

Day in the Life of the Hudson River 10/13/22
Rensselaer Boat Launch
RIVER MILE: 146
Salt Front: ~ RM76
Tech Valley High School– Ashley Phillips
75 students & 4 adults
Latitude 42.6575691°N & Longitude – 73.7331464°W

Location: Rensselaer Boat Launch, Rensselaer County, NY
Area: Rocky beach, dock; near hotel, train station, and train tracks
Sampling Site: sandy and rocky beach, parking lot
Surrounding Land Uses: 50% Urban/Residential, 50% Industrial/Commercial
Shoreline: Beach with sandy, small rocks, concrete boat launch
River Bottom: Muddy and Sandy
Water: Calm
Plants in the Water: NR

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>			<i>Comments</i>
Physical					
<i>Air Temperature-</i>	11:00 AM 11:30 AM	19°C 21°C	67°F 69.8°F		
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<i>Weather today</i>	11:00 AM	26-51% cloud cover	No Rain		
<i>Weather the past 3 days:</i>	Sunny				
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>	
	11:30 AM 11:45 AM 12:00 PM	Falling Falling Falling		18 cm 7 cm 2 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
<i>*all of these speeds seem high – perhaps missing a decimal?</i>	9:30 AM 10:00 AM 10:30 AM	381 300 277	NR	NR	NR
<i>Water Temperature-</i>	9:38 AM 11:00 AM	15°C 17°C	59°F 62.6°F		
<i>Turbidity- Tabletop tube (JTUs)</i>	10:15 AM 10:45 AM 11:00 AM	0 JTU 5 JTU 5 JTU			
Chemical					
<i>Salinity-Quantabs Meter/probe</i>	10:07 AM 10:07 AM 10:40 AM	29 ppm Cl- 25 ppm (meter) 52.5 ppm (meter)		1.4 quantab units	52 ppm total salinity
<i>Standardized Salinity – NR</i>					
<i>DO – Meter/Probe</i>	<i>Time</i> 11:30 AM 10:30 AM	<i>Temp</i> 15°C 17°C	<i>ppm DO</i> 9 ppm 8 ppm		<i>% saturation</i> 90% 80%
<i>pH – Color Match Kit</i>	9:50 AM 10:16 AM 10:36 AM	6.8 *pH seems low 6.4 6.4			
<i>Nitrates-</i>	10:25 AM	0.4 ppm			
<i>Phosphates-</i>	9:45 AM	1.5 ppm average of two readings			*Average of two numbers

<i>Alkalinity- titration</i>	9:50 AM	90 ppm			
<i>Biological- Did Not Seine</i>					
<i>Fish – Scott brought fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
Fish Totals	TOTAL:	Diversity:			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
Macroinvertebrate Totals	TOTAL:	Diversity:			
<i>Sediment Core – NR</i>					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
<i>Boats- NR</i>					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Recreational					