

**Day in the Life of the Hudson River 10/12/17 Data
(Saltfront ~ RM 65)**

(Above the Troy Dam and the Head of Tide)

RIVER MILE 154

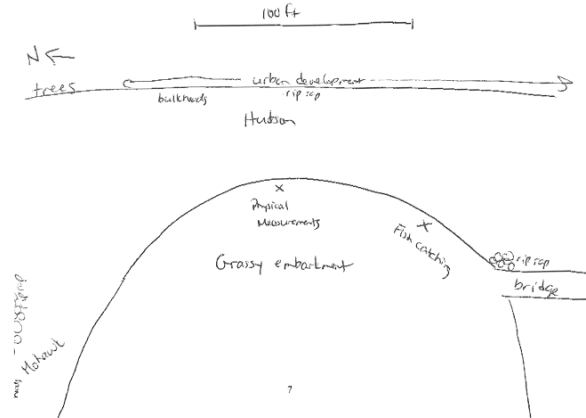
Pebbles Island State Park, Waterford, NY

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Pine Hills Elementary School

60 students – 4th grade, 10 adults total

42°47.051'N and 73°40.706 W



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 – sampled by the pavilion area

Surrounding Land Use: 75% grassy, 25% riprap

Sampling Site: Park area

Shoreline: riprap, grass

Plants in area: none

Water depth: 12 - 36 inches

River Bottom description: muddy

	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:54 12:48	60°F 70°F	15°C 20°C	
Wind Speed	9:54 10:47 12:09 12:48	3.1m/s 1.9 3.4 2.1		Variable wind, generally NE/NW
Cloud Cover	Partly Cloudy, no rain			

Weather today	Overcast			
Weather recently	Some rain			
Water Temperature	10:00	50°F	10°C	
	10:29	50	10	
	12:00	55	12.8	
	12:40	53	11.7	
Turbidity – long site tube	10:00-12:40	84cm, 80, 89	Average: 84.3cm	
Chemical	Time	Water Temp	ppm	saturation
DO	10:21-1:12	11°C	8ppm	70% saturation
Drop Count Test kits				
pH – indicator solution	10:00-1:01	7.9, 7.8, 7.8	Average:7.83	
Fish Catch – 10 ft. net	Number	Species	Size largest	
9:30-1:00	41	Banded killifish	62 mm	DIV: 3
	233	Spottail shiner	102 mm	TOTAL: 275
	1	Blue back herring	44 mm	
	DIV 3	TOTAL	202	
Water Level	Time	Height	Change	Change Rate
<i>This is above the head of tide. Water level changes have to do with releases that occur from hydro plant that empties into the river below Cohoes Falls.</i>	19:54	22.9cm		--
	10:30	22.9	Unchanged	0cm/min
	12:09	20.3	Falling	.03
	12:48	20.3	unchanged	0
Water Flow Velocity	Time	Rate of flow (cm/sec)	All flow is South	
<i>This is not a tidal current just flow. At the confluence of two waterways the water direction can change.</i>	9:54	9.4		
	10:47	7.2		
	12:09	6.7		
	12:48	6.1		
Boat Traffic	9:45	Commercial	North	Large Tug
	9:57	Recreational	North	
	10:30	Commercial	South	Light
	10:59	Recreational	South	
	11:03	Recreational	South	
	12:30	Recreational	South	

<i>Other</i>	Geese, seagulls, woodpecker
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