

Day in the Life of the Hudson River 10/22/20
LOUIS ENGEL PARK, OSSINING
RIVER MILE: 32.5
Salt Front: ~ RM 75
Ossining High School– Artie Carlucci, 9 participants
Latitude 41.15483 N & Longitude – 73.86959 W



Sampling at Ossining waterfront for turbidity (water clarity) using a turbidity tube

Location: Louis Engel Park, Ossining, Westchester County, NY

Area: Beachfront area with a ferry pier, paved sidewalk, riprap, grass by metro north station

Surrounding Land Use: 40% beach; 20% Residential/Urban; 40% Industrial/Commercial

Sampling Site: bulkhead lines the shoreline with pier, beach area, shoreline riprap, debris in area such as broken concrete/docking, piping entering the river north of sampling site, brick pieces, used for picnics and boating.

Shoreline: 50% rock, 50% sandy

River Bottom: sandy, rocky

Plants in water: none

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	3:15 PM	17 ° C	63 ° F	
<i>Wind Speed:</i>	3:15 PM	2 m/s		
<i>Weather today</i>	No Rain			
<i>Weather past 3 days:</i>	Fog, cloudy, partly sunny			
<i>Tides-</i>	<i>Low Tide</i>	<i>High Tide</i>	<i>Time of Sampling</i>	<i>Tide</i>
	10:40 AM	3:30 PM	3:30 PM	Slack
<i>Current-</i>	<i>Time</i>	<i>cm/second, Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	3:30 PM	1 cm/sec		
<i>Water Temperature-</i>	3:15 PM	18 ° C	64 ° F	
<i>Turbidity- Long Sight Tube</i>	3:15 PM	82 cm		
Chemical				
<i>Salinity- Hydrometer</i>	3:30 PM	12 ppt		
<i>DO – Lamotte Drop Count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	3:30 PM	18 ° C	4 ppm	40%
<i>pH – Color Match Kit</i>	3:30 PM	7		
<i>Nitrates</i>	3:30 PM	5 ppm		
<i>Phosphates</i>	3:30 PM	1 ppm		
Biological				

<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
	21	Atlantic Silverside	12 cm	7 cm
	3	Striped Bass	16 cm	9 cm
Fish Totals	TOTAL: 24	Diversity: 2		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>
Macroinvertebrate Totals	TOTAL:	Diversity:		
Observations	8-10 sea gulls feeding along the tide line at high tide			