

Day in the Life of the Hudson River 10/05/2023

Pier I at 72nd St., Manhattan, NYC

RIVER MILE: 6.8

Salt Front: ~ 52

Speyer Legacy School-Kimberly Schwab

35 students, 7th grade, 7 adults

Latitude 40.780325°N & Longitude -73.988589°W

Location: Pier I at 72nd St, Manhattan, NYC

Surrounding Land Use: 100% Urban/Residential

Sampling Site: Pier

Shoreline: 33% Sandy, 33% Muddy, 33% Rocky

Water: Calm

River Bottom: Muddy & Rocky

Plants in the water: No Plants in the water

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature</i>	10:30 AM	20.1°C	68°F		
	11:00 AM	21°C	70°F		
	11:30 AM	21°C	70°F		
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 8 knots	<i>Beaufort</i> 3	<i>Direction</i> West	
<i>Weather today</i>	11:00 AM	<25% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	No rain over past 3 days, record setting rains (over 8'') occurred on September 29th				
<i>Tides- Dock to water</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	10:30 AM- 2:30 PM	Rising			
	2:30 PM	Falling			
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:30 AM	71	1.4		Ebb
	11:00 AM	16	0.31		Flood
	11:30 AM	22	0.43		Flood
	12:00 PM	13	0.02		Flood
<i>Water Temperature-</i>	10:30 AM	19.4°C	67°F		
	11:00 AM	18.3°C	65°F		
	11:30 AM	18.9°C	66°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:30 AM	80 cm			
	11:00 AM	72 cm			
	11:30 AM	65 cm			
Chemical					
<i>Standardized Salinity- High Range Quantabs – 8.6 QT units</i>	11:00 AM	9,035 ppm	9 ppt	5001ppm Cl-	
<i>Student Salinity- Hydrometer</i>	10:30 AM	9,000 ppm	9 ppt		
	11:00 AM	10,000 ppm	10 ppt		
	11:30 AM	10, 200 ppm	10.2 ppt		
<i>DO – Hach Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	10:30 AM	19.4°C		7 ppm	83%
	11:00 AM	18.3°C		7.1 ppm	83%
	11:30 AM	18.9°C		7 ppm	83%
<i>pH – Color Match Test Kit</i>	10:30 AM	7.5			
	11:00 AM	7.5			
	11:30 AM	7.5			

Biological

<i>Fish- Traps and Rod & Reel</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
10:30 AM-2:30 PM	1	American Eel	70 cm	Eel caught by an angler on the pier		
Fish Totals	TOTAL: 1	Diversity: 1				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Sex</i>		
	2	Crangon Shrimp	7.5 cm	6 M, 2F		
	1	Snail sp.	1.5 cm			
	8	Blue Crab	24 cm			
	1	Ctenophore Sp.	6 cm			
Macroinvertebrate Totals	TOTAL:	Diversity:				
<i>Sediment Core -can not core here</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats

Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded