

Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 31 – Hook Mountain State Park
Laurie Seeman & Joanne Dickey– Strawtown Art & Garden Studio
Lorraine Marden, Jennifer Armoceda and Natalie Harris -Blue Rock School –
4th - 8th – 25 students
40°7.18N Latitude - 73°54.76 W Longitude



Location: Nyack Beach near Hook Mountain Sandy Beach right side of riverfront area
Area: Park/Boat launch, sandy beach area on the point with riprap
Surrounding Land Use: 100% beach
Sampling Site: Sandy beach – with a lot of trees, picnic tables, sandy and rocky at edges, covered with vegetation beyond the beach, stone wall, riprap shore, collected wood debris –not many houses.
Piping coming into river south of sampling site
Plants in water: 1% water celery
Plants in area: Japanese Knotweed 50%; Sumac
Water depth: 36 inches
River Bottom –rocky
Student site description: I see lots of trees. I see some evergreens and willows. Its pretty rocky and sandy on the beach, and the water is pretty rough. The water is murky and you can't see through it. I think this place is used for fun! Wavy water.

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:22 AM	12.8°C 55.2°F		
	1:15 PM	14.46°C 58°F		
Wind Speed	Beaufort 2-5		N	
Cloud Cover	Mostly cloudy			
Weather today	It started cloudy and clouds increased during the day			
Weather last 3	Rain on Monday (1.2 inches); Tuesday 64° and sunny;			

Weather last 3 days	Rain on Monday (1.2 inches); Tuesday 64° and sunny; Wednesday 59° and Sunny.			
Water	Choppy - wavy			
Water Temperature	10:20 AM	63°F 17.23°C	64.4°F 18°C	63.7°F 17.62°C
	11:13 AM	68°F 20°C	64.4°F 18°C	66.2°F 19°C
	12:00 PM	65°F 18.3°C	68°F 20°C	66.5°F 19.15°C
	1:10 PM	64°F 18°C	64°F 18°C	64°F 18°C
Turbidity	10:25 AM	0		
	11:20 AM	40 JTU		
	12:00 PM	40 JTU		
Chlorophyll	11:20 AM	1.0	12:20 PM	0.3
Chemical				
DO <i>Drop count</i>	11:20 AM	4 mg/L	18 ° C	50%
pH <i>Indicator solution</i>	10:20 AM	8.0 8.0 8.0		Average 8.0
<i>Phosphate</i>				
<i>Nitrates</i>				
Salinity <i>Test strip</i>	10:45 AM	302 ppm chloride	377.5 ppm	0.3775 ppt
Fish Catch	Seine #	Number Caught	Species	Length of largest
Seine 12 ft. X 6ft. Mesh 0.25 inch	#1	3	* Rainbow Smelt	2.5 inch
		2	Crab	
	#2	5	Silverside	2 inch
		4	Crab	
	#3	1	Shiner	2.5 inch
<i>*while not impossible this would be an unusual catch – perhaps Silverside</i>		3	* Rainbow Smelt	5.5 inch
	#4	4	Silverside	3 inch
	#5	5	Silverside	3 inch
Tides	10:18 AM	27 cm		
Low tide here was ~ 10:30 AM	11:05 AM	35 cm	rising	

	12:30PM	60 cm	rising	
<i>Currents*</i>	<i>CM/60 secs</i>	<i>Cm/Sec</i>	<i>North/South Ebb/Flood/Still</i>	<i>Knots</i>
<i>10:20 AM</i>	0 cm	0	South (Still)	0
<i>11:15 AM</i>	282 cm	4.7	North (Flood)	0.08 kts
<i>11:55 AM</i>	38	0.6	North (Flood)	0.01
<i>1:10 PM</i>	450	7.5	North (Flood)	0.145
<i>Turbidity Short site tube</i>	10:45 Am	40 JTU	40 JTU	Average 40 JTU
<i>Core Description</i>				
<i>Shipping Traffic</i>	12:30 PM	Dredge	Blue	Southbound
	12:40 PM	RIverkeeper		Northbound
	1:30 PM	Cruise	White	Southbound
<i>Other Observations</i>	There are not a lot of people. We did find some blue jay feathers on the shore.			
<i>*Currents note</i> – group noted that closer to shore current went north, farther out it went south! (looking at the sample time the tide was just starting to turn which could account for this difference)				