

Day in the Life of the Hudson River 10/22/19
PEEBLES ISLAND
RIVER MILE: 154
Salt Front: ~ RM 53
Cohoes High School- Laura Murawski
25 students 9th grade, 2 teachers
Latitude 42.78305 & Longitude – 73.68137 W

Location: Peebles Island Park, the confluence of the Hudson River and the Mohawk River, Waterford, NY

Area: Park just north of the Troy dam at the pavilion, grassy embankment, riprap- sampled by the pavilion area

Surrounding Land Use: Forested

Sampling Site: Park land

Shoreline: 75% grassy, 25% riprap

Water: 6 feet

River Bottom: Muddy and weedy bottom

Plants in water: no plants in water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	8:30-10:30 AM	11 ° C		
<i>Wind Speed:</i>	8:30-10:30 AM	Beaufort 2		
<i>Weather today</i>	Cloud cover 95%.			
<i>Weather the past 3 days:</i>	Rained in the last 24 hours			
<i>Tides- *This location is above the Troy Dam and the head of tide</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
Note: Flow as above the head of tide.	8:30-10:30 AM	27.432	South	N/A
<i>Water Temperature</i>	8:30-10:30 AM	Avg: 10 ° C		
<i>Turbidity- long sight tube</i>	8:30-10:30 AM	Avg: 33.8 cm		
Chemical				
<i>Salinity- NA – freshwater section</i>				
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:30-10:30 AM	Avg: 10 ° C	Avg: 10.4 ppm	89.7%
<i>pH – pH strips</i>	8:30-10:30 AM	5 *low, they thought it could be due to the sampling strips		
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Seined: 3 hauls	8	Banded Killifish		
All catch from first haul	23	Spottail Shiner		
	4	Striped Bass		
	31	Tessellated Darter		
	3	Smallmouth Bass		
Fish Totals	TOTAL: 69	Diversity: 5		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	NR			
Macroinvertebrate Totals	TOTAL:	Diversity:		
<i>Sediment Core</i>	<i>Time</i>	<i>Oxidized Top</i>	<i>Grain Size</i>	<i>Other Features</i>

30.5 cm	NR	No oxidized top	Abundant: Clay Some: Mud Rare: Sand	Presence of zebra mussels
Boats	Time	Name/Color	North/South	Loaded/Light
Recreational Commercial	NA NA	Paddleboat Cruise ship	North South	
Observations	Tugboat docked			