

**Snapshot Day 10/4/12 Data
RIVER MILE 4.1**

Shay Saleem – Intrepid Sea, Air and Space Museum

Julie Soriano, Amistad Dual Language School PS/MS 311, 6th grade, 45 students, 4 adults

Latitude N 40°76 Longitude W074°00

Location: The Intrepid next to Pier 84

Area: large ship at pier surrounding water access

Surrounding Land Use: 38% urban/residential, 2% forested, 40% industrial commercial

Sampling Site: Pier, Bulkhead (wood timbers), used for boating, banks altered, covered in vegetation

Plants in area: None

Water depth: 20 ft.

River Bottom –muddy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	11:33 AM	72 °F 29 °C		
	12:20 PM	60 °F 16 °C		
Wind Speed	Beaufort 1	5 kts		
Cloud Cover	Cloudy			
Weather today	Wet			
Weather recently	Rainy, damp			
<i>Water surface</i>	calm			
<i>Water Temperature</i>				
<i>Turbidity</i>				
<i>Chlorophyll</i>				
<i>Chemical</i>				
DO	11:29 AM	4 ppm		Avg. 4 ppm
Color reaction	11:33 AM	4 ppm		
	11:36 AM	4ppm		
	11:35 AM	4 ppm		Avg. 4 ppm
	11:41 AM	4 pm		
	11:45 AM	4 ppm		
pH – Lamotte colormetric	11:25 AM	7.0 7.0 Avg 7.0 7.0	11:29 AM	7.0 7.0 Avg 7.0 7.0
	11:38 AM	7		
	11:42 AM	7 .0		

	11:45 AM	7.0 AVG 7.3 8		
Nitrate (color reaction) – (Note: very low resolution test with large sample steps)	11:28 AM	5 ppm		Average 15 ppm
	11:41 AM	20 ppm		
	11:46 AM	20 ppm		
	11:39 AM	0 ppm		Avg. 3.33 ppm
	11:41 AM	5 ppm		
	11:43 AM	5 ppm		
	11:40 AM	20 ppm		Avg. 20 ppm
	11:42 AM	20 ppm		
	11:44 AM	20 ppm		
Phosphate (color reaction)	11:29 AM	1 ppm	11:40 AM	1 ppm
	11:31 AM	2 Avg. 2.33	11:42	2 Avg. 1.67
	11:33 AM	2	11:47	2
	11:41 AM	1 ppm		Avg. 1.3 ppm
	11:43 AM	1 ppm		
	11:46 AM	2 ppm		
Salinity (Hydrometer)	11:05 AM	16 ppt 12 ppt 14 ppt		Avg. 14 ppt
	11:29 AM	16 ppt 12 ppt 14 ppt		
Students note salinity finds water brackish, the pH is balanced, DO is not healthy (too low) and nitrate and phosphates are too high.				
<i>Boats</i>				
11:25 AM	Barge -	Rust brown	southbound	full
11:25 AM	NY waterway	White/Blue	Southbound	full
11:27 AM	NYPD	Blue, white, yellow	Southbound	Full
11:27 AM	Beast	green		Full
<i>Other Observations</i>	Butterfly (south)	Bird (north)		