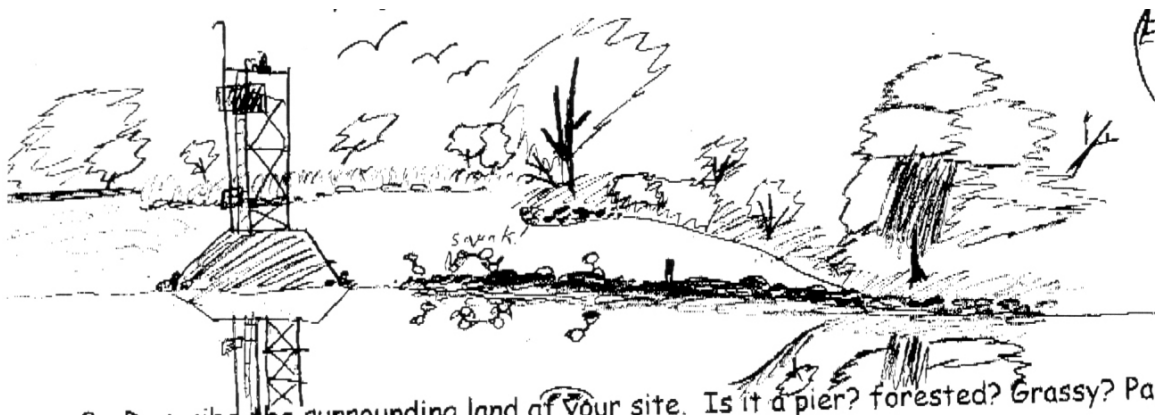


**Snapshot Day 10/7/08 Data
(Salt Front RM 63.4)
RIVER MILE 102**

**Saugerties Light House, Town of Saugerties, Ulster Co.
Betsy Blair, NYSDEC HREP**

Matthew Essery, Woodstock Day School grades 5th, 6th, 10th, 11th – 32 students



Location: Saugerties Light house @ northern bank of peninsula
Area: fishing, swimming beach, has a building with restrooms
Surrounding Land Use: Forested 60%, Beach 10%, Commercial (bed & breakfast) 10%, Marsh & Tidal wetlands 20%
Sampling Site: beach, altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse.
Water depth: unknown
River Bottom : sandy, weedy and rocky bottom
Plants in area: South side 15% cover, 0% northside - Note there was a frost previous to the sampling day.
Shallows: 75% water celery; 25% Water chestnut
Tidal Marshes: Common Reed 30%, Sedges 30%, River Bulrush 30%; Wildrice 5%; Claspng Pondweed 5%

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:00 AM	41°F	12:40 PM	65°F
Wind Speed	4-2 on beaufort	calm		
Cloud Cover	clear			
Weather today	No rain - the wind was calm out of the south at first, then about 12:30 PM it came out of the North and was a moderate breeze.			
Weather recently	Rainy and unseasonably cool			
<i>Water Temperature</i>	10:00 AM	16°C		

Water Calm	10:25 AM	17°C		
	10:47 AM	17°C		
	12:00 PM	17°C		
	12:30 PM	19°C		
Turbidity secchi	10:00 AM	2.25 meters 2.0 meters 2.25 meters		2.25 meters average
Chlorophyll	10-noon	0.3	As the day went on the chlorophyll # increased	
Chemical				
DO (ampules)	10:00 AM	8 mg/L decreased a bit through the day	16°C	80%
pH – pH meter	10- noon	8.2 average		
Phosphate				
Nitrate			0	0
Alkalinity				
Salinity	10-noon	0.1 0.5 0.8	0.4 ppm avg.	Drop count test kit
Fish Catch - 50'seine	Number Caught	Species	CPUE	Seine
	89	Banded Killifish		
	36	Spottail Shiner		
	2	Snail		
	65	Zebra Mussels		
	3	Backswimmers		
TOTAL CATCH	70			
Tides				
	10:00 AM	45 cm	falling	
	10:15 AM	43 cm	falling	
	10:22 AM	40 cm	Falling	
	10:37 AM	37 cm	Falling	
	10:50 AM	34 cm	Falling	
	11:05 AM	31 cm	Falling	
	12:00 PM	21 cm	Falling	
	12:15 PM	19 cm	Falling	
	12:21 PM	17cm	Falling	
	12:36 PM	13 cm	Falling	
Currents				

<i>Traffic</i>	10:45 AM	Large Ship	North	Light
	11:00 AM	Fishing Boat	Around lighthouse	
	12:30 PM	Sailboat	South	
<i>Other Items</i>	A flock of swan flew in and swam around most of the day, immature bald eagle, several cormorants, mallard ducks			