

Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 41
Steamboat Dock Park, Verplanck, Westchester
Latitude N 41° 14'.958" Longitude W 73° 57'.876"
Beth Rhines, Teatown Lake Reservation
Bob Connick & Mahopac High School 9th - 12th graders – 40 students

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 10%, Industrial commercial 70%. 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
Plants in area: mostly washed up on shore
 Water Chestnut (*Trapa natans*) seedpods on shoreline
 Vallisneria – water celery
 Land Plants include: Black locust
 Virginia Creeper
 Poison Ivy
 Riverbank – wild grape
 Some type of burdock–
 Silverrod
 Indian Hemp
 Hedgebind weed

Water depth:
River Bottom – sandy bottom, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:55 AM	28.4°C		
Wind Speed	1-3 Beaufort	W/SW		
Cloud Cover	Partly cloudy			
Weather today	Clear & warm			
Weather recently	Cloudy and warm			
<i>Water Temperature</i>	11:39 AM	24.7°C 24.3°C 24.6°C		average 24.5°C
	12:04 PM	24.7°C 24.7°C 24.8°C		Average 24.7°C
<i>Turbidity</i>	12:30	6.4 NTU		meter
<i>Water too shallow</i>				

<i>off dock to use secchi – could see bottom</i>				
<i>Chlorophyll</i>				
<i>Core</i>	13.5 cm Total	7.5 cm top layer	6 cm bottom layer	
	Clay rare	Mud rare	Sand common	Brick abundant
<i>Chemical</i>				
DO (drop kits)	11:25 AM -12:18 PM	6.67 mg/L	24.5°C	77 %
pH Indicator sol	11:25 AM	7.7 8.0 8.0		Average 7.9
Phosphate				
Nitrate				
Alkalinity				
Salinity Drop test	11:39 AM – 12:04 PM	7.2 ppt 7.2 ppt 7.4 ppt		7.3 ppt average
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i>
20 ft net – 3 seines	12	Striped bass		
	1	Northern pipefish		
	180	Atlantic silversides		
	4	Blue crab		
	25	Comb Jelly		
<i>Tides</i>				
5.5 cm rise in 15 mins. - .37cm/min	11:50 AM	10 cm		
	12:05 PM	15.5 cm	rising	
<i>Currents</i>				
<i>Core –</i> Some brick throughout	19.5 cm	5.5 cm oxidized top – top sandy - lighter	14.0 cm second layer – fine particles (clay?)	Common: Clay Sand brick
<i>Traffic</i>				
<i>Other Items</i>				