

Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 102
Saugerties Light House, Town of Saugerties, Ulster Co.
Josh Platt & Matt Essery, Woodstock Day School
grades 6th & 10th , – 35 students and 5 adults

Location: Saugerties Light house @ northern bank of peninsula

Area: fishing, swimming beach, has a building with restrooms

Surrounding Land Use: Forested 60%, Beach 20%, Commercial (bed & breakfast) 5%, Urban/Residential 15%

Sampling Site: beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, piping entering the river.

Water depth: 10 cm

River Bottom : rocky,

Plants in area: No plants in sampling area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:25 AM	50°F 14°C		
Wind Speed	Not noted		Southern wind	
Cloud Cover	overcast			
Weather today				
Weather recently				
<i>Water Temperature</i>	11:40 AM	15°C		
<i>Water Calm or Choppy</i>				
<i>Turbidity secchi</i>	10:40 AM	24 inches		
		18 inches		15.3 inches average
	11:25 AM	21 inches		
	11:25 AM	17 inches		
	unknown	16.5 inches		
<i>Chlorophyll</i>	10:47 AM	1.0		
<i>Chemical</i>				
DO (ampules)	11:00 AM	7 mg/L	15°C	73%
	1:15 PM	8 mg/L	18°C	83%
pH – color match kit	10:50 AM 11:20 AM 1:17 PM	7.2 7.0 6.5		Average 7.0

	1:50 PM	7.5		
Salinity – Quantabs - *don't make sense for this part of the river	11:10 AM 11:30 AM 1:25 PM	0.2 *4 *4.4	< 29 ppm chloride	<52.39 total salinity
<i>Fish Catch - 9'seine X 3.8 ft. wide – 18 seines</i>	<i>Number Caught -</i>	<i>Species – diversity</i>	<i>Length of largest</i>	<i>Seining data</i>
	2	Killifish	2-2.5 inches	
	1	Darter	1.5 inches	
	7	Black Crappie	3 inches	
NOTE: Also netted 50 plants	1	Smallmouth bass	6 inches	
	2	Herring	2 inches	
	3	Spottail Shiner	2 inches	
	2	White perch	6 inches	
<i>TOTALS</i>	18	7 species		
<i>Macroinverts</i>		Scud		
		Caddisfly Larva		
		Damselfly larva		
		Midge Larva		
		4 Species		
<i>Tides</i>	Time	Height	Falling/Rising	
	10:50 AM	33.5 cm		
	11:20 AM	26.5 cm	Falling	
	1:11 PM	20.5 cm	Falling	
	1:30 PM	24 cm	Rising	
<i>Currents</i>	TIME	Cm/60 secs	Cm/sec	N/S and E/F/S
	10:54 AM			Ebb
	10:54 AM			Ebb
	1:23 PM			still
The lighthouse creates an embayment. This swampy area most likely had a different current and tide than the middle of the Hudson would have.				
<i>Core</i>	Rotation	Rare	Common	Abundant
	#1		Sand mud	
	#2	Clay Leaves		Sand
<i>Ships</i>				