

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

People's Waterfront, Newburgh, NY

RIVER MILE: 60.5

Salt Front: ~ RM76

Scenic Hudson- Katie Phipps

& NFA P Tech - Joyce D'Imperio

55 students & 6 adults

Latitude 41.4934 N Longitude - 74.00741 W

Location: Newburgh Waterfront- People's Waterfront and Boat Launch, Newburgh, Orange County, NY

Area: Pier, dock with bulkhead, riprap, and wood bulkhead d

Surrounding Land Use: 75% Industrial/Commercial; 25% Park

Sampling Site: Shore with bulkhead, banks altered with riprap, debris in area

Shoreline: rocky

River Bottom: Muddy, rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	10:25 AM	20° C	68°F	
<i>Wind Speed:</i>	10:20 AM	<i>Anemometer</i> 48 mph	<i>Beaufort</i> 9	<i>Direction</i> NR
<i>Weather today</i>	10:25 AM	> 75% cloud cover	Drizzle	
<i>Weather the past 3 days:</i>	Sunny fall day, high 60s, rain on DITL			
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
	10:45 AM	1.03	0.2	North
	11:15 AM	0.81	0.2	North
<i>Water Temperature-</i>	11:18 AM	17°C	62°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:20 AM	43 cm	Long sight tube 35 cm Secchi 40 cm	
Chemical				
<i>Salinity- LR Quantabs</i>	10:11 AM 10:48 AM 11:18 AM	489 ppm Cl- 423 ppm Cl- 342 ppm Cl-	883 ppm total salt 764 ppm 617 ppm	
<i>Standardized Salinity - HR Quantab - NR</i>				
<i>DO - Hach Drop Count Kit</i>	<i>Time</i> 10:11 AM	<i>Temp</i> 17°C	<i>ppm DO</i> 10 ppm	<i>% saturation</i> 80%
<i>pH - Color Match Kit</i>	10:11 AM 10:48 AM 11:18 AM	8.2/7.4 7.6 7.4		Avg 7.8
<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>

<i>11:00 AM</i>	184	Herring sp.		
	12	Spottail Shiner	12 cm	
	22	Atlantic Silverside		
	2	White Perch	15 cm	
	1	Striped Bass		
Fish Totals	TOTAL: 221	Diversity: 5		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0		
<i>Sediment Core -</i>				
Length	H2S smell	Oxid Top	Oil	Grain Size
<i>Boats-</i>				
	Time	Name	Color	North/Southbound