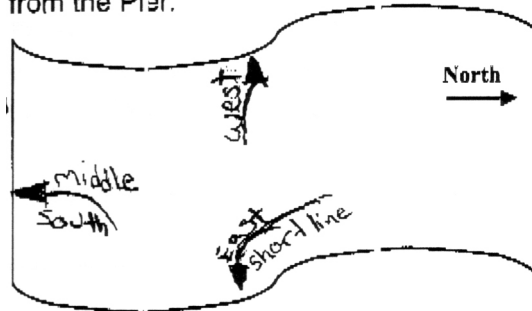


**Snapshot Day 10/8/09
(Salt Front RM 60.3)
RIVER MILE 4.1**

**Shay Saleem – Intrepid Sea, Air and Space Museum
Amy Withers, PS/IS 311– 5th grade, 50 students
Latitude N 40°45.9 Longitude W074°00.1**

Observations

Is the water that is flowing in the middle of the river flowing in the same direction as the water flowing along the banks (sides)? Use arrows to label the observed river flow from the Pier.



Location: The Intrepid next to Pier 84

Area: large ship at pier surrounding water access

Surrounding Land Use: 100% former industrial usage converted to public access programs (education, boating, recreation)

Sampling Site: Pier, Bulkhead (wood timbers), banks altered

Plants in area: None

Water depth: 4 meters estimated depth

River Bottom –muddy, sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:54 AM	18°C		
	11:44 AM	19°C		
Wind Speed	Beaufort 2-3	20 mph	WE to West wind	
Cloud Cover	Partly cloudy			
Weather today	Dry			
Weather recently	Sunny and windy			
<i>Water surface</i>	choppy			
<i>Water Temperature</i>	Noon	24°C		
<i>Turbidity</i>				

<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (ampules)	11:15 AM	25 °C 25 °C 25 °C	4 mg/L 4 mg/L 4 mg/L	47% saturation
	12:00 noon	24 °C 24 °C	4 mg/L 4 mg/L	48% saturation
pH – Lamotte colormetric	11:00 AM	7.0 8.0 8.0		Average 7.9
	11:50 AM	7.0 7.0 7.0		
Nitrate (color reaction)	11:00 AM	5.0 ppm 5.0 ppm		
	11:50 AM	5.0 ppm 0 ppm		
Phosphate (color reaction)	11:00 AM	1 ppm 1ppm 1ppm		
	11:50 AM	1 ppm 2 ppm		
Salinity (Hydrometer)	11:41 AM avg. 16.6	17 ppt 16 ppt 16 ppt	15 ppt 15 ppt 16 ppt	23 ppt 14 ppt 17ppt
	12:00 AM avg. 18 ppt	18 ppt 16 ppt 19 ppt	18 ppt 16 ppt 20 ppt	18 ppt 16 ppt 20ppt.
<i>Tides</i>				
<i>Currents</i>				
<i>Boats</i>	10:46 AM	Circle Line white/green/red	Southbound	Empty
	10:47 AM	Waterways Blue, white	Northbound	Full
	10:48 Am	NYC Duck, blue/brown	Southbound	Full
	11:33 AM	NY Waterway/blue brown	Northbound	Full
	11:35 AM	NY water Duck/blue brown	Northbound	Full

	11:36 AM	Barge Red/black	Southbound	Full
<i>Other Observations</i>	Helicopters	Airplanes	Seagulls	Statue of Liberty