

**Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 41**

**Steamboat Dock Park, Verplanck, Westchester
Beth Rhines, Teatown Lake Reservation
Bob Connick, Sott Rizzo, Mahopac High School - Chem Honors, Regents and
APES - 9th - 12th graders – 41 students
Latitude N 41° 14'.56" Longitude W 73° 57'.52"**



Seining – Before



Seining – After!

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 50% , beach 50%. 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, vegetation
Plants in area: eel grass, Virginia creeper, wild grape, poison ivy, tree of heaven
Water depth: 61 cm
River Bottom – sandy and rocky
Observations- Bricks, houses, rockwalls, fences, parking lot, picnic benches, fencing

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature		17.3 °C		

<i>Sampled in direct sun off the dock for chemistry</i>	<i>Sampled in small cove for biology and physical</i>			
Wind Speed		0-5 knots	Northwest	
Cloud Cover	none			
Weather today	Partly cloudy			
Weather recently	Clear, cool, light showers			
Water Surface	Calm			
Water Temperature –	10:30 AM	18.6°C		Water depth 1 ft.
	11:05 PM	18.5°C		Water depth 1 ft.
	12:15 PM	19°C		Water depth 1 ft.
Turbidity – long-site tube	10:33 AM	26.4 cm 28.2 cm 26.0 cm 26.8 cm		26.9 cm
	11:16 AM	26.8 cm 28.2 cm 26 cm 27 cm		27 cm
	12:01 PM	29.2 cm 32.8 cm 34.0 cm		32.0 cm
Chlorophyll				
Chemical				
DO (drop kits)	10:30 AM	4 mg/L (?) 8 mg/L 7 mg/L	18.5°C 18.6 18.6	41 % 82% 74%
	11:00 AM	8 mg/L 8 mg/L	18.5°C 18.5	85% 85%
	11:45 AM	7 mg/L 7 mg/L	19°C 18	75% 61%
	12:00 PM	7 mg/L	18°C	61%
pH Indicator sol	10:25 AM	7.5	11:25 Am	8.5
	11:05 AM	7.5	11:50 Am	7.5
	11:16 AM	8.5	12:03 PM	7.5
Salinity meter	11:05 AM	0.1 ppt 0.1 0.1	12:15 PM	0.1 ppt 0.1 0.1

Conductivity		231 234 235	milliseimen/cm	
NOTES	Very low compared to other years. Possible reasons – lots of rain, very low tide			
Alkalinity		120 mg/L 100 110		Average 110 mg/L
<i>Nitrates</i>		7.0 mg/L		Seems very high
<i>Phosphate</i>		0.33 ppm 0.33 ppm		
<i>Fish Catch- 11:30 AM</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i>
20 ft net X 4ft–50 ft. pull	1	White Perch		
4X6 mm openings	2	Striped Bass		
	1	Blueback Herring		
<i>Tides</i>	TIME	Water height	Rise/Fall	
	10:11 AM			
	11:40 AM	57 cm	rising	
	12:11 AM	215 cm	rising	
<i>Currents</i>	Time	Cm/60 sec	Knots	Direction
<i>Core –</i>	TIME	Rare	Common	Abundant
	12:05 PM	Clay Mud	Gravel Pebbles	Sand
<i>Traffic</i>	11:45 AM	Millenium	White	Southbound
	11:49 AM	Coast guard	Grey	Northbound
	11:02 AM	Indian Point Guard	Grey Blue	Northbound
	11:16 AM	Indian point guard	Grey/blue	Southbound
	11:28 AM	Speedboat	White	Southbound
<i>Other Items</i>	11 Ringed-Bill Gulls, 3 song birds (11:56 AM), 18 cormorants, 1 black duck, 2 mute swans and 1 dog			