

**Snapshot Day 10/8/09 Data
(Salt Front RM 60.3)**

RIVER MILE 41

Steamboat Dock Park, Verplanck, Westchester

Beth Rhines, Teatown Lake Reservation

**Bob Connick, Sott Rizzo, Trisha Fuller Johnson & Liz Stevens & Mahopac High
School - Chem Honors, Regents and APES - 9th - 12th graders – 40 students**

Latitude N 41°24'.936" Longitude W 73°93'.479"



Blue Fish and a Crevalle Jack seined during A Day in the Life

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: Urban/residential 30% , Forested 10%, beach 40%, Industrial commercial 5%, Other 15%. 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

Plants in area: *Trees – Oak, Maple, Black Locust*

Vines – Wild grape

Other Plants – Burdock

Deadly nightshade

Water depth: 0.7 meters

River Bottom – sandy and rocky

Observations- Bricks on beach – 2 types. 1. Rounded edges, talked with a local who noted they had been in the river awhile. Rejects from the brick factories on the Hudson.
 2. Intact – Construction waste dumped in river. Lots of sea glass.

Parking lot – garbage, cans, storm drains, buildings, dock – impacts due to alteration of habitat – both thermal and chemical pollution.

<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	18.5°C 51 °F		
	12:17 PM	19°C		
Wind Speed	1 Beaufort	4.83 km/hr	3 knots wind from the North	
Cloud Cover	none			
Weather today	Partly cloudy, no rain			
Weather recently	A lot of wind and rain the day before			
<i>Water Surface</i>	Calm			
<i>Water Temperature</i>	11:25 AM	20°C 20°C 20°C	70°F 70°F 70°F	Water depth 2 ft.
	11:45 PM	20°C 20°C 20°C	70°F 70°F 70°F	Water depth 2 ft.
<i>Turbidity - secchi</i>				
<i>Meter</i>				
<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (drop kits)	11:35 AM	8 mg/L	18°C	85 %
	12:20 PM	9 mg/L	20°C	97%
	12:32 PM	9 mg/L	20°C	97%
pH Indicator sol	11:38 AM	8.0		
	12:05 PM	7.5		
	12:15 PM	8.5		
Salinity meter	11:25 AM	2.3 ppt		
	12:15 PM	2.0 ppt		
Conductivity		3594 mS		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i>
20 ft net X 4ft– 50 ft. pull	70	Silversides	7.5 cm	

4X6 mm openings	1	Crevalle Jack	4.5 cm	
Did a total of 10 seine runs	1	Bluefish	10.5 cm	
<i>1st seine run = 1 bluefish, 9 silversides and 1 Crevalle Jack</i>	1	Striped Bass		
Tides	TIME	Water height	Rise/Fall	
	11:10 AM	67cm		
	11:25 AM	68cm	rising	
	11:50 AM	74 cm	rising	
	12:07 PM	81 cm	rising	
	12:21 PM	84 cm	Rising	
Currents	Time	Cm/60 sec	Knots	Direction
	11:35 AM	60 cm/60sec	0.019 knots	N Flood
	11:53 AM	56 cm/60sec	0.018 knots	N Flood
Core – From 3.5 ft. of water - 40 ft. from shore	Length - 12-13.5 cm – dark slatey grey	Top 4 cm oxidized – reddish grey with red dots – brick or oxidation?	8-13 cm second layer – fine particles (clay?)	Abundant” Clay
Traffic	11:36 AM	Tugboat with barge	Brown	Southbound/Full
	12:18 PM	Corander Ferry	White	Northbound
	12:33	Sheriff	White	Northbound
Other Items	Turkey Vultures, 12 Canadian Geese, 2 Black Ducks, 10 Ringed-Bill Gulls			