

**Snapshot Day 10/18/11 Data**  
**(Salt Front RM 36)**  
**RIVER MILE 25E**  
**Matthiessen Park, Irvington**  
**Joanna Morabito- Irvington High School Marine Science Class**  
**17 students, 11/12<sup>th</sup> graders**  
**Latitude 41° 2' 30" N Longitude 73° 52' 32" W**



**Area:** Large, grassy field and small beach with riprap on shore.

**Surrounding Land Use: Sampling Site:** 90% grassy field; 10% beach

**Plants:** No water plants; Trees in park, grass

**Water Depth:** 4 feet

**River Bottom:** Sand and rock

**Weather Conditions:** Partly Cloudy, 67 °F; Calm wind

**Sampling Times:** 11:45 AM- 1:45 PM

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:00 PM	67 °F		
Wind Speed	12:00 PM	Calm		
Cloud Cover	12:00 PM	Partly Cloudy		

Weather today	Light rain early in the morning before arrival; Partly cloudy conditions during sampling time.			
Weather recently	Partly cloudy over the last 3 days; Windy over the weekend			
<b>Water Surface</b>	Calm			
<b>Water Temperature –</b>	12:00 PM 12:41 PM	63 °F	63 °F	
<b>Turbidity – long-site tube</b>				
<b>Chlorophyll</b>				
<b>Chemical</b>				
DO (drop kits)				
pH	12:00 PM 1:30 PM	7.2	7.2	
Salinity - meter				
Alkalinity				
<b>Nitrates</b>	12:12 PM 12:50 PM	< .5 mg/L	< .5 mg/L	
<b>Phosphate</b>	12:12 PM 12:50 PM	2.0 mg/L	1.0 mg/L	
<b>Fish Catch- 12:00 PM to 1:25 PM</b>	<b>Number Caught</b>	<b>Species</b>	<b>Average Length</b>	<b>Seine</b>
	41	Atlantic Silverside	7 cm	
	1	*Rainbow smelt- probably another	9.5 cm	*Students note this was probably mistaken identity

		silverside		
<b>Tides</b>	<b>TIME</b>	<b>Water height</b>	<b>Rise/Fall</b>	
<b>Currents</b>	<b>Time</b>	<b>Cm/60 sec</b>	<b>Cm/sec</b>	<b>Direction</b>
	12:00 PM	.15 cm/60	.003 cm/sec	Flood
<b>Core –</b>	<b>TIME</b>	<b>Rare</b>	<b>Common</b>	<b>Abundant</b>
<b>Traffic</b>				
<b>Other Items</b>				

