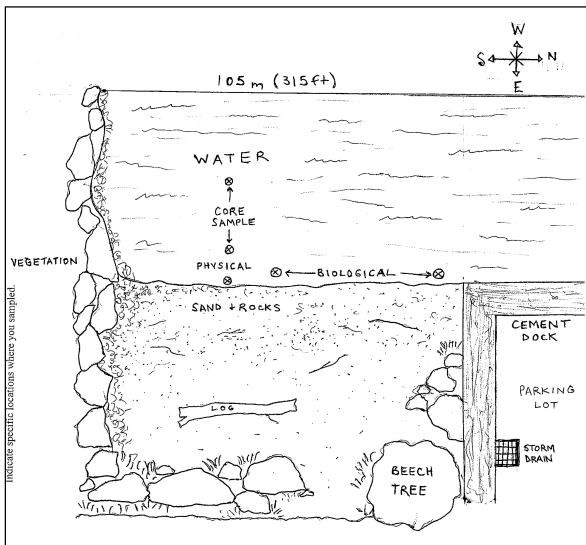


**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 41**

**Steamboat Dock Park, Verplanck, Westchester
Bob Connick, Sott Rizzo, Jack Mozel, Taylor Block, Mahopac High School
Environmental Research and APES - 9th - 12th graders – 45 students
Latitude N 41°14.962 Longitude W 73°57.888**



Location: Steamboat Dock Park beach, City of Verplanck in Westchester County
Area: located in a small cove between a point and a bulkhead – sampled approximately 30 ft. from south end of dock/parking lot

Surrounding Land Use: Industrial/Commercial 25% , beach 70%, Forested 5%. Some buildings with large parking lots in front to the north. Beach, a street with houses with some trees to the south

Sampling Site: beach, riprap, banks altered, dock, bulkhead, pipe south of the sampling site 10-15 meters.

Plants in area: none
Water depth: 109 cm
River Bottom – sandy
Observations- 2% bur-reed in area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:58 AM	15 °C 60°F		
Wind Speed	Beaufort #2	4-6 knots	6-11 kph	West
Cloud Cover	Partly			

	cloudy			
Weather today	No rain			
Weather recently	Clear, cool, light showers			
Water Surface	Calm			
Water Temperature –				
Turbidity –		40 cm 40	secchi	40 cm
		20.8 cm 23.1	Long site tube	22 cm
		27.6 28.4	Turbidimeter	28 NTU
Chlorophyll	10:30 AM	0.7		
Chemical				
DO (drop kits)	10:17 AM	7 mg/L		
pH Indicator sol	10:35AM	7.6		
	10:38 AM	7.5		
	11:10 AM	7.5		
Salinity meter	10:30 AM	0.1 ppt 100 ppm	12:40 PM	0.1 ppt 100 ppm
Conductivity (ppm is = 0.64 conductivity)	12:30 PM	216 μ S \approx 138 ppm	12:40 PM - 218 μ S \approx 139.52 ppm	microsiemen/cm
Alkalinity	10:30 Am	110 mg/L 110		Average 110 mg/L
Nitrates	10:30 AM	4.8 ppm		Seems very high
Phosphate	10:30 AM	0.59 ppm		
Fish Catch- 10:30 AM	Number Caught	Species	CPUE	Seine
50 ft net X 4ft– 50 ft. pull	31	Herring	12.4 cm	3 Seines/55 total fish caught
	7	Herring-shad		Seine #1 - 35 fish
	15	Striped Bass		Seine #2 - 20 fish
	2	Shiners		
Total Catch	55	Total Diversity	4	
Tides	TIME	Water height	Rise/Fall	
	10:18AM	49 cm		
	10:24 AM	47.5 cm	Falling	1.5 cm/min
	10:30 AM	45.3 cm	Falling	2.3 cm/min

	10:36 AM	42.3 cm	Falling	3.0 cm/min
	10:42 AM	40 cm	Falling	2.3 cm/min
<i>Currents</i>	Time	Cm/60 sec	Knots	Direction
<i>Core –</i>	TIME	Rare	Common	Abundant
<i>Traffic</i>				
<i>Other Items</i>				