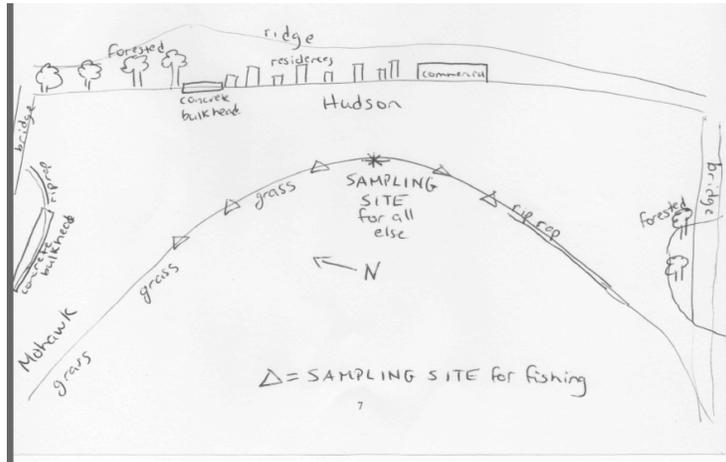
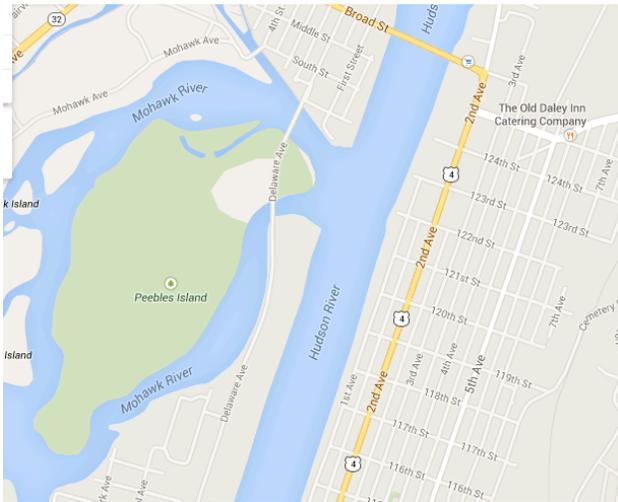


**Day in the Life of the Hudson River 10/16/14 Data  
(Above the Troy Dam and the Head of Tide)  
RIVER MILE 154**

**Peebles Island State Park, Waterford, NY  
Becky Zimmerman, Zipporah Galimore and Angela Jones  
Pine Hills Elementary School  
53 students – 4<sup>th</sup> grade, 19 adults total  
42°47.051'N and 73°40.706 W**



**Peebles Sampling Area**



**Location:** 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  
**Surrounding Land Use:** 75% grassy, 25% riprap  
**Sampling Site:** Park area  
**Shoreline:** riprap  
**Plants in area:** none  
**Water depth:** 12 inches  
**River Bottom description:** muddy

	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b>Physical</b>				
Air Temperature	9:54 AM 12:55 PM	72°F 72°F	23°C 23°C	
Wind Speed	9:54 AM 10:39 AM 12:02 PM 12:55 PM	3.5 kts 5.8 kts 18.3 kts 18.3 kts	1 2 5 5	Direction: South

Cloud Cover	Mostly cloudy			
Weather today	Overcast, barest sprinkles for about 10 minutes			
Weather recently	Heavy rain previous evening and heavy rain further up the Mohawk river earlier today.			
<b>Water surface</b>	Calm early Choppy later			
<b>Water Temperature</b>	9:43 AM 10:30 AM 11:55 AM 12:42 AM	18°C 16 20 19	65°F 60 68 67	*C based on reported F temperatures as they had disagreed
<b>Turbidity – long site tube averages</b>	9:30 AM 10:20 AM 12:00 PM 12:30 PM	31.7 cm 21.7 cm 61.9 cm 38.6 cm	7 readings 3 readings 2 readings 4 readings	
<b>Chemical</b>	<b>Time</b>	<b>Water Temp</b>	<b>ppm</b>	<b>saturation</b>
DO - drop count	9:43 AM - 12:42	21.5°C	5.5 ppm	60%
pH – indicator solution	12:42 PM		7.5ppm 7.5 8 8	Average 7.8
<b>Water Level</b>	9:54 AM 10:39 AM 12:02 PM 12:55 PM 1:45 PM	33.02 cm 34.29 33.02 36.83 45.72	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.	
<b>Velocity</b>	9:54 AM 10:39 AM 12:02 PM 12:55 PM	7.8 cm/sec still 2.4 cm/sec still	Southerly winds	
<b>Fish Catch – 10 ft. net</b>	<b>Number</b>	<b>Species</b>	<b>Size largest</b>	<b>Diversity</b>
10 m pull/ ½ cm mesh-	146	Banded killifish	113 mm	<b>Diversity 5 Totals 161</b>
9 seines –	11	Spottail shiner	85 mm	
9:58 AM – 12:56 PM	1	Largemouth bass	142 mm	
	2	Herring	75 mm	
	1	Shiner	122 mm	
<b>Boat Traffic</b>	10:15 AM	Small	North	recreational

		fishing boat		
	1:10 PM	Medium fishing boat	South	Commercial
<i>Other</i>	1 bald eagle	Seagulls	Canadian geese	crows
	1 decomposing bird on embankment			