

Day in the Life of the Hudson River 10/13/22

Bush Terminal Park, Brooklyn

RIVER MILE: -3.7

Salt Front: ~ 76

Sunset Park High School– Katie McCarthy

Billion Oyster Program - Shinara Sunderail, Briana Leddy, Emily Liang

51 students & 15 adults

Latitude 40.654525 N & Longitude – 74.018978 W



Location: Bush Terminal Park, New York Harbor

Area: Old industrial waterfront area surrounding a small marshy bay with a rocky shoreline, by the water, with grassy hills in Bush Terminal Park.

Surrounding Land Use: 80% Abandoned Industrial, 20% reestablishing park use

Sampling Site: RipRap/rocky shoreline

Shoreline: 50% concrete/asphalt; 20% dirt/gravel; 30% grass/trees

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature-</i>	9:47 AM 11:50 AM	23°C 20.2°C 19.9°C 19.4°C	73.4°F 68.4°F 67.8°F 67°F	
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 5.5 mph w/ 14 mph gusts	<i>Beaufort</i> NR	<i>Direction</i> SW
<i>Weather today</i>	10:50 AM	>75% cloud cover	No Rain	
<i>Weather the past 3 days:</i>	No Rain last 3 days, very windy			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Water Height (cm)</i>	
	NR	Rising	NR	HT: 11:17 AM LT: 5:51 PM
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Still</i>
	9:47 AM	NR	NR	NR Still
<i>Water Temperature-</i>	11:35 AM 12:37 PM	15°C 15°C 18°C	60°F 60°F 64.4°F	
<i>Turbidity- Long Sight Tube (120 cm)</i>	11:40 AM 11:50 AM	100 cm 103 cm		
Chemical				
<i>Salinity-Refractometer</i>	9:47 AM 11:00 AM	23 ppt 23 ppt 20 ppt		

Standardized Salinity – Refractometer	11:15 AM	26,000 ppm			
DO – Chemets Kit	<i>Time</i> 11:28 AM 11:30 AM 12:40 PM	<i>Temp</i> 18°C 15°C 18°C	<i>ppm DO</i> 6 ppm 4 ppm 5.75 ppm	<i>% saturation</i> NR	
pH – Color Match Kit	11:44 AM 11:45 AM 12:45 PM	8 7 8 7 7.5 7.5 8			
Nitrates-	10:22 AM 11:56 AM	1.0 ppm 1.0 ppm			
Phosphates- NR					
Alkalinity- NR					
Biological					
Fish – Seine	Number	Name	Length of longest	Length of smallest	
10:00 AM-11:00 AM	2 5	Striped Bass Atlantic Silverside	8 cm 5 cm	5 cm	
Fish Totals	TOTAL: 7	Diversity: 2			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	1 1 2	Blue Crab (M) Blue Mussel Mud crab	8 cm 1.1 cm 5 cm		
Macroinvertebrate Totals	TOTAL: 4	Diversity:3			
Sediment Core - N/A					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR					
Boats					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	9:59 AM- 2 boats	Public Transport	White and Blue	Northbound & Southbound	NR
		Public Transport	White and Blue	Northbound	NR
	10:01 AM	Ferry	Blue and White	NR	NR
	10:02 AM	Cargo Ship	Black	NR	Loaded
	10:10 AM	NR			
	10:37 AM	Cargo Ship	Yellow	Northbound	NR
	10:40 AM	Cargo Ship	Red	Northbound	NR
	10:42 AM	Sightseeing Boat			
			White	Southbound	NR
Recreational	9:55 AM	NR	Red	Northbound	NR
	10:03 AM	Fishing Boat	Red w/ pink	Northbound	

	10:12 AM	Yacht	M		NR
	10:15 AM		White	NR	NR
	10:36 AM	Staten Island Yacht	Orange and Black	NR	NR
		Speedboat	Yellow	Northbound	NR