

**Snapshot Day 10/10/13 Data**

**(Salt Front RM 69.3)**

**RIVER MILE 25E**

**Matthiessen Park, Irvington**

**Philip Levine- Irvington Middle School**

**170 students, 6<sup>th</sup> Grade - supported by:**

**\*Joanna Morabito- Irvington High School Marine Science Class**

**16 students, 11/12<sup>th</sup> graders**

**15 adult helpers**

**Latitude 41° 05' N Longitude 73° 50' 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:** 50% recreation, 30% commercial/industrial, 10% urban/residential, 5% forested, 5% beach

**Shoreline:** Beach, banks altered, riprap, wood bulkhead, pipe entering the water, area covered in vegetation

**Plants:** 70% grass, 25 % trees (not forest), 5% flowers

**Water Depth:** varied; depth increased as the day progressed

**River Bottom:** sandy, muddy, rocky, weedy

<b>ITEM</b>	<b>Times</b>	<b>Reading 1</b>	<b>Reading 2</b>	<b>Reading 3</b>
<b>Physical</b>				
Air Temperature	9:00 AM 11:30 AM	55 F (12.7 C) 60 F (15.6 C)		
Wind Speed	9-00 AM	2 (Beaufort Wind Scale)	11:30 AM	4(Beaufort Wind Scale)
Cloud Cover	9-11:30 AM	>75%		
Weather today	10-11:30 AM a little rain/drizzle			
Weather recently	Rainy, cooler, windy on Monday Night (.39 inch)			
<b>Water Surface</b>	Not calm but not choppy – 'wavy'			
<b>TIMES</b>		9:15	9:30	9:50
<b>Water Temperature –</b>	9-11:30 AM	55 F (12.7 C) 61 F (16.1 C)		Taken in 3 ft. water depth – shady area
<b>Turbidity – site tube</b>	9-11:30 AM	27 cm to 47 cm		
<b>Chlorophyll</b>				
<b>Chemical</b>				

<b>DO</b> Estuary wide kits	9-11:30 AM	4 ppm 7 ppm	11 degrees C 17 degrees C	35% saturated 70% saturated
pH – color match test kits	9-11:30 AM	6.5 - 7		
Salinity - hydrometer	9-11:30 AM	10 – 12 ppt		11 average
<b>Fish Catch-</b>	<b>Species</b>	<b># Caught</b>	<b>Largest (cm)</b>	<b>Totals</b>
	Comb Jellies	3		<b>Total Diversity: 13</b> <b>Total Catch: 37</b>
	White Perch	6	10	
	Hogchoker	2	5	
	North. Pipefish	2		
	At. Silversides	5	4	
	Striped Bass	6	9	
	Sum. Flounder	1		
	Bay Anchovy	4		
<i>* reported as freshwater darter</i>	Mullet*	1		
<i>**reported as darter</i>	Naked Goby**	2		
<i>#* reported as black crappie</i>	Unidentified #*	1		
	Blue Crab	3	2 F, 1 M	
	Mud Crab	1		
<b>Tides</b>	TIME (am)	Water height	Rise/Fall	<b>Rate of change</b>
	8:30 AM	13.5 cm		<i>64 cm/180 mins</i>
	11:30 AM	77.5 cm	Rising	<i>.36 cm/min</i>
<b>Currents</b>	<b>Time</b>	<b>Cm/60 sec</b>	<b>Cm/sec</b>	<b>Direction</b>
	9:00-10:30AM			Still
	10:30- 11:30AM			Ebb
<b>Core – 9-11:30 AM</b> <i>Water depth 3-4 ft.</i>	<b>Time</b> 9-11:30 AM	<b>Rare</b> Leaves Wood Shell Brick coal	<b>Common</b> Gravel Pebbles	<b>Abundant</b> Mud Sand
<b>Traffic- Commercial</b>	11:20 AM	Barge	Brown/rusty	Southbound/loaded
<b>Recreational</b>	10:30 AM 10:57 AM 11:19 AM	Speedboat Speedboat Equators X	Blue/white Black/white Blue	Southbound/light Southbound/light Southbound/light
<b>Other Items</b>	Seagulls, Canadian geese, squirrels, chipmunks, 1 osprey			