

Day in the Life of the Hudson River 10/13/22

Bowline Point Park, Haverstraw

RIVER MILE: 37

Salt Front: ~ RM 76

North Rockland HS (11th and 12th grade)- 60 students & 5 adults

Latitude 41.20299 N & Longitude -73.95778 W

Location: Bowline Point Town Park, Haverstraw, NY

Area: Recreation, fishing area

Surrounding Land Use: 10% Urban/Residential, 20% Forested, 10% Beach, 40% Industrial/Commercial, 20% Picnic/Park

Sampling Site: Beach area, pier, riprap, brick pieces

Shoreline: 20% Sandy, 80% Rocky

Plants in area: None

River Bottom: 20% Sandy, 80% Rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	10:53 AM	20° C	68°F		
<i>Wind Speed:</i>	10:55 AM	<i>Anemometer</i> 4.8 mph	<i>Beaufort</i> 3	<i>Direction</i> SW	
<i>Weather today</i>	10:55 AM	> 75% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	5 to 70 degrees Fahrenheit				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>		
	10:16 AM- 10:42 AM 11:00 AM	Rising Rising Rising	65cm 80 cm 90 cm		
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:06 AM 10:00 AM 10:54AM	16.5 26.8 27.2	NR	North North North	Flood Flood Flood
<i>Water Temperature-</i>	10:27 AM	18.3° C	65° F		
<i>Turbidity- Long sight tube (120 cm)</i>	10:46 AM	45.1 cm			
Chemical					
<i>Salinity- HR Quantabs</i>	10:26 AM	7.8 Quantab units	3216 ppm Cl-	5,810 ppm Total Salinity	
<i>Standardized Salinity – HR Quantab</i>					
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>	
	10:28 AM	18.3° C	13	135%	
<i>pH – Color Match Kit</i>	10:47 AM	7.4			
<i>Nitrates- NR</i>					
<i>Phosphates- NR</i>					
<i>Alkalinity- NR</i>					
Biological					
<i>Fish – Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
9:00 AM- 11:45 AM	58	Atlantic Silverside	9 cm	7 cm	
	1	White Perch	18 cm	-	
	19	Striped Bass	14 cm	7 cm	

Fish Totals	TOTAL: 78	Diversity: 3			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	2 (1M & 1F) 1	Blue Crab Ctenophore sp.	6 cm	3 cm	
Macroinvertebrate Totals	TOTAL: 3	Diversity: 2			
<i>Sediment Core</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
7.5 cm	No	No	No	Abundant: clay, mud, sand, gravel, pebbles	Abundant: brick Rare: shells
<i>Boats-NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					