

Day in the Life of the Hudson River 10/16/18 Data

MATTHIESSEN PARK, IRVINGTON

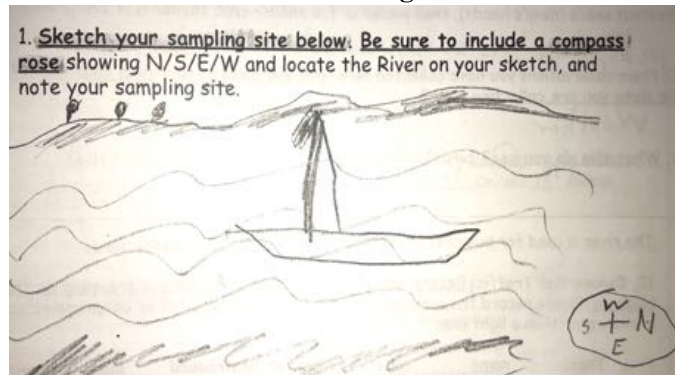
RIVER MILE: 25

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

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

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