

**Snapshot Day 10/8/09
(Salt Front RM 60.3)**

RIVER MILE 2

**J. T. Boehm, Chris Anderson, Nina Zain,- The River Project
Karen Johnson & 3rd grade teachers - Trevor Day School – 58 students
Latitude N 40°43.267 Longitude W074°00.784
UTM E 583352 N4508267**

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

Area: large urban pier surrounding water access – 400 feet of waterfront, fenced sidewalks along river, cement bulkhead

Surrounding Land Use: urban/residential 100%

Sampling Site: Banks altered; concrete & wood pilings

Plants in area: None

Water depth: 15 ft.

River Bottom – muddy

(Measurements were taken from 10:30 AM to 11:30 AM, average given when possible)

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:30-11:20	42.4 °F 59.3 59.5 59.1 59.1 59.7		Average – 56.5 °F or 13.6°C (If excluding 42.4) 59.3°F or 15.2°C
Wind Speed	<i>Time</i>	<i>Beaufort Chart</i>	<i>Kestral Meter</i>	
	10:33	Fresh breeze	8.5 mph	
	10:39	Strong breeze	18.5 mph	Strong gusting winds
	10:48	Strong breeze	17.3 mph	
	10:57	Strong breeze	20.6 mph	
	11:09	Fresh breeze	8.2 mph	
	11:19	Near gale	21 mph	
Cloud Cover	Partly cloudy			
Weather today	Sunny, partly cloudy, chilly, windy, cold			
Weather recently	Sunny, windy, rainy			
Water	Slightly choppy, some wave small crests			

Water Temperature	10:30-11:20 AM	17°C 15 16 17 16 15	64 °F 61 65 60 60 62	Average 16°C Or 62 °F
Turbidity (long site tube)	10:30-11:20 AM	45 cm 48.6 44.8 50.4 44.3 49		Average 47 cm
Chlorophyll				
Chemical				
DO (drop count kit)	10:30-11:20 AM	6.8 ppm		6.8 ppm
pH	10:30-11:20 AM	7 6.5 7 6.5 6.5 7		Average 6.75
Salinity – 3 hydrometers	10:30-11:20 AM	RANGE 14-23 ppt 16-20 14-19 13-16 12-22 14-20	MEDIAN 18 ppt 18 ppt 16.5 ppt 14.5 ppt 16.5 ppt 17 ppt	AVERAGE 16.75 ppt
Turbidity	11:21 to 12:16	87.5 cm		(Sechi Disk – tube- 86.8cm, 85, 88, 83, 88.2 and 94cm)
Vertebrate Catch	Number Caught	Species	Size	Minnow traps
11:00 AM	2	Black Sea Bass	7 cm, 3.5 cm	
	2	Pipefish	9 cm, 12 cm	
	1	Toadfish	20 cm	
Invertebrate Catch				Definition
11:00 AM	1	Bluecrab male	9pp 20cc	pp = point to point – left point to right

				point on carapace
	1	Bluecrab female	6.5pp 12.5cc	Cc = claw tip to claw tip when spread out (wingspan)
<i>Tides</i>				
<i>Currents</i>				
<i>Boat Traffic</i>	10:30	Coast guard	downriver	
	10:32	passenger ferry	downriver	
	10:33	Small passenger ferry	downriver	
	10:35	passenger ferry	upriver	
	10:40	sailboat	Across river	
	10:41	Coast guard	Upriver	
	10:45	ferry	Upriver	
	10:47	cargo	upriver	
	10:50	sailboat	upriver	
	10:52	Coast guard	downriver	
	10:53	passenger ferry	downriver	
	10:55	Small cruise ship	upriver	
	10:58	Tug boat	upriver	
	11:01	cruiser	downriver	
	11:05	sailboat	downriver	
	11:06	Tug boat	downriver	
	11:07	Small cruise ship	downriver	
	11:10	Passenger boat	upriver	
	11:11	Circle Line Boat	downriver	
	11:13	Small Tug boat	downriver	
	11:14	Motor boat	downriver	

	11:15	Ferry boat Speed boat	Across river downriver	
	11:17	Sailboat	upriver	
	11:18	Ferry boat	Across river	
	11:19	Tour boat	Downriver	
	11:20	Speed boat	Upriver	
	11:21	Small cruise ship Cargo boat Sightseeing boat	Downriver Downriver Downriver	
	11:23	Ferry boat	downriver	
	11:24	Sailboat, Ferry boat Ferry Speed boat	Downriver Upriver Upriver	
	11:26	Small cruise ship	downriver	
	11:28	Houseboat Tug boat	Upriver Upriver	
	11:29	Speed boat	downriver	
	11:30	Tug boat	Upriver	
	11:31	Sailboat	Upriver	