

SAMPLE ID _____ ORG ID 21FLA LATITUDE _____
COUNTY Duval STORET# 20030316 LONGITUDE _____
DATE 4/7/21 TIME 1100 SAMPLING AGENCY FD ER NE ROL
SITE NAME Moncrief at 33rd
FIELD ID/NAME _____ RECEIVING BODY OF WATER Trout 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)
☐	☐	☐	☐	☐	☐	☐	☐
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>4</u> Right Bank: <u>0</u>				<u>1.2M</u>			
High Water Mark: <u>1m</u> <u>3</u> + <u>0.2</u> = <u>3.2</u> JP				Artificially Impounded ☐ Yes ☒ No			
(m) (above present water level) (present depth) (above bed)							
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: <u>Moderate</u> ☒ Slight ☐ Moderate ☐ Severe ☒				
SUBSTRATE TYPE			WATER QUALITY							
Assessment Tool: ☐ SCI ☐ RPS ☐ LVS ☐ LCI ☐ BioRecon			Depth (M)	Temp. (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (UMHO/CM)	Salinity (PPT)	SECCHI (M)
Woody Debris (Snags)			Top:							<u>0.12</u>
Undercut Banks / Roots			Mid:	<u>0.12</u>	<u>20.9</u>	<u>7.47</u>	<u>7.36</u>	<u>82.6</u>	<u>441.1</u>	☒ VOB
Leaf Packs or Mat			Bottom:							TOTAL DEPTH
Aquatic Vegetation			Meter ID:	<u>Stretch</u>						<u>0.12</u>
Rock or Shell Rubble			Water Odors Normal ☒ Petroleum ☐ Sewage ☐ Chemical ☐ Other ☐			Water Surface Oils Normal ☐ Sheen ☒ Globbs ☐ Slick ☐ Other ☐				
Sand			Water Sample Taken? ☐ Yes ☒ No			Color Tannic ☐ Green (Algae) ☐ Clear ☒ Other (Specify) ☐				
Mud / Muck / Silt			Sample Preserved? ☐ Yes ☐ No			Clarity Clear ☐ Slightly Turbid ☐ Turbid ☒ Opaque ☐				
Other			Lot Number: _____ Exp: _____							
Other			Algae Sample Taken? ☐ Yes ☒ No							
			Sample Preserved? ☐ Yes ☐ No							
			Lot Number: _____ Exp: _____							
ABUNDANCE			System Type: Stream ☒ Lake ☐ Wetland ☐ Estuary ☐ Other (Specify) ☐							
Not Obs. Rare Common Abundant			AMBIENT FIELD CONDITIONS / NOTES:							
Periphyton: ☒ ☐ ☐ ☒			<u>Just HA & Phys Chem</u>							
Fish: ☐ ☒ ☐ ☐			<u>- RP</u>							
Aquatic Plants: ☐ ☐ ☒ ☐			☒ The antecedent hydrologic conditions have been met to my best knowledge.							
Iron/Sulfur Bacteria: ☒ ☐ ☐ ☐										
SAMPLING TEAM			SIGNATURE:				DATE:			
<u>Kim Appleby + Jeremy Parrish</u>			<u>[Signature]</u>				<u>4/7/21</u>			

SAMPLING AGENCY:		STORET STATION NUMBER: 20030316	DATE (MM/DD/YY): 4/7/21	RECEIVING BODY OF WATER:
REMARKS:	COUNTY: Oswego	LOCATION: Monroe @ 33rd	FIELD ID/NAME:	

