

**Snapshot Day 10/12/06 Data
(Salt Front RM 52.5)
RIVER MILE 14
Inwood Hill Park**



Latitude 40°50'N/ Longitude 73°55'W

New York City Park Rangers

Susan Vincent and the Young Women's Leadership School – 12th grade

Location: In the cove of Inwood Hill Park

Area: Forested

Surrounding Land Use: Forested 80%, Urban residential 10%, Industrial Commercial 5%, Other 5% . Forested and used by people for picnics, park use, walking dogs, kids playing soccer. It's like a public park.

Sampling Site: It is a salt marsh. Under 5 ft. the bottom is muddy, area covered with vegetation, banks altered, large riprap on shoreline, collected wood/debris in area

Plants in area: The plants are growing in and on the water. They cover less than half the area. Kate the ranger says the vegetation doesn't grow here naturally. All the plants at the park sampling area are exotic.

Water depth: 5 feet where seining; 3 feet where minnow pots deployed

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	6:00 AM	20°C 65 °F	3:00 PM	27°C 71 °F
Wind Speed	2 knots	East		
Cloud Cover	Partly cloudy			
Weather today	No rain but drizzly and cloudy, cooler			
Weather recently	Mon & Tues hot and sunny, yesterday (Wed) rain, wind and cold			

Water Temperature	11:32 AM	66.38°F 19.1 °C		YSI meter
	11:38 AM	66.38°F 19.1 °C		
	11:59 AM	68.54°F 20.3 °C		
Turbidity (Site tube)	12:06 PM	53.2 inches/ 135.13 cm	55 inches/ 139.7 cm	56.4 inches/ 143.26 cm
Chlorophyll	11:42	Didn't match	Filtered 120cc	
Sediment Core description	Clay abundant	Mud common	Wood common	Macro's rare
	Roots in core	6 inches long	No real layers – just patches of dark	Surprised to see no odor – not organic decomposition
Chemical				
DO (drop count kit)	11:38 AM	9.5 mg/L	Temp. 20.3° C	94% saturated
pH	1:02 PM	7.8	8.0	Indicator sol.
Phosphate				
Nitrate		10 ppm and below		
Alkalinity				
Salinity	11:32 AM	11:04	9.8 ppt	YSI meter
			10 ppt	
			10 ppt	
Fish Catch	Number Caught	Species	CPUE	Seine & Minnow traps
Used seine 20 ft. X 30 ft. & minnow traps	1	Atlantic Silversides		Seine 1 caught 1 fish
Seined	2 1	Comb jellies White perch		Seine 2 caught 1 fish, 2 comb jellies
Minnow traps & entry to cove	0			
Minnow trap by the dock	227	mummichogs		365 total mummichogs
Minnow trap in front of Nature Center	138	mummichogs		
Tides	11:34 AM	5 cm	Flood/rising	
	11:49 AM	20 cm	Flood/rising	
	12:04 PM	35 cm	Flood/rising	

	12:19 PM	30 cm*	Flood/rising	* Possibly a wave influenced this reading
	12:34 PM	33 cm	Flood/rising	
	12:49 PM	39 cm	Flood/rising	
	1:04 PM	43 cm	Flood/rising	
	1:19 PM	48 cm	Flood/rising	
	1:34 PM	53 cm	Flood/rising	
Currents	40 cm/ 60 secs	.666 cm/sec	North/flood	0.8 knots
	120 cm/60 secs	2 cm/sec	North/flood	2.4 knots
	160 cm/60 sec	2.6 cm/sec	North/flood	3.2 knots
	183 cm/60 sec	3.05 cm/sec	North/flood	3.66 knots
	190 cm/60 sec	3.16 cm/sec	North/flood	3.8 knots
Nature Center is located on a peninsula where the Harlem River meets the Hudson River. Currents can move very swiftly in this area.				
Traffic	12:23 PM	Circle Line Boat	Northbound	Loaded with passengers
Other observations	<p>Lots of ducks and geese around.</p> <p>Train Station nearby (Metro North) with train passing every hr.</p> <p>Lots of grass and plants still out even with weather starting to change.</p> <p>Little fish seen around rocks hiding or looking for food.</p>			