

Snapshot Day 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 25E
Matthiessen Park, Irvington
Joanna Morabito- Irvington High School Marine Science Class
16 students, 11/12th graders
***Philip Levine- Irvington Middle School**
170 students, 6th Grade
Latitude 41° 2' 30" N Longitude 73° 52' 32" W
***Middle School Data Recorded and posted separately**

Area: 40% grass, 10% beach, 5 % forested, 45% river

Surrounding Land Use: train, boats, buildings, cars, park

Sampling Site: Matthiessen Park

Plants:

Water Depth: varied; depth increased as the day progressed

River Bottom: Rocky close to the beach and muddy farther away

Weather Conditions: Cloudy, period of light drizzle between 10 am and 11 am; 54 degrees F

<i>ITEM</i>	<i>Times</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Reading 3</i>
<i>Physical</i>		9:25 am	10:30 am	
Air Temperature		54 F (12.2 C)	55 F (12.7 C)	
Wind Speed		3 (Beaufort Wind Scale)	3 (Beaufort Wind Scale)	
Cloud Cover		100%	100%	
Weather today				
Weather recently	Rainy and Windy on Monday Night (.39 inch)			
<i>Water Surface</i>				
<i>TIMES</i>		9:15	9:30	9:50
<i>Water Temperature –</i>		61 F (16.1 C)	54 F (12.2 C) (may be an incorrect reading)	62 F (16.6 C)
<i>Turbidity –water chemistry test kit</i>		18 cm	27 cm	36.5 cm
<i>Chlorophyll</i>				
<i>Chemical</i>				

DO (drop kits)		4 ppm 40% saturation	4 ppm 31% saturation (temp. reading may have been incorrect)	4 ppm 40% saturation
pH		7	7	7
Salinity - meter		11	11	12
Alkalinity				
Nitrates	9:15 am	.4 PPM (CHEMets)		
Phosphate	9:15 am	.1 PPM (CHEMets)		
Fish Catch- ***SEE MIDDLE SCHOOL DATA	Number Caught	Species	Average Length	Seine
Lots of seaweed				
Tides R= right tide stick L = Left tide stick	TIME (am)	Water height	Rise/Fall Rise	***SEE MIDDLE SCHOOL DATA
Currents	Time 9:25 am 10:20 am 10:50 am 11:00 am	Cm/60 sec	Cm/sec Still current Still Current 1.39 cm/sec 2.38 cm/sec	Direction Ebb ebb
Core *** SEE MIDDLE	TIME	Rare	Common	Abundant

SCHOOL DATA				
Traffic	A barge travelled down the river near the Tappan Zee at around 10:00 am			
Other Items				