

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

Matthiessen Park, Irvington, NY

RIVER MILE: 25

Salt Front: ~ 76

Irvington UFSD- Amy Panitz

255 students & 32 adults

Latitude 41.04164 °N & Longitude -73.87398 °W

Location: Matthiessen Park, Irvington, NY

Area: The sampling beach has a pier, grassy area, large parking lot to the south. Area is primarily used for boating, jogging, walking, picnicking, and fishing

Surrounding Land Use: 30% Forested, 10% Beach, 60% Grass with playground

Sampling Site: Pier, forested, grassy, parking lot, beach, banks altered, riprap, wood bulkhead, pipe entering the water

Shoreline: 90% sandy and 10% rocky.

Water: 180cm depth, calm by the beach

Plants in area: few plants in the water

River Bottom: sandy and rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	11:25 AM	20.6° C	69°F		
<i>Wind Speed:</i>	11:30 AM	<i>Anemometer</i> 12 mph	<i>Beaufort</i> 2.5	<i>Direction</i> S/SE	
<i>Weather today</i>	11:00 AM	> 75% cloud cover	Light rain on/off in the morning		
<i>Weather the past 3 days:</i>	Sunny, high temps in low 70s, very little wind, no rain				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	9:45 AM-11:45 AM	Rising		33 cm 80 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	9:45 AM 11:00 AM 11:40 AM	22 33.3 40	NR	NR	Flood Flood Flood
<i>Water Temperature-</i>	11:00 AM	18°C	64°F		
<i>Turbidity- Short Sight Tube (60 cm)</i>	11:10 AM	46 cm			
Chemical					
<i>Salinity- Hydrometer</i>	10:55 AM	12 ppt			
<i>Standardized Salinity – Refractometer</i>	11:30 AM	10,000 ppm			
<i>DO – Chemets Kit</i>	<i>Time</i> 11:05 AM	<i>Temp</i> 18°C	<i>ppm DO</i> 9 ppm	<i>% saturation</i> NR	
<i>pH – Color Match Kit</i>	11:05 AM	6			
<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>	
9:45 AM- 11:30 AM	7	Atlantic Silverside	7 cm	3 cm	

		3 1	Striped Bass Summer Flounder	10 cm 11 cm	9 cm
Fish Totals	TOTAL:	11	Diversity: 3		
<i>Macroinvertebrates</i>	<i>Number</i>		<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
		12 1 1	Blue Crab Moon Jelly Oyster (alive)	8 cm	1 cm
Macroinvertebrate Totals	TOTAL:	13	Diversity: 2		
<i>Sediment Core -</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
11 cm	No	No	No	Abundant: sand Common: mud, pebbles	Rare: shells
<i>Boats-NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded