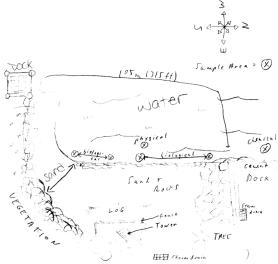
## Snapshot Day 10/7/08 Data (Salt Front RM 63.4) RIVER MILE 41

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 - 9<sup>th</sup> - 12<sup>th</sup> graders - 60 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:** Urban/residential 10%, Forested 10%, beach 70%, Industrial commercial 10%. 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, piping North

Plants in area: Trees – Honey locust

*Alianthus – tree of heaven (invasive)* 

Sycamore

Sugar Maple

Shrubs – Indian hemp

 $Vines - Fox - river\ grape$ 

Bittersweet (invasive)

Ivy (Invasive)

Non- native variegated decorative grases

Other Plants - Goldenrod

Deadly nightshade

Some type of burdock-

Spanish needles (Bidens Biginnata)

Devil's Beggar tick (Bidens Frondosa)

Water – Vallasanaria – Eel grass

Water depth: 3.5'

**River Bottom** -20 ft. out rocky then clay

ITEM	Time	Reading 1	Reading 2	Comments		
Physical						
Air Temperature	11:11 AM	12.1°C				
	12:17 PM	19°C				
Wind Speed	2 Beaufort			l		
Cloud Cover	none					
Weather today	Clear, cool					
Weather recently	10/4/08 – Hi 16°C; Low 2 °C; Precip 0.48 cm					
	10/5/08 – Hi 14°C; Low 4 °C; Precip 0.38 cm					
	10/6/08 - Hi 14°C; Low 3 °C; Precip 0.00cm					
Water	11:45 AM	22°C		average		
Temperature		25°C		23.3°C		
<b>p</b>		23°C				
	12:12 PM	22°C		Average		
		22°C		21.7°C		
		21°C				
Turbidity - secchi	11:45 AM	0.13 M	0.19 m	0.16 meters		
Meter	11:45 AM	33 NTU				
Chlorophyll						
Core	13.5 cm	7.5 cm top	6 cm bottom			
	Total	layer	layer			
	Clay rare	Mud rare	Sand common	Brick abundant		
Chemical						
DO	11:15 AM	8 mg/L	21°C	90 %		
(drop kits)						
pН	11:15 AM	8.0		Average 8.0		
Indicator sol		8.0				
		8.0				
Phosphate	11:15 AM		0.37 mg/L	0.34 mg/L		
Nitrate	11:15 AM	0.7 mg/L	0.9 mg/L	0.8 mg/L		
Alkalinity	11:15 AM	100 mg/L		110 mg/L		
		110 mg/L				
~ 1. ·	44 45 13 5	120 mg/L				
Salinity	11:45 AM	3.5 ppt		3.5 ppt average		
meter		3.4 ppt				
Einl. Cut 1	<b>A</b> 77	3.6 ppt	CDITE	C -i		
Fish Catch	Number	Species	CPUE	Seine		
20 ft not V 4ft 50	Caught	Stringd hass				
20 ft net X 4ft– 50	27	Striped bass				
ft. pull 4X6 mm openings	15	White perch				
TAO HIII OPEHHISS		•				
	91	Atlantic				

		-:1:1		
	_	silversides		
	5	Blue crab		
	3	American Eel		
	2	Grass Shrimp		
Tides	TIME	Distance water	Depth Change	
		advanced	over time w/	
		towards shore	Meter stick	
	11:20 AM	9 cm	66 cm	
	11:35 AM	19 cm		rising
	11:55 Am	66.5 cm	76 cm	rising
Currents	Cm/60 sec	Cm/sec	Knots	Direction
Slight bay in test	280	4.67 cm/sec	0.093 knots	N Flood
area	cm/60sec			
	380 cm/60	6.33 cm/sec	0.126 knots	N Flood
	sec			
Core –	Length -	Top 4 cm	8-13 cm	Abundant"
From 3.5 ft. of	12-13.5	oxidized –	second layer –	Clay
water - 40 ft. from	cm – dark	reddish grey	fine particles	
shore	slatey grey	with red dots –	(clay?)	
-		brick or		
		oxidation?		
Traffic				
Other Items				