

Day in the Life of the Hudson River 10/05/2023
Rensselaer Boat Launch, Rensselaer, NY
RIVER MILE: 146
Salt Front: ~ RM 52
Tech Valley High School-Ashley Phillips
43 students, 9th grade, 3 adults
Latitude 42.6587°N & Longitude -73.73452°W

Location: Rensselaer Boat Launch, Rensselaer, NY

Surrounding Land Use: 50% Urban/Residential and 50% Industrial/Commercial

Sampling Site: Boat launch with a small beach area, floating dock, grassy areas and parking lot nearby

Shoreline: 100% Sandy

Water: Calm

River Bottom: Sandy & Muddy

Plants in the water: No Plants

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
Physical					
<i>Air Temperature-NR</i>		° C	° F		
<i>Wind Speed: NR</i>		<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>	
<i>Weather today</i>	9:45 AM	<25% Cloud Cover		No Rain	
<i>Weather the past 3 days:</i>	Clear				
<i>Tides- NR</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	9:09 AM	3.58	0.07		
	9:25 AM	5.56	0.11		
	9:39 AM	4.66	0.09		
	9:44 AM	5.84	0.11		
<i>Water Temperature-</i>	9:44 AM	20°C		68°C	
<i>Turbidity- Tabletop Tube (JTUs)</i>	9:10 AM	15 JTU			
	9:30 AM	30 JTU			
	10:20 AM	13 JTU			
Chemical					
<i>Standardized Salinity- Low Range Quantabs</i>	9:30 AM	1.2 quantab units Below Detection			
<i>Student Salinity-Low Range Quantabs</i>	9:45 AM	0.5 ppm*		*this doesn't equate to a measure? No units?	
<i>DO – Chemets Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:00 AM	20°C		8 ppm	100%
	9:24 AM	20°C		9 ppm	85%
	9:44 AM	20°C		10 ppm	110%
<i>pH – Color Match Kit</i>	9:05 AM	6.4			
<i>Nitrates- Lamotte Kit</i>	9:30 AM	2 ppm			
<i>Phosphates- Chemets Kit</i>	9:30 AM	<1 ppm			
<i>Alkalinity-Chemets Kit</i>	9:40 AM	120 ppm			
Biological-Did not Fish					

<i>Fish-</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>
Fish Totals	TOTAL:	Diversity:		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Macroinvertebrate Totals	TOTAL:	Diversity:		
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats					
Commercial/Recreational	Time	Name	Color	Southbound/Northbound	Light/Loaded
Recreational	10:26 AM	Sailboat	White	Southbound	Light