Day in the Life of the Hudson River 10/05/2023 Pier 1 Lighthouse Museum, Staten Island, NY RIVER MILE: -4.5

Salt Front: ∼ *52*

Curtis High School-Edita O'Brien & Dave Scheffler 64 students, 10th-12th grade, 4 adults Latitude 40.640951°N & Longitude –74.073463°W



Scup (Porgy) caught rod & reel

Location: Pier 1 Light House Museum, Staten Island Pier, Staten Island, NY **Surrounding Land Use:** 50% Urban/Residential, 50% Industrial/Commercial

Sampling Site: Pier, Wood Bulkhead, Rip Rap, Parking Lot, Grassy

Shoreline: Rocky

Water: Calm, Depth around 200 cm River Bottom: Muddy& Weedy

Plants in the water: No Plants in the water

*NR = Not read/recorded

ITEM	Time	Reading			Comments				
Physical									
Air Temperature	10:20 AM	24°C		75.2°F					
Wind Speed: NR		Anemometer		Beaufort	Direction				
Weather today	10:00 AM	<25% Cloud Cover		No Rain					
Weather the past 3 days:	Cloudy & Rainy for past 3 days								
Tides- NR	Time	Rising, Falling, Unchanged		Height (cm)					
Current- NR	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack				
Water Temperature-	9:24 AM 9:49 AM	22°C 21°C		71.6°F 69.8°F					
	12:13 PM 12:14 PM 12:24 PM	21°C 21°C 21.5°C		69.8°F 69.8°F 70.7°F					
Turbidity- Long Sight Tube (120 cm)		55 cm		,					

		Che	mical			
Student Salinity- Hydrometer	9:29 AM 9:32 AM 9:35 AM 12:29 PM	17,000 j 18,000 j 17,000 j 17,667 j	opm opm		17 ppt 18 ppt 17 ppt 17.7 ppt	Each reading is an average of 3
DO -	Time	Тетр		ppm DO	% saturation	
Hach Drop Count Kit	9:20 AM 12:35 PM	21°C 21.5°C		7.2 ppm 7.8 ppm	85% 85%	
Meter/Probe	9:40 AM	22°C		11 ppm	125%	
pH – *test strips do not work well in a marine environment	9:25 AM 12:39 PM	Color Match Kit 7.5 7		9:25 AM 12:35 PM	*Test Strips 5 4.7	
Nitrates-	9:47 AM	0 ppm				11.7
Phosphates-Test Stripes	9:47 AM	30 ppm*				*Misread/Issue with equipment
		Biol	ogical			' '
Fish- Rod & Reel	Number	Name		Length of longest	Notes	
9:30 AM-2:00 PM	1 30 6	Striped Bass Tautog (Blackfish) Porgy (Scup)		40 cm 29 cm 22 cm		
Fish Totals	TOTAL: 37	Diversity: 3				
Macroinvertebrates	Number	Name		Length of longest		
	3 1 1	European Sea Squirt Chain Tunicates Red Sponge			1.5 cm 2.3 cm	
Macroinvertebrate Totals TOTAL: 5 Diversity: 3						
Sediment Core -NR	Time	Oxid Top	H ₂ S Smell	Oil	Grain Size	Other Features

Boats								
Commercial/	Time	Name	Color	Southbound/	Light/			
Recreational				Northbound	Loaded			
Commercial	9:22	Grim	Blue & White	-	Light			
Commercial	9:23	Staten Island	Orange	Southbound	Light			
Commercial	9:33	One	Red	Southbound	Loaded			
Recreational	9:35	Speed Boat	Grey	Northbound	Light			
Commercial	-	Grima lot	Green & White	Northbound	Loaded			
Commercial	-	One	Pink	Southbound	Loaded			
Commercial	9:21	-	Blue & Red	Southbound	Loaded			
Commercial	9:51	-	Blue	Southbound	Light			
Commercial	9:30	SI Ferry	Orange	Northbound	Light			
Recreational	9:53	-	White & Grey	Northbound	Light			