

Snapshot Day 10/8/09 Data

(Salt Front RM 60.3)

RIVER MILE 32

Lewis & Engel Park

Bridget Baumann & Artie Carlucci, Ossining HS Environmental Club

9th-12th grade – 25 students

41°09.288'N - 73°52.159'W

Location: Lewis J. Engell Park, Ossining, NY

Area: Beachfront area - paved sidewalk, rock wall lining the river, grass.

Surrounding Land Use: 15% beach; 15% industrial/commercial; 10% Urban/Residential.

Sampling Site: bulkhead lines the shoreline – rock wall, beach, riprap, rocky, weedy

Plants in area: Water celery 95% cover

Water depth:

River Bottom –sandy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:45 AM	61°F 16°C		
Wind Speed	17.6 km/hr	Beaufort #3	10 knots	Wind meter 11
				Wind N
Cloud Cover	Partly cloudy			
Weather today	Clear and windy, more cloud cover as time progressed			
Weather last 3 days	Yesterday a lot of wind, recent rain			
<i>Water Temperature</i>	11:15 AM water 2 ft.	63° F 17 °C	62° F 16.75 °C	Average: 62.5° F 16.87 °C
	12:30 PM water 3 ft.	64° F 18 °C	64° F 18 °C	64° F 18 °C
	1:07 PM water 2 ft.	64° F 19 °C	62° F 18 °C	63° F 18.5 °C
<i>Chemical</i>				
DO (drop count)	11:01 AM	9.0 mg/L	21 °C	100%
	12:35 PM	11.0 mg/L	18.5 °C	120%
	12:50 PM	9 mg/L	26.6 °C	110%
pH (indicator sol.)	11:09 AM	6.5 6 7		7.66
	11:11 AM	7 6.5 6.5		

	11:31 AM	6.75 6.5 6.75		
	11:38PM	6.9 6.75 6.5		
Salinity	10:30 AM	10 ppt	14 ppt	* Salinity doesn't make sense for this location
<i>hydrometer</i>	11:30 AM	14 ppt		
Nitrogen		0 ppm		
Phosphates		1 ppm		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>		
	19	Silverside	5-6 cm	
	1	3 spine stickleback	2 inches	
	1	Juvenile Bluefish	5 inches	
	7	Banded Killifish	2 inches	
	1	Shad	4 inches	
	1	Shrimp		
<i>Tides</i>	11:07 AM	0 cm		
	11:37 PM	3 cm	Rising	
	12:30 PM	17 cm	Rising	
	12:49 PM	15 cm	Rising	
<i>Currents</i>	10:47 AM	810 cm/60 sec	Ebb	
	11:20 AM	480 cm/60 sec	Ebb	
	12:40 PM	420 cm/60 sec	Ebb	
<i>Shipping</i>	10:32 AM	Commercial boat	White	Southbound empty
<i>Core Description</i>	<i>Length</i>	<i>Abundant</i>	<i>Common</i>	<i>Rare</i>
<i>Other</i>	1 black crested cormorant, 6-8 seagulls, geese flying south. Seagulls hovering near shore sitting in seaweed and some swimming and floating over the waves. 1 motor boat broke loose of mooring			
<i>Journal</i>	Rocks surrounding the edges of the shore beside where the sand is. Across the river is mountainous. Trees surround the edge of the river. Some of the trees have already changed color. A lot of boats are anchored in the center of the river a lot of bouys and a really long dock.			