

**Day in the Life of the Hudson River 10/16/18 Data  
RIVERFRONT PARK, DOBBS FERRY**

**RIVER MILE: 23**

*Salt Front: ~RM 24*

**EF Academy- Steve Fleming**

**180 students, 11th grade, 10 adults**

**Latitude 41.01516 N & Longitude – 73.879988 W**



**Location:** Dobbs Ferry Waterfront Park, Westchester County, NY

**Area:** Waterfront park, parking lot

**Surrounding Land Use:** beach, parkland

**Sampling Site:** small beach, riprap, concrete bulkhead, area covered with vegetation

**Shoreline:** sandy

**River Bottom:** muddy

**Water:** choppy, shallow

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature:</i>	10:13 AM	8 °C	46.4 °F	
	10:23 AM	8 °C	46.4 °F	
	2:15 PM	12 °C	53.6 °F	
<i>Wind Speed:</i>	2:10 PM	4-6 knots	North/Northwest	
<i>Weather Today:</i>	Partly cloudy (50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	NA	16.6 °C	61.88 °F	
	NA	14 °C	57.2 °F	
	NA	20 °C	68 °F	
	NA	16 °C	60.8 °F	
<i>Turbidity- long sight tube</i>	10:15 AM	11.6 cm		
	1:52 PM	4.30 cm		
	2:13 PM	12.50 cm		
	2:27 PM	18.17 cm		
<i>Chemical</i>				
<i>Salinity- refractometer</i>	NA	2 ppt		
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	2:29 PM	18 °C	3 ppm	30%
	2:45 PM	20 °C	3 ppm	30%

<i>pH - test strips</i>	NA	6.8			
	NA	6.1			
	2:29 PM	6			
	2:50 PM	6			
	NA	6.2			
<i>Nitrate- color match test kit</i>	2:30 PM	1 ppm			
	2:50 PM	1 ppm			
		3 ppm			
<b>Biological</b>					
<b><i>Fish – seine</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>		
	7	White perch	12 cm		
	9	Striped Killifish	3 cm		
	3	America Eel	25 cm		
	12	Striped Bass			
	35	Atlantic Silversides	5 cm		
	1	Mummichog			
<b>TOTAL: 67</b>	<b>DIVERSITY: 6</b>				
<b><i>Macroinvertebrates- Seine</i></b>	<b><i>Number</i></b>	<b><i>Name</i></b>	<b><i>Length of longest</i></b>		
	3	Shrimp			
	12	Blue Crab			
	<b>TOTAL: 15</b>	<b>DIVERSITY: 2</b>			
<b><i>Tides</i></b>	<b><i>Time</i></b>	<b><i>Rising, Falling, Still</i></b>	<b><i>Height (cm)</i></b>	<b><i>Rate of Tidal Change (cm/min)</i></b>	Measure from Dock to water
	10:40 AM	Rising	10	-	
	1:52 PM	Rising	60	0.26	
	2:08 PM	Rising	85	0.5	
	2:41 PM	Still	84	0.03	
<b><i>Sediment Core</i></b>	<b><i>Water depth</i></b>	<b><i>Length</i></b>	<b><i>Oxid Top</i></b>	<b><i>Grain Size</i></b>	<b><i>Other</i></b>
11:30 AM		10 cm	Yes	<i>Abundant:</i> sand, gravel <i>Common:</i> mud, pebbles <i>Rare:</i> clay	<i>Common:</i> brick shells, macroinvertebrates, slag
<b><i>Other Observations</i></b>	Many Bricks, coal, glass, crab shells, rock, sand, driftwood, water chestnuts, crab, fish, birds, gulls, geese, squirrels, and butterflies. Bowline powerpoint, Indian point, old brickyard industry, tilcon, coal transport and use, and local industry pollution all could have an impact on data.				