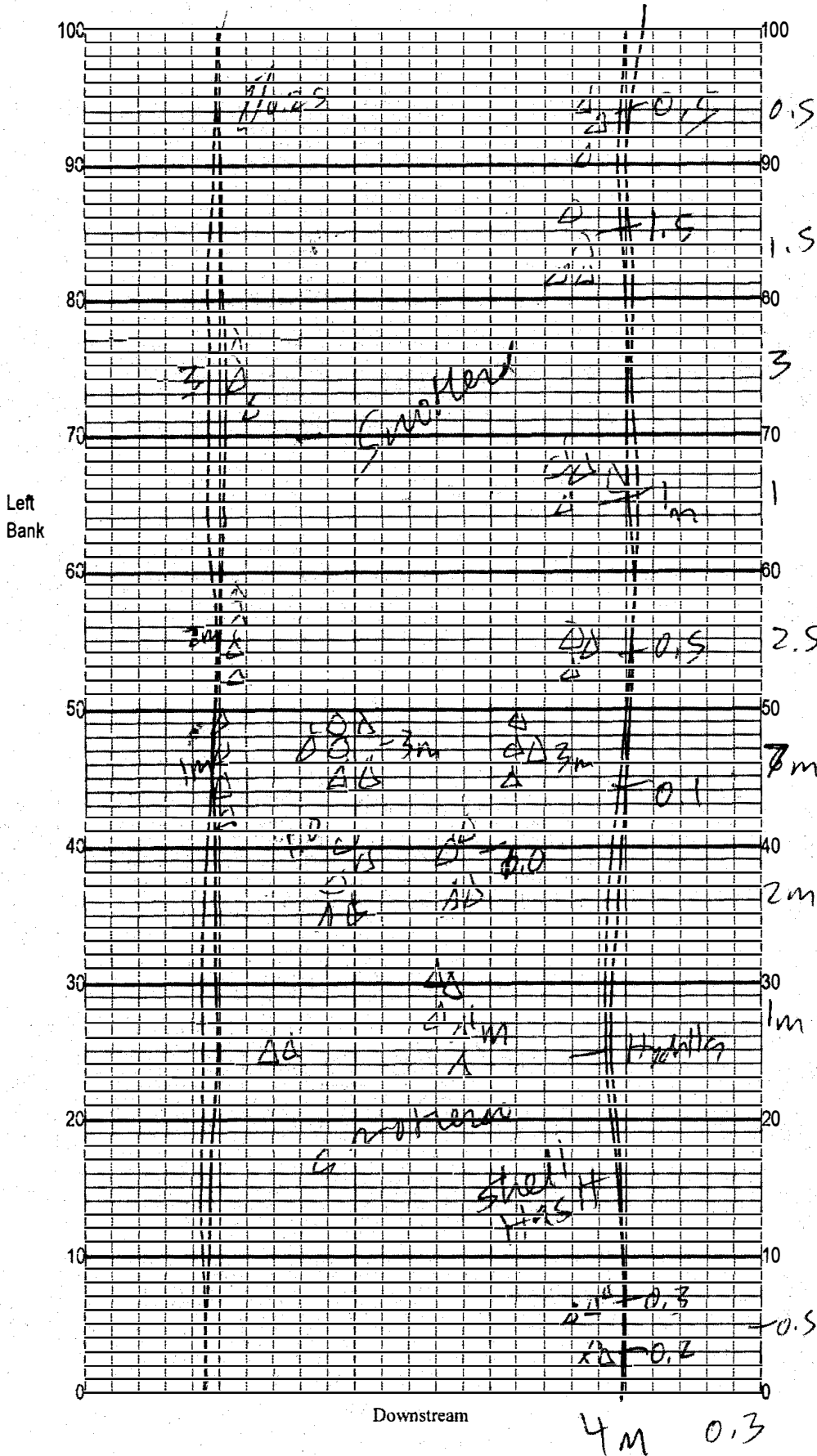
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh 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 <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>4</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 <u>4</u> 3 2 1
Water Velocity <u>12</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 <u>12</u> 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>4</u> Primary Score <u>23</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 <u>4</u> 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 <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	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 <u>2</u> Left Bank <u>3</u>	10 9	8 7 6	5 4	<u>3</u> <u>2</u> 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 <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>1</u> Left Bank <u>3</u> Secondary Score <u>16</u>	10 9	8 7 6	5 4	<u>3</u> 2 <u>1</u>

39

TOTAL SCORE

Date: <u>4/7/21</u>	Analyst: <u>Jerin Can</u>	Signature: <u>Jerin Can</u>
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DEP Form FD 9000-4 Stream/River Habitat Assessment Sketch Sheet



20030316
 Location: Monmouth @ 33rd
 Date: 7/7/21
 Sampler:

100 m: Latitude	
Longitude	
0 m: Latitude	
Longitude	
Substrates: Code key, draw proportionate habitat abundance. %	
	Snags
	Roots/undercut banks
	Leaf Packs (or mats)
	Aquatic Macrophytes
	Pools
total # observed =	
# range expected =	
Average width 4.0 m	
Average depth 0.2 m	
Velocity measured at 0 meter mark.	
WQ & chemistry taken at 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:
 ~ 20m plants
 19

7 sec = 0.13

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