

Snapshot Day 10/20/15 Data
RIVER MILE 25E
Matthiessen Park, Irvington
Philip Levine- Irvington Middle School
145 students, 6th Grade, 20 adults
supported by *Joanna Morabito- Irvington High School AP Env. Sci.
20 students, 11/12th graders
Latitude 41° 2' 30" N Longitude 73° 52' 32" W
***High School Data Recorded and posted separately**

Sampling Site: Matthiessen Park, Irvington NY

Surrounding Land Use: Pier, forested, grassy, parking lot used for recreation: boating, jogging, fishing, picnics, playground

Area: 60% recreation, 15% commercial/industrial, 5% urban/residential, 15% forested, 5% beach

Shoreline: Sandy, muddy, rocky - beach, banks altered, riprap, wood bulkhead, pipe entering the water, area covered in vegetation

Plants: 80% grass, 15 % trees (not forest), 5% flowers & bushes

Water Depth: varied; depth increased as the day progressed

River Bottom: muddy, sandy, rocky

<i>ITEM</i>	<i>Times</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Reading 3</i>
<i>Physical</i>				
Air Temperature	9:30 AM 12:00 PM	44 F (10 C) 62 F (17 C)		
Wind Speed	10:30 AM	2 (Beaufort Wind Scale)		
Cloud Cover	11:00 AM	26-50%	Partly Cloudy	
Weather today	No rain			
Weather recently	Dry, average temperatures			
<i>Water Surface</i>				
<i>TIMES</i>		9:15	9:30	9:50
<i>Water Temperature –</i>	9:30 AM 11:45 AM	52 F 57 F	10 C 13 C	Water shaded
<i>Turbidity – site tube</i>	9:30-11:00 AM	25 cm average		
<i>Chemical</i>				
<i>DO elementary DO kits using color key</i>	9:30 AM	8 ppm Avg.	10 degrees C	70% saturated
<i>pH – color match test kits</i>	9:30 AM 10:45 AM	7 6.5	=	

	11:30 AM 12:00 PM	7 6.5		
Salinity - hydrometer	11:00 AM	9 ppt average		
Fish Catch- 9:30-12:00 noon 30 ft. net	Species At. Silversides Bay Anchovy White Perch Smallmouth Bass Winter Flounder Striped Bass Shiners Porgy American Eel	# Caught 10 7 3 1 1 1 3 1 2	Totals Total Diversity:9 Total Catch: 29	
MacroInvert. Catch	Shrimp Mud Crab Blue Crab	3 2 4		
Tides	Time 8:30 AM 11:30 AM 11:50 AM 12:10 PM 12:30 PM	H2O height 13 cm 15 cm 20 cm 28 cm 33 cm	Rise/Fall Falling->Rising Rising Rising Falling Falling	Rate of change <i>Shift in this time</i> <i>Can't calculate</i> <i>5 cm/20 mins</i> <i>8 cm/20 mins</i> <i>5 cm/20 mins</i>
Currents - NR	Time	m/60 sec	Cm/sec	Direction
Core –	Length	Rare Wood Macro-Inv. Living Vege	Common Clay Gravel Pebbles	Abundant Sand Mud
Traffic-Commercial	10:15 AM	Buchanan	Red	North /Loaded
Other Items	Grasshoppers, turkey vultures, flies, ants, robins, seagulls, chipmonks, squirrels, Canadian geese, yellow jackets, redbill hawk, bees, house sparrows, peregrine falcon, pigeons, butterflies, moths.			