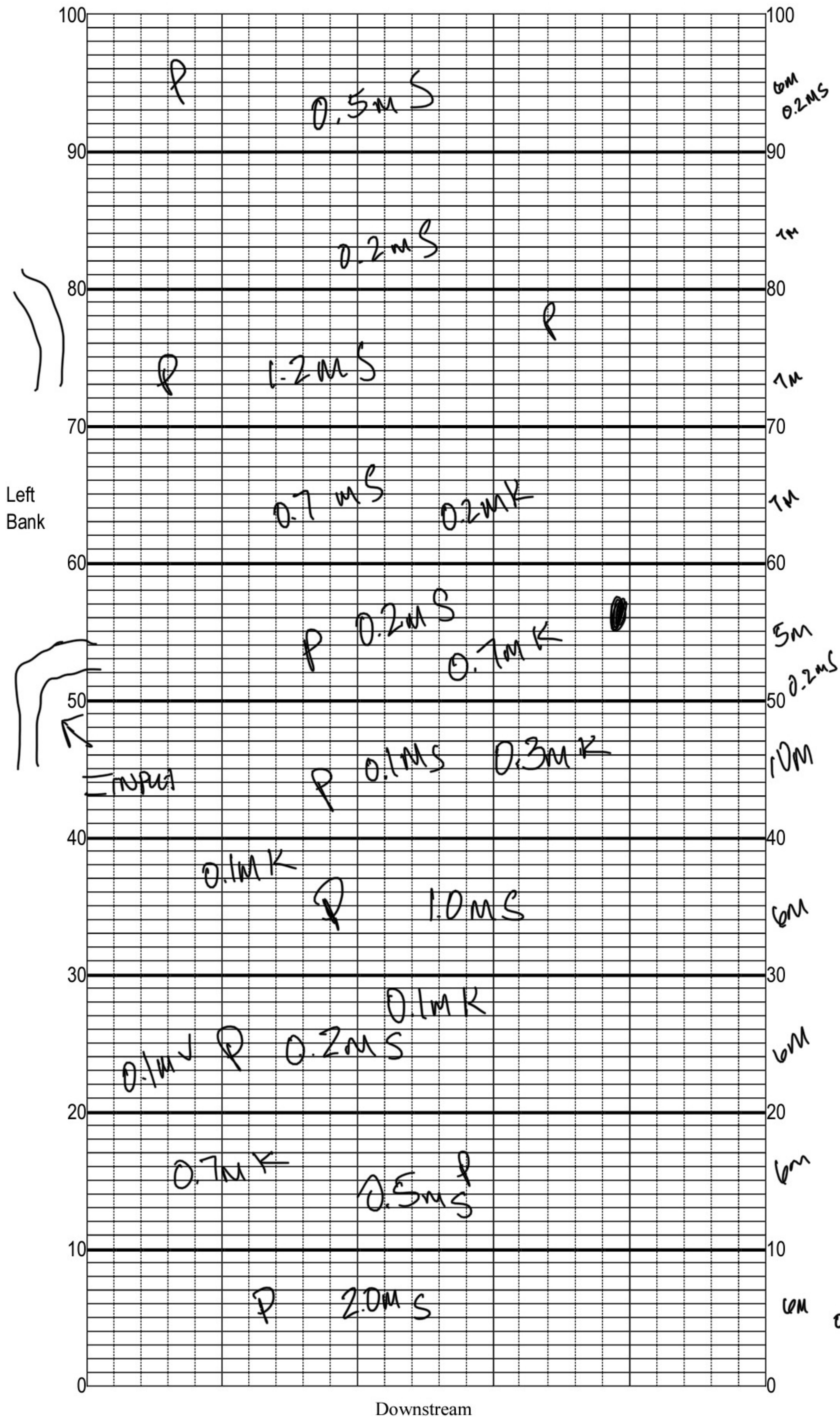
Save Field Sheets on Network:

(Initials/Date)

Migrate Data to WIN:

(Initials/Date)

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



Location: G35D0123
 Date: 04/10/2023
 Sampler: Monica Jaeger, John Barrington

100 m: Latitude 27.05198
 Longitude -81.78289
 0 m: Latitude 27.05194
 Longitude -81.78389

Substrates: Code key, draw proportionate habitat abundance.		%
☒ S	Snags	<u>0.92</u>
☐	Roots/undercut banks	<u>0</u>
☐	Leaf Packs (or mats)	<u>0</u>
☒ V	Aquatic Macrophytes	<u>0.014</u>
☒ K	ROCKS	<u>0.31</u>
☐		
☒ P	Pools	total # observed = <u>9</u> # range expected = <u>2</u>

Average width 7.0 m
 Average depth 0.1 m

Velocity measured at 50 meter mark.

WQ & chemistry taken at 0 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:

6.5m S
2.1m K
0.1m V

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

SAMPLING AGENCY: FDEP - SDROC		STORET STATION NUMBER: G3SD0123	DATE (MM/DD/YY): 4/10/23	RECEIVING BODY OF WATER: Peace River
REMARKS:	COUNTY: DeSoto	LOCATION: Prairie Creek		FIELD ID/NAME:

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 7	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability 2	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 3 2 1
Water Velocity 14	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 2 1
Habitat Smothering 13 Primary Score 34	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 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 or straightening 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 20	20 19 18 17 16 15 14 13 12 11	10 9 8 7 6	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 woody 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 woody root zone with raw, eroded areas.
Right Bank 5 Left Bank 5	10 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	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 10 Left Bank 10	10 9	8 7 6	5 4	3 2 1
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 8 Left Bank 8 Secondary Score 60	10 9	8 7 6	5 4	3 2 1

