

Day in the Life of the Hudson River 10/05/2023
Hudson River Park Pier 40, Manhattan, NYC
RIVER MILE: 2.9
Salt Front: ~ 52
NYC Museum School--Scott Wassmuth
Hudson River Project-Toland Kister
30 students, 9th-12th grade, 2 adults
Latitude 40.72842°N & Longitude -74.01379°W



Location: Pier 40, Hudson River Park, NYC
Surrounding Land Use: 100% Urban/Residential
Sampling Site: Pier, Concrete Bulkhead
Shoreline: Bulkhead
Water: Choppy
River Bottom: Muddy, 400-100 cm deep
Plants in the water: No Plants in the water
 *NR = Not read/recorded

ITEM	Time	Reading		Comments
<i>Physical</i>				
<i>Air Temperature</i>	10:21 AM	20°C	68°F	
	10:40 AM	21.1°C	70°F	
	11:21 AM	22.2°C	72°F	
<i>Wind Speed:</i>	11:21 AM	<i>Anemometer</i> 4-6 knots	<i>Beaufort</i> 2	<i>Direction</i>
<i>Weather today</i>	11:21 AM	<25% Cloud Cover	No Rain	
<i>Weather the past 3 days:</i>	Clear, Warm			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	10:21 AM	-		170 cm
	10:40 AM	Slack		170 cm
	11:00 AM	Rising		155 cm
	11:25 AM	Rising		162 cm*
				*Measurement Error
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Slack</i>
*Pier structure reduces water flow	10:21 AM	0		Slack
	10:40 AM	0		Slack
	11:00 AM	0		Slack

	11:33 AM	8.7	0.17		Flood	
Water Temperature-	10:27 AM	22.5°C		72.5°F		
	10:49 AM	23°C		73.4°F		
	11:06 AM	21.5°C		70.7°F		
	11:27 AM	24°C		75.2°F		
Turbidity- Long Sight Tube (120 cm)	10:20 AM	41.2 cm				
	10:41 AM	40 cm				
	11:00 AM	46.5 cm				
Chemical						
Standardized Salinity- Refractometer	5:30 PM	18,000 ppm		18 ppt		
Student Salinity- Hydrometer	10:32 AM	15,670 ppm		15.7 ppt		
		16,000 ppm		16 ppt		
	10:53 AM	15,670 ppm		15.7 ppt		
	11:06 AM	16,300 ppm		16.3 ppt		
	11:21 AM	13,670 ppm		13.7 ppt		
DO – Lamotte Drop Count Kit	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>	
	11:00 AM	21.5°C		6.2 ppm	68%	
pH – NR						
Biological						
Fish-Eel Mop & Traps	Number	Name		Length of longest	Notes	
10:20-11:30 AM	1	Black Seabass		5 cm		
	1	Tautog (Blackfish)		26 cm		
Fish Totals	TOTAL: 2	Diversity: 2				
Macroinvertebrates	Number	Name		Length of longest		
	15	Palaemonetes Shrimp				
	4	Oyster Drill				
	1	Common Spider Crab				
Macroinvertebrate Totals	TOTAL: 20	Diversity: 3				
Sediment Core -Not able to core on pier	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features

Boats-NR					
Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded