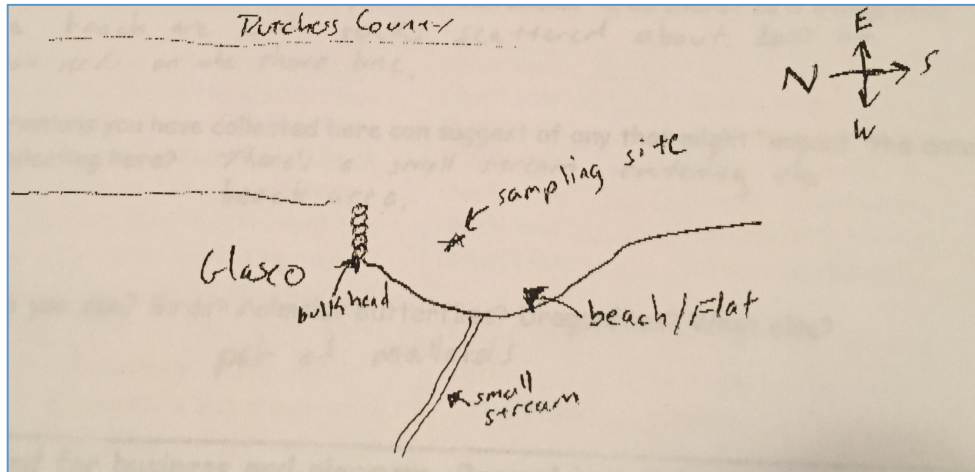


**Day in the Life of the Hudson River 10/20/16 Data**  
**(Saltfront ~RM 83)**  
**RIVER MILE 100.5**  
**South Cove at Falling Waters, Glasco, Ulster County**  
**Brian Robinson, Saugerties High School, 13 AP Env. Sci. 11<sup>th</sup>-12<sup>th</sup> grade students**  
**and 2 adults**  
**N 42. 046752, W-73.939081**



**Location:** Falling Waters protected area, South Cove, Glasco, Ulster County

**Area:** Forested, cove with a shallow beach

**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

**Bottom:** Sandy, muddy

**Water:** Choppy

<i>ITEM</i>	<i>Time</i>	<i>Readings</i>		
<i>Physical</i>				
Air Temperature	10:45 AM	17°C	62 °F	
Wind Speed	10:42 AM	Beaufort 3		
Cloud Cover		Overcast	>75%	
Weather today	Cloudy		<i>Water surface</i>	
Weather recently	Warm and dry			
<i>Water Temperature</i>	10:45 AM	17.6°C	63.7 °F	2 ft. depth,

<b><i>Turbidity</i></b>	NR			
<b><i>Chemical</i></b>	<b>Time</b>	<b>ppm</b>	<b>Temp</b>	<b>% Sat</b>
DO Drop count kit	11:10 AM	17.6 ppm*	20°C	*Too high – must have been an air bubble
pH color match test	10:45 AM	8		
Salinity –titration strips	10:45 AM	1.2 strip	32 ppm Chl	58 ppm TS
Alkalinity	10:45 AM	80 ppm		
Nitrates	10:51 AM	8.8 mg/L		
Phosphates	11:00 AM	2 mg/L		
<b><i>Fish Catch – 30 ft.</i></b>	<b>Species</b>	<b># caught</b>	<b>Length of largest</b>	<b>TOTALS</b>
11:00 AM	Blueback herring	1	45 mm	<b>DIV 6 TOTAL 9</b>
	Spottail Shiner	1	40 mm	
	White Perch	1	90 mm	
	Bluegill Sunfish	2	80 mm	
	Pumpkinseed Sunfish	3	130 mm	
	Tesselated Darter	1	60 mm	
<b><i>Tides - water depth</i></b>	<b>Time</b>	<b>Distance to water</b>	<b>Rate of change</b>	<b>Flood or Ebb</b>
	10:44 AM 11:10 AM	13 cm 6 cm	7 cm drop	Ebb
<b><i>Currents</i></b>	<b>Time</b>	<b>Cm/30 sec</b>	<b>Cm/sec</b>	<b>Knots &amp; Ebb/Flood</b>
	NR			
<b><i>Commercial Shipping</i></b>	11:00 AM	UBC Ship		Southbound
	11:10 AM	Barge & Tug		Northbound
<b><i>Observations</i></b>	Beach area with rocks scattered around and lots of chestnut seeds on the shoreline. Pair of mallards			