102

TOTAL SCORE

Date: 04/10/23	Analyst: Monica Jaeger	Signature: 
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DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet



SAMPLE ID G3SD0123 ORG ID _____ LATITUDE 27.05198
COUNTY Highlands STORET # _____ LONGITUDE -81.78289
DATE 4/10/23 TIME _____ SAMPLING AGENCY FDEP-SOROC
SITE NAME Prairie Creek @ SR 31

FIELD ID/NAME _____ RECEIVING BODY OF WATER PEACE RIVER

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>50%</u>	<u>10%</u>	<u>10%</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>18</u>		Right Bank: <u>18</u>		<u>3-4</u>				
High Water Mark: <u>2.0</u> + <u>0.1</u> = <u>2.1</u>				Artificially Impounded				
(m) (above present water level) (present depth) (above bed)				☐ Yes ☒ No				
Artificially ☒ No ☐ Mostly recovered, more sinuous				Canopy Cover %				
Channelized: ☐ Some recovery ☐ Recent, severe				☐ Open ☐ Lightly Shaded (11-45%)				
				☐ Heavily Shaded ☒ Moderate Shaded (46-80%)				

SEDIMENT / SUBSTRATE

Sediment Oils			Sediment Odors			Smothering of Substrates				
☒ Absent	☐ Slight	☐ Moderate	☒ Normal	☐ Sewage	☐ Petroleum	Sand Smothering: ☐ None ☐ Slight ☐ Moderate ☒ Severe	☐ None	☐ Slight	☐ Moderate	☒ Severe
☐ Moderate	☐ Profuse		☐ Chemical	☐ Anaerobic	☐ Other (Specify):	Silt Smothering: ☐ None ☐ Slight ☒ Moderate ☐ Severe	☐ None	☐ Slight	☐ Moderate	☐ Severe
						Algae Smothering: ☒ None ☐ Slight ☐ Moderate ☐ Severe				

SUBSTRATE TYPE				WATER QUALITY									
Assessment Tool:	% Coverage	INVERT # Times Sampled	PERI # Times Sampled	Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)		
☐ LCI ☐ BioRecon				Top:	<u>0.05</u>	<u>22.8</u>	<u>7.47</u>	<u>7.53</u>	<u>87.7</u>	<u>894</u>	<u>0.44</u>	<u>0.1</u>	
Woody Debris (Snags)	<u>0.92</u>	<u>7</u>		Mid:								☒ VOB	
Undercut Banks / Roots	<u>—</u>	<u>—</u>		Bottom:									
Leaf Packs or Mat	<u>—</u>	<u>—</u>		Meter ID: <u>FRIDAY</u>								<u>0.1</u>	
Aquatic Vegetation	<u>0.04</u>	<u>3</u>		Water Odors: Normal ☒ Petroleum ☐	Water Surface Oils: Normal ☒ Sheen ☐								
Rock or Shell Rubble	<u>0.31</u>	<u>7</u>		Sewage ☐ Chemical ☐ Other ☐	Globs ☐ Slick ☐ Other ☐								
Sand	<u>98.7</u>	<u>3</u>		Water Sample Taken? ☒ Yes ☐ No	Color: Tannic ☒ Green (Algae) ☐								
Mud / Muck / Silt				Sample Preserved? ☒ Yes ☐ No	Clear ☐ Other (Specify) ☐								
Other				Lot Number: _____ Exp: _____	Clarity: Clear ☒ Slightly Turbid ☐								
Other				Algae Sample Taken? ☐ Yes ☒ No	Turbid ☐ Opaque ☐								
				Sample Preserved? ☐ Yes ☐ No									
				Lot Number: _____ Exp: _____									
ABUNDANCE				System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐									
Periphyton:	☒ Not Obs.	☐ Rare	☐ Common	AMBIENT FIELD CONDITIONS / NOTES:									
Fish:	☐ Not Obs.	☐ Rare	☒ Common										
Aquatic Plants:	☐ Not Obs.	☒ Rare	☐ Common										
Iron/Sulfur Bacteria:	☒ Not Obs.	☐ Rare	☐ Common										

SAMPLING TEAM FDEP-SOROC

SIGNATURE [Signature]

DATE 4/19/23

62-160.800, F.A.C.

John Barrington
Monica Jaeger

Revision Date: January 2011



DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet

Site: <u>PRAIRIE CREEK @ 31 G3SD0123</u>					County: <u>DESOTO</u>		Date: <u>4/12/23</u>		Investigators: <u>JOHN BARRINGTON, MONICA JOEGER</u>		
STORET Station Number:											

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		45		5	N		38
	6					6			
	7					7			
	8					8			
	9					9			
10	1				70	1			
	2					2			
	3					3			
	4					4			
	5	N		5		5	N		64
	6					6			
	7					7			
	8					8			
	9					9			
20	1				80	1			
	2					2			
	3					3			
	4					4			
	5	N		3		5	N		0
	6					6			
	7					7			
	8					8			
	9					9			
30	1				90	1			
	2					2			
	3					3			
	4					4			
	5	N		1		5	N		0
	6					6			
	7					7			
	8					8			
	9					9			
40	1	1			100	1			
	2					2			
	3					3			
	4					4			
	5	N		3		5	N		0
	6					6			
	7					7			
	8					8			
	9					9			
50	1				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%.				
	2								
	3								
	4								
	5	N		44					
	6								
	7								
	8								
	9								

Secchi depth	0.1
Estimated?	Y

# 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- 2023-03-27-19	

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

[illegible]