

**Snapshot Day 10/12/09 Data
(Salt Front RM 52.5)
RIVER MILE 7
79th Street Boat Basin**



**The School in the Forest @ Black Rock Forest
Judy Gutierrez & Wendy Aponte PS/IS 311 4th grade**

Location: 79th street boat basin.

Area: On docks

Surrounding Land Use: Forested 5% ; Industrial/Commercial 10%; Park 85%

Sampling Site: Shoreline stone and cement

Plants in area: None

Water depth: 15 ft. measured form dock about 50 ft. from shore

River Bottom –unable to determine

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	noon	20° C 68° F		
Wind Speed	2-5 mph	Light air		
Cloud Cover	Overcast in AM to clearing by mid afternoon			
Weather yesterday	Rainy, calm wavelets to surface ripples			
<i>Water Temperature</i>	noon	20° C		
<i>Turbidity</i>	noon	3 ft.	91.4 cm	secchi

<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (drop count kit)	10:52 AM	10 mg/L	Temp. 20° C	110% saturated
	11:15 AM	12 mg/L		130% saturated
	11:25 AM	11 mg/L		120% saturated
	1:25 PM	12 mg/L		130% saturated
pH	12:40	7.5	7.6	Digital probe
Phosphate	n/a			
Nitrate	n/a			
Alkalinity	n/a			
Salinity	10:52 AM	8.0 ppt	1:25 PM	8.3 ppt
	1.013 density	@ 68°F		hydrometer
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>		<i>Minnow traps</i>
	1	Fish too small to ID		
<i>Tides</i>	8:30	36 inches out of water		Tides rose at least 40 inches during sampling time
	10 AM	10 inches out of water		
	11:30 AM	.5 inches out of water		
	12:30 PM	2 inches below water		
	1:30 PM	Further below water		
<i>Currents</i>	11:18 Am	45 seconds	Flood (north bound)	Students timed the stick as it traveled 50 feet along the front of the dock.
	11:22	50 seconds		
	11:23	50 seconds		
	11:44	60 seconds		
	11:47	70 seconds		
	12:50 PM	80 seconds		
	12:55 PM	90 seconds		
<i>Traffic</i>				

Comments from Students:

Question #1 What are the uses of the Hudson River? Most popular answers:

- homes for fish
- for people to travel from New York to New Jersey
- for adventures
- boating
- food for animals (birds)
- fishing
- swimming

- for people to live on houseboats
- for experimenting
- transportation
- walking aside the river
- for beauty (makes city beautiful)
- to learn about it
- for water life (sea animals)
- to catch crabs
- keep boats there (like a parking lot for boats)
- for shipping (goods, materials, garbage, food, liquids)

Question #2 What do you observe in general? (about the river, what's happening)
 Most popular answers:

- It's cold, therefore the water is probably cold too
- the wind makes the waves go on that direction (north)
- theres garbage in the river
- there are canadian geese (going back to Canada)
- there is pollution in the water
- people boating
- men in a paddle boat
- houses on the edge of the river on the other side
- boats
- houseboats
- little waves and bigger waves
- big ships passing by
- ducks and birds flying around
- the temperature affects the water temperature
- leaves from the trees fall into the river