

Day in the Life of the Hudson River 10/05/2023
Ferry Point Park, Bronx, NY
EAST RIVER MILE: 13.5
Salt Front: ~RM 52
KIPP Academy-Fatima Wilson
NYSDEC HREP- Sarah Mount & Madeline McDonald
90 students, 4th grade, 15 adults
Latitude 40.804873°N & Longitude -73.832189°W



Location: Ferry Point Park Beach, Bronx, NY
Surrounding Land Use: Beach & Park
Sampling Site: Sandy beach, tidal marsh area covered with dense spartina
Shoreline: 50% Sandy & 50% Rocky
Water: NR
River Bottom: Sandy & Rocky
Plants in the water: 55% Phragmites Australis, 30% sea lettuce, 15% algae
 *NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	10:13 AM	27°C	80.6°F	
	10:44 AM	25°C	77°F	
	11:13 AM	29°C	84.2°F	
	11:40 AM	30°C	86°F	
<i>Wind Speed:</i>	10:13 AM	<i>Anemometer</i>	<i>Beaufort</i>	<i>Direction</i>
		0.5 m/s	0	Southwest
	10:44 AM	0.64 m/s	0	Southwest
		0.8 m/s	1	Southwest
		1.8 m/s		Southeast
11:40 AM	0.06 m/s		Southeast	
<i>Weather today</i>	11:13 AM		No Rain	
<i>Weather the past 3 days: NR</i>				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	
	10:13 AM	Falling	6 cm	
	10:44 AM	Falling	3 cm	
	11:13 AM	Falling	2.5 cm	

	11:40 AM 12:06 PM	Rising Rising	5 cm 19 cm			
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack	
	11:13 AM 11:40 AM 12:06 PM	0 0 0			Slack Slack Slack	
Water Temperature-	10:18 AM 10:40 AM 11:12 AM 11:37 AM	22°C 22°C 22°C 22°C	71.61°C 71.61°C 71.61°C 71.61°C			
Turbidity- Long Sight Tube (120 cm)	10:10 AM 11:05 AM	13 cm 9 cm				
Chemical						
Standardized Salinity- Refractometer	1:36 PM	25,000 ppm		25 ppt		
Student Salinity- Hydrometer	10:18 AM 10:40 AM 11:12 AM 11:37 AM	23,000 pm 23,000 ppm 24,000 ppm 26,000 ppm	23 ppt 23 ppt 24 ppt 26 ppt			
DO – Hach Drop Count Kit	Time	Temp		ppm DO	% saturation	
	10:18 AM 10:40 AM 11:12 AM 11:37 AM	22°C 22°C 22°C 22°C		9 ppm 8 ppm 9 ppm 7 ppm	95% 75% 90% 60%	
pH – Color Match Kit	10:40 AM 11:12 AM 11:37 AM	7 7.2 7.5				
Biological						
Fish- Seine (4 Hauls)	Number	Name		Length of longest	Notes	
9:50 AM-11:30 AM	4 1	Mummichog Winter Flounder				
Fish Totals	TOTAL: 5	Diversity: 2				
Macroinvertebrates	Number	Name		Length of longest		
	47 2 3 2	Palaemonetes Shrimp Snail spp. Hermit Crab Blue Crab				
Macroinvertebrate Totals	TOTAL: 54	Diversity: 4				
Sediment Core	Time	Oxid Top	H₂S Smell	Oil	Grain Size	Other Features
	4 cm	10:10 AM	No	Yes	No	Abundant: Mud, Sand, Gravel, Pebbles
	4 cm	10:40 AM	No	No	No	Present: Mud, Sand, Gravel
		11:05 AM				Present: Mud, Sand, Gravel, Pebbles
		11:38 AM				Present: Mud, Sand, Gravel
						Present: Shells

Boats-NR

Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/ Loaded