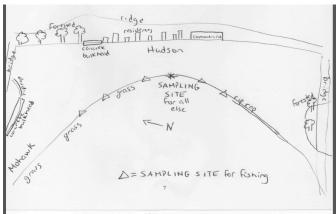
Day in the Life of the Hudson River 10/20/15 Data (Above the Troy Dam and the Head of Tide) RIVER MILE 154

Peebles Island State Park, Waterford, NY
Becky Zimmerman, Angela Jones and Raquel Santiago-Parker
Pine Hills Elementary School
50 students – 4th grade, 10 adults total
42°47.051'N and 73°40.706 W



Peebles Sampling Area





Location: Pavilion at Pebbles Island Park at 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, rip rap

Surrounding Land Use: 75% grassy, 25% riprap

Sampling Site: Park area

Shoreline: riprap Plants in area: none

Water depth: 12 - 36 inches River Bottom description: muddy

	Time	Reading 1	Reading 2	Comments	
Physical					
Air Temperature	9:40AM	50°F	10°C		
_	10:40 AM	50°F	10°C		
	12:00 PM	55°F	12.8°C		
	12:45 PM	63°F	17°C		
Wind Speed	10:00 AM	Beaufort #4	Anenometer kts.	Direction: SE	
Cloud Cover	Mostly cloudy to start then clear				
Weather today	Drizzle at 9:40 and 10:40 AM but then stopped				
Weather recently	Cool and fall li				
Water surface	Calm				
Water Temperature	9:35 AM	11°C	52°F		
-	10:13 AM	11	52		
	12:07 PM	11	52		
	12:45 PM	11	52		
Turbidity –	9:30 AM	39.8 cm	±12	Each group	
long site tube	10:15 AM	93.8 cm	±14	had a new	
averages & standard	11:45 AM	48.5 cm	±5	sample, not	
deviation	12:30 PM	17.2 cm	±2	all from same place	
Chemical	Time	Water Temp	ppm	saturation	
DO - drop count	Unable to test	•			
pH – indicator solution	12:40 PM	7.0 7.2 7.2		Average 7.1	
Fish Catch – 10 ft. net	Number	Species	Size largest		
10ft - 1 cm mesh-	39	Banded	seined		
10m pull		killifish	Schica		
~ 4 seines	20	Spottail	seined		
r Scilles	20	shiner	Scilica		
9:40 AM – 1:00 PM	5	Darter	seined		
	4	Sunfish	seined		
	Totals 68	Diversity 4			
Trapped by	1	Gizzard	larger		
Fisheries group in a		Shad			
trap set the night	1	Striped	larger		

before		Bass		
Macroinvertebrates		Freshwater		
		scud		
		Green		
		Caddisfly		
Water Level	Time	Height	Change	Change
				Rate
This is above the	9:40 AM	22.9 cm		
head of tide. Water	10:40 AM	27.9 cm	5 cm/60	0.083
level changes have			mins	cm/min
to do with releases	12:00 PM	29.2 cm	1.3 cm/60	0.013
that occur from			min	cm/min
hydro plant that	12:45 PM	25.4 cm	-3.8 cm/60	-0.084
empties into the			min	cm/min
river below Cohoes				
Falls.				
Water Flow Velocity	Time	Rate of flow	Direction	
This is not a tidal	9:40 AM	8.1 cm/sec	North	
current just flow. At	10:40 AM	No	Still	
the confluence of		movement		
two waterways the	12:00 PM	2.1 cm/sec	South	
water direction can	12:45 PM	2.4 cm/sec	South	
change.				
Boat Traffic	9:40 AM		North	recreational
	10:40 AM		South	recreational
Other	1 bald eagle	Seagulls		