

**Day in the Life of the Hudson River 10/16/18 Data
MATTHIESSEN PARK, IRVINGTON**

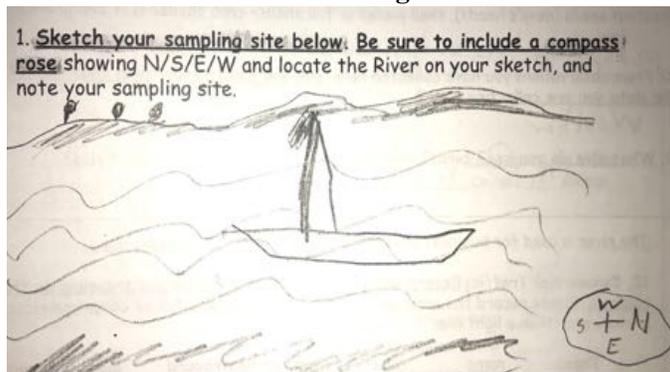
RIVER MILE: 25

Salt Front: ~RM 24

Irvington MS and HS- Amy Panitz, Karen Bodnar

250 students 6th, 8th, 11th, 12th grade, 15-20 adults

Latitude 41.04164 N & Longitude – 73.87398 W



Location: Matthiessen Park, Town of Irvington, Westchester County, NY

Area: Covered in vegetation, riprap (large rocks), Forested and Grassy

Surrounding Land Use: 25% Urban/Residential; 60% Forested; 10% Industrial/Commercial; 5% Beach
Used for picnics, fishing and jogging

Sampling Site: Beach, bulkhead, altered banks, covered with vegetation, riprap at lighthouse

Shoreline: 95% Rocky; 5% Sandy

River Bottom: muddy, sandy

Plants in area: No plants in water area

Water: Calm

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	11:40 AM	10 °C	50 °F	
<i>Wind Speed:</i>	11:42 AM	Beaufort 4	North	
<i>Weather Today:</i>	11:42 AM Rain, partly cloudy (26-50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	10:33 AM	15 °C	59 °F	
	10:33 AM	15 °C	59 °F	
<i>Turbidity-</i>	10:42 AM	10 cm, 8 cm, 9cm Avg: 9 cm		
	10:48 AM	9 cm, 12 cm, 7 cm		Avg: 9.33 cm
Chemical				
<i>Salinity- Hydrometers*</i>	5 ppt	2768 ppm Cl-	5000 ppm TS	<i>*This reading seems a little high for this site</i>
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:50 AM	15 °C	11 ppm	110%
<i>pH -</i>	10:30 AM	7		
	10:43 AM	8		

<i>Biological</i>					
<i>Fish – seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	12:30 PM
	10	Striped Bass		16 cm	
	2	White Perch		19 cm	
	3	Atlantic Silverside		7 cm	
	1	American Eel		40 cm	
TOTAL: 16	DIVERSITY: 4				
<i>Macroinvertebrates- Seine</i>	<i>Number</i>	<i>Name</i>		<i>Length of longest</i>	
	5	Blue Crab			
	2	Mud Crab			
	1	Shrimp		5 cm	
TOTAL: 8	DIVERSITY: 3				
<i>Tides</i>	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
<i>Currents Flow</i>	<i>Time</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	11:46 AM	15	0.29158	South	Ebb
<i>Sediment Core</i>	<i>Water depth</i>	<i>Length</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other</i>
<i>Boats</i>	<i>Time</i>	<i>Name</i>	<i>Color</i>	<i>North/South</i>	<i>Loaded/Light</i>
Recreational	11:30 AM	NY8165	Black	North	Light
Recreational	11:39 AM	Planet	White	North	
Recreational	11:41 AM	Boat	White	North	Light
Recreational	11:43 AM	Ball	Orange	North	Loaded
Recreational	11:47 AM		Gray	South	Loaded
<i>Other Observations</i>	Rocks, trees, birds, bridge, water, helicopter, boats, squirrels, bugs (ants), feathers				