

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)**

**RIVER MILE 35W – Bowline Park, Haverstraw Waterfront
Chuck Barone, Nanuet High School – 12th grade – 12 students, 2 adults
41.° 12’11” N 73.° 57’ 48” W**



Relaxing after a morning of hard work doing field science!

Location: Bowline Park, Haverstraw waterfront, Rockland County NY

Area: Parking lot, recreation, fishing

Surrounding Land Use: 15% beach, 20% Industrial/commercial, 60% recreational, 5% forested

Sampling Site: shoreline is sandy, muddy, rocky, small beach, bank altered, large rip rap, bulkhead, industrial tress spans the water to the north and east, bricks in the sand

Other Notes: The beach has a distinctive marker showing the high tide line or more commonly referred to as the ‘rack line’ where natural and man made debris line up

Plants in area: none

Water depth:

River Bottom – muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:32 am	54°F 12.2°C	10:00 AM	54°F 12.2°C
Wind Speed	9:30 AM Beaufort #2	1-3 kt 1-3 mph	Ripples no foam NE	Light air Wave height 15 cm
	12:00 PM Beaufort #3	7-10 kts 8-12 mph	White caps NW	Gentle breeze Wave height 60-90 cm
Cloud Cover	cloudy			
Weather today	Overcast	Cold	Light rain/drizzle ~ 10:00 AM	
Weather last 3 days	Clear and sunny	Observation: Warmer weather the last few days may have kept the water warmer with more DO		
<i>Water</i>	See wave height above			

Water Temp.		21°C	68°F	Average
	9:32 AM	21.0	70	69.3°F
		21.0	70	21°C
	11:00 AM	20.5°C X 3	70°F X3	Average
				70°F
				20.5°C
Turbidity – Long site tube	9:32 AM	41 cm	12:00 PM	48.2 cm
Chlorophyll	9:32 AM	0.3		
Chemical				
DO				
<i>Drop count</i>	9:32 AM	21 C	8.2 PPM	90 % sat
	11:00 AM	20.5 C	10 PPM	110 % sat
pH <i>litmus paper</i>	9:32 AM	8	12:00 PM	7
Salinity:	*NOTE – neither set of salinity measurements makes sense			
<i>Hydrometer</i>	9:37 AM			6 ppt*
	12:00 PM			1.00 ppt*
<i>Test strips</i>	9:37 AM	0		0*
	12:00 PM	.006 %	39 ppm Cl-	70 ppm TS*
Fish Catch	Time	Number Caught	Species	Length of largest
Seine 50 ft. X 6ft. Mesh 0.25 inch	9:30 AM four seines	NO FISH CAUGHT!!!		
Tides	9:32AM	150 cm		
	10:53 AM	500 cm	rising	350cm/79 min 4.43 cm/min
Currents* main channel would be flooding but this area is set back and may still be ebbing	CM/60 secs	Cm/Sec	North/South Ebb/Flood/Still	Knots
	430cm/60 sec	7.17 cm/sec	South/ebb	
9:32 AM				
10:53 AM		10 cm/sec	South/ebb	
Core –	Length	Rare	Common	Abundant
Shipping				
Observations				