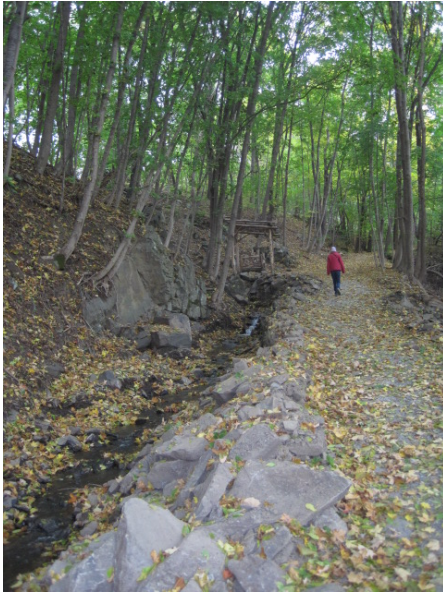


Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 100
South Cove at Falling Waters, Glasco, Ulster County
Brian Robinson, Saugerties High School, 13 AP Env. Sci. 11th-12th grade students
and 2 adults
N 42. 049457 , W-73.939081



Location: Falling Waters South Cove
Area: Forested
Surrounding Land Use: 100% forested
Sampling Site: Parkland, beach covered in vegetation, concrete bulkhead
Shoreline: Sandy, muddy, rocky
Depth: could not see bottom
Plants in area: water is 40% covered with water chestnut
Site Observations: Old brick pieces on the ground names on bricks are Wasburn, Lent, ...Bury, lots of old washed up logs, seaweed
Water: Choppy

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	10:47 AM	12.6°C	54 °F	
Wind Speed	10:42 AM	Beaufort 3		
Cloud Cover	10:45 AM	Mostly Cloudy	51-75%	
Weather today	Clear no rain, warm and windy		<i>Water surface</i>	
Weather recently	No rain for past 3 days. Sunday 10/18 unusually cold and windy. Monday 10/19 seasonal temperatures but still a bit windy.			
<i>Water Temperature</i>	10:51 AM 11:03 AM	12°C 12°C	54 °F 54 °F	1 ft. depth,
<i>Turbidity</i>	10:51 AM	40 cm 41 cm 38 cm	39.6 cm average	Water was very cloudy, with small black particles

<i>Chemical</i>	<i>Time</i>	<i>ppm</i>	<i>Temp</i>	<i>% Sat</i>
DO Drop count kit	11:00 AM	9	12.2°C	80%
pH color match test	10:53 AM 11:00 AM	8 8		
Salinity –titration strips	11:57 AM 12:08 PM 12:14 PM	1.6 strip 1.4 1.4	34 ppm Chl	61 ppm TS
<i>Fish Catch</i>	<i>Time</i>	<i>Species</i>	<i># caught</i>	<i>Size</i>
	11:15 AM	Blueback herring	5	Y-o-y 4-5 cm
<i>Tides - water depth</i>	<i>Time</i>	<i>Distance to water</i>	<i>Rate of change</i>	<i>Flood or Ebb</i>
	11:06 AM 11:08 AM 11:10 AM 11:11 AM 11:15 AM 11:18 AM	15 cm 14 cm 13 cm 13 cm 11 cm 11 cm	ebbing	
<i>Currents</i>	<i>Time</i>	<i>Cm/30 sec</i>	<i>Cm/sec</i>	<i>Knots & Ebb/Flood</i>
	10:50 AM	60 cm	2 cm/sec	Ebb
<i>Recreational Traffic</i>	10:55 AM	Pleasure boat	Blue/white	Docked – carrying small sailboat
	11:21 AM	Luxury boat	White	South - light
<i>Observations</i>	Bricks, spiders, water chestnut in the area. And lots of logs and valissneria ('seaweed')			