

**Snapshot Day 10/10/13 Data  
(Salt Front RM 69.3)**

**RIVER MILE 32**

**Lewis & Engel Park**

**Bridget Baumann & Artie Carlucci, Ossining HS AP Environmental Science**

**9<sup>th</sup>-12<sup>th</sup> grade – 45 students**

**41° 10'N - 73° 52'W**



**Ossining High School Team**

**Location:** Wading beach at Lewis J. Engell Park, Ossining, NY

**Area:** Beachfront area with a ferry pier, paved sidewalk, rock wall lining the river, grass

**Surrounding Land Use:** 100% beach

**Sampling Site:** bulkhead lines the shoreline with pier, rock wall, beach, riprap, rocky, weedy, used for picnics and boats. Pipe enters the river North of the sample site.

**Plants in area:** yes - about 15% of the area had plants – of that 80% was water celery (Vallisnaria). Aside from plants in the water there was Japanese knotweed and other grasses in the sampling area.

**Water depth:** 0-4 feet deep

**River Bottom:** sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:00 AM	54°F 12.3°C		
Wind Speed	9:00 AM Beaufort #3	NE		
Cloud Cover	10:15 AM	Mostly	51-75%	

		Cloudy		
Weather today	10:00 AM small amount of rain			
Weather last 3 days	Monday evening/ night Rain, Tues/Weds Fair and dry wind, unusual temperatures			
Water	Choppy			
<b>Water Temperature</b>	9:30 AM	66.2° F 19 °C		3 replicates – all the same
	10:30 AM	68° F 20 °C		3 replicates – all the same
<b>Turbidity- secchi</b>	9:57 AM	40 cm		
<b>Chemical</b>				
DO ( drop count) <i>overcast, 3 ft. from shore in slightly choppy water</i>	9:30 AM 10:30 AM	2.0 mg/L 6 mg/L	19 ° C 20 ° C	25% saturated 70% saturated
pH (indicator sol.)	8:57 AM	7.0		
Salinity- hydrometer	8:57 AM	15 ppt		
<b>Fish Catch 30 ft. seine</b>	<b>Number Caught</b>	<b>Species</b>	<b>Length of largest</b>	
8:30-11:30 AM	1	Juvenile blue crab		<b>Diversity - 3</b>
	1	Juvenile mud crab		<b>Total Count -8</b>
	6	Comb jellies		
<b>Tides-</b>	<b>Time</b>	<b>measurement</b>	<b>Rate of Change</b>	<b>Rising/Falling</b>
	9:00 AM	51 cm		
	10:00 AM	60 cm	9 cm/60 minutes	Rising
	10:30 AM	75 cm	15 cm/30 min	Rising
<b>Currents</b>	<b>Time</b>	<b>Cm/30 secs</b>	<b>Cm/sec</b>	<b>kts</b>
<b>Flood Current</b>	9:00 AM	2 cm/30 secs	0.067 cm/sec	0.0013 kts
<b>Shipping</b>	Ossining to Haverstraw Ferry	Ran 6 times while we were there		
<b>Core Description</b>	<b>Length</b>	<b>Abundant</b>	<b>Common</b>	<b>Rare</b>
<b>Observations</b>	Cormerants, Sea Gulls, Mallard Ducks			