

Snapshot Day 10/14/10
(Salt Front RM 36.0)
RIVER MILE 2
Chris Anderson - The River Project
Bob Wallace - NYU
Karen Johnson, Dora Kong, Kim Esther, Jane O'Donnell
3rd grade Trevor Day School – 60 students
Latitude N 40° 43' 42.95 N Longitude 74° 00' 53.35 W

Location: Pier 40 Hudson River (also called North River)

Area: Large pier with many facilities: athletic fields, kayaking and boathouse, seasonal moorings available, parking, fishing on the pier, benches & picnic tables for the public

Surrounding Land Use: urban/residential 100%

Sampling Site: Banks altered; concrete & wood pilings

Plants in area: None visible

Water depth:

River Bottom – muddy

NOTE:

This highly urban site is just west of the busy Westside Highway – it is the largest pier in Hudson River Park (with a 14 acre footprint); Pier 40 is used for recreation; school groups use the athletic fields; there are 3 public boathouses; there are many people by on the river's edge: jogging, bike riding, walking; River Project's temporary home is on Pier 40.

(Measurements were taken from 10:45 AM to 11:45 AM, average given when possible)

<i>ITEM</i>	<i>Time</i>	<i>Reading F</i>	<i>Reading C</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:45-11:45 AM	63.3 °F	17.4 °C	Average –
Wind Speed	<i>Time</i>	<i>Beaufort Chart</i>	<i>Kestral Meter</i>	
	10:45-11:45	#2	7.75 mph	
Cloud Cover	10:30-noon - Partly cloudy to rapidly increasing clouds			
Weather today	partly cloudy			
Weather recently	Heavy rain the night of Oct 11 into the morning of October 12			
Water	9:30 AM calm – gets choppy over the next 2 hours			
<i>Water Temperature</i> - We were in the direct sun at the end of a long pier	10:45 AM	15°C	60 °F	Average
	11:02	15	60	15.5°C
	11:13	20	70	
	11:26	13	57	
	11:35	15	60	
	11:44	15	60	
<i>Turbidity (long site tube)</i>	10:30-11:20 AM	45 cm		Average 47 cm
		48.6		

		44.8 50.4 44.3 49		
<i>Chlorophyll</i>				
<i>Chemical</i>	TIME	TEMP.	PPM	% SAT.
DO (drop count kit)	10:45 AM 11:02 11:13 11:26 11:35 11:44	15°C 15 20 13 15 15	4 PPM 4 PPM 6PPM 4 PPM 4 PPM 5PPM	38 38 64 36 38 48
pH – color match	10:48- 11:48 AM	7.5 7.5 7 7 8		Average 7.35
Salinity – hydrometer - 10:48-11:48 AM	DENSITY 1.006 1.008 1.008 1.008 1.006 1.007	TEMP. 15 15 20 13 15 15	SALINITY 7.6 ppt 10.2 ppt 11.4 ppt 9.3 ppt 7.6 ppt 8.9 ppt	AVERAGE 9.17 ppt
Turbidity: NOTE: The water was a murky brownish greenish color; We could see the white water sampling device when it was about 2-3 feet below the surface	11:15 to 11:25 AM	69cm 69 cm 76 cm 87 cm	75.25 <i>average</i>	Long site tube
<i>Vertebrate Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size</i>	<i>Minnow traps</i>
11:00 AM	3	Oyster Toadfish	~7 cm	
	1	Naked Goby	3.5 cm	
	1	Pipefish	10 cm	
<i>Invertebrate Catch</i>				
11:00 AM	10	Mud snail		
	4	Grass Shrimp	~4 cm	

	Countless	Isopods & amphipods		
<i>Tides</i>				
<i>Currents</i>				
<i>Boat Traffic</i>	11:20 AM	Robert Fulton	Tour boat	Northbound
	11:25 AM	Tug pushing a huge reddish barge (label RT C 60)	Looked to be riding very high but was moving VERY slowly	Northbound
	11:40 AM	Zephyr	Tour boat	Northbound
<i>Lots more boats unable to ID</i>				
Hudson River Park, along the Westside of Manhattan & on the riverbank of the Hudson is a very busy place – constantly in use by the public for walking, jogging, biking, skating, etc				