

**Snapshot Day 10/14/10 Data**  
**(Salt Front RM 36)**  
**RIVER MILE 31 – Nyack Beach Hook Mountain State Park**  
**Kim Kastens, Lamont-Doherty Earth Observatory**  
**8<sup>th</sup> grade teachers –Nyack Middle School – 8<sup>th</sup> grade – 50 students**  
**41°07.5”N 73°54.5”W**

**Location:** Nyack Beach, Upper Nyack, Rockland County NY

**Area:** Park/Boat launch, near Hook Mountain Sandy Beach by the large sitting stairs,

**Surrounding Land Use:** 70% forested, 5% urban/residential, 20% beach – used for recreation & picnics

**Sampling Site:** Beach – sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris –

**Piping coming** into river south of sampling site

**Plants in area:**

**Water depth:**

**River Bottom** –sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b><i>Physical</i></b>				
Air Temperature	9:38am	64°F 16°C		
Wind Speed	9 km/hr	9 knots	9 wind meter	NW
Cloud Cover	Partly cloudy			
Weather today	No rain			
Weather last 3 days				
<b><i>Water Temperature</i></b>				
	9:30am	Depth	6 inches	15 C 59F 15 C 59F
	9:55am	Depth	6 inches	15C 59F 16C 60.8F 15 C 59F
	10:55am	Depth	6 inches	20 C 68F 20 C 68F 20 C 68F
<b><i>Turbidity</i></b>				
10:50am	5 cm	35.3 cm	30.8 cm	Avg 24 cm
10:30am	32.6 cm	34.8 cm	26.0 cm	Avg 31 cm
10:50am	5 cm	35.3 cm	38 cm	Avg 26 cm
10:50am	32.6	34.4	41	Avg 36 cm
<b><i>Chlorophyll</i></b>				
	9:56 am	0.1		
	10:30 am	0.3		
	11:00 am	0.3		
<b><i>Chemical</i></b>				

DO <i>Drop count</i>	9:35am	15C	11 PPM	105 % sat
	11:04am	19C	11 PPM	115 % sat
	11:07am	20C	11 PPM	118 % sat
pH <i>Colormetric kit</i>				
Salinity <i>meter/</i>	9:59am	430	400	ppm
	10:00am	430	410	ppm
	10:59am	460	500	ppm
	11:01am	480	480	ppm
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Macroinvert.</i></b>	
<b><i>Seine 12 ft. X 6ft. Mesh 0.25 inch</i></b>	20		Mud crabs	small
	1		sandworm	
			barnacles	
<b><i>Tides</i></b>	11:17am	47cm		
	11:22am	49cm	rising	
	11:27am	54cm	rising	
	11:32am	56cm	rising	
	11:37am	58cm	rising	
<b><i>Currents</i></b>	<b><i>CM/60 secs</i></b>	<b><i>Cm/Sec</i></b>	<b><i>North/South Ebb/Flood/Still</i></b>	<b><i>Knots</i></b>
11:17am	200cm/60s	3.33 cm/sec	F	0.06Knots
11:19am	331cm/60s	5.51 cm/sec	F	0.10Knots