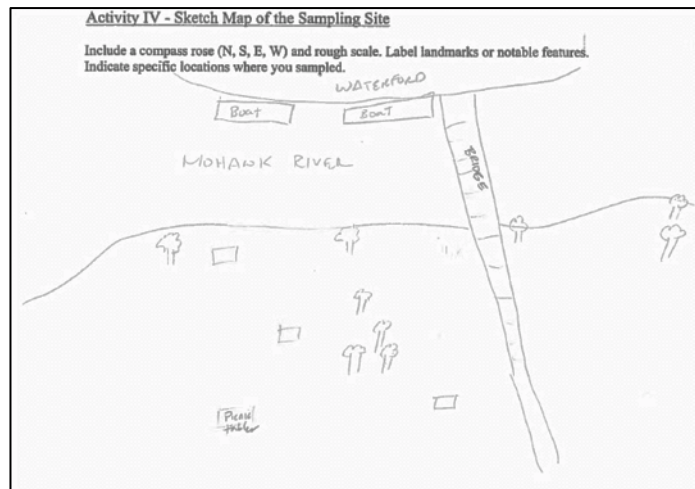


**Day in the Life of the Hudson River 10/20/16 Data
(Above the Troy Dam and the Head of Tide)
RIVER MILE 154
Pebbles Island State Park, Waterford, NY
Laura Murawski, Cohoes High School
Pine Hills Elementary School**



**59 students – 9th & 10th grade, 5 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

Surrounding Land Use: 25% forested, 75% grassy

Sampling Site: Park area

Shoreline: riprap

Plants in area: about 20% has plants - unidentified

Water depth: 12 inches

River Bottom description: sandy and rocky

	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:15AM 11:00 AM	51°F 51°F	10.6°C 10.6°C	
Wind Speed	AM	Beaufort #1		
Cloud Cover	Mostly cloudy			
Weather today	Precipitation 0.51 inches – nice in the AM, then cloudy, then heavy rain about noon			
Weather recently	Sunny and warm, yesterday was also windy			
<i>Water surface</i>	Calm			
<i>Water Temperature</i>	9:15 AM 9:54 AM 10:45 AM	13°C 11 12	52°F 51.8 53.6	X 3 X 2 X 2
<i>Turbidity – long site tube</i>	9:08 AM	98.8 cm 116.8 cm 118.6 cm		Avg 111.4 cm
<i>Chemical</i>	<i>Time</i>	<i>Water Temp</i>	<i>ppm</i>	<i>saturation</i>
DO - drop count	11:05 AM	12 °C	9	80%
pH – meter	9:59 AM	6.5 7.5 6		Average 6.7
<i>Fish Catch – 10 ft. net</i>	<i>Number</i>	<i>Species</i>	<i>Size largest</i>	
8ft – 1/4 inch mesh- 25ft pull	5	Spottail shiner	5 cm	4 seines
	<i>Diversity 1</i>	<i>Totals 5</i>		
<i>Water Level</i>	<i>Time</i>	<i>Height</i>	<i>Change</i>	<i>Change Rate</i>
<i>This is above the head of tide.</i>	9:15 AM	No change		
	9:43 AM			
	10:17 AM			
	11:07 AM			
<i>Water Flow Velocity</i>	<i>Time</i>	<i>Rate of flow</i>	<i>Knots</i>	<i>Flow</i>
<i>Mohawk River Flow – there are some large boats in the area that may influence rate of flow</i>	9:15 AM	3.4 cm/sec	0.066	East
	10:15 AM	11.08 cm/sec	0.22	
	11:00 AM	9.2 cm/sec	0.18	
<i>Sediment Core</i>	<i>Description</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>

	28 cm length	none	Sand	Clay
	H2S smell			Mud
<i>Boat Traffic - recreational</i>	9:07 AM 11:30 AM	Kayak Yacht	W S	Into Mohawk
<i>Commercial</i>	10:30 AM	Large Boat	N	
<i>Other</i>	1 leaned a lot about how to better collect & organize the data for next year, but not bad for the first time.			