

Day in the Life of the Hudson River 10/13/22

USMA, West Point

RIVER MILE: 52

Salt Front: ~ RM76

USMA, West Point- MAJ Missy Moorehouse, 185 students & 88 adults

Latitude 41° 23'35.63" N & Longitude – 73°57'6.04" W



Location: USMA, West Point- Gees PT turn around

Area: At the end of Ernst Rd on the beach and rocky shore across from coast guard marker 37

Surrounding Land Use: 80% open/grassy; 15% Forested; 5% Beach

Sampling Site: Beach and RipRap

Shoreline: Sandy

Water: Choppy

Plants in area: No plants in the water

River Bottom: muddy and rocky

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	11:00 AM	18.9° C	66°F	
<i>Wind Speed:</i>	11:00 AM	<i>Anemometer</i> 1.9 m/s	<i>Beaufort</i> NR	<i>Direction</i>
<i>Weather today</i>	11:00 AM	> 75% cloud cover	Start & Stop Rain	
<i>Weather the past 3 days:</i>	The temperature has been cooler with clear skies			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Water Height (cm)</i>
	11:00 AM- 11:30 AM 12:00PM 12:30 PM	Rising Rising Rising Rising		18 cm 15 cm 7 cm 9 cm
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i> <i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	11:00 AM	18.7°C		
<i>Turbidity- Turbidimeter (NTU)</i>	11:00 AM	27.8 NTU		
<i>Chemical</i>				
<i>Salinity- Meter/Probe</i>	11:00 AM	Conductivity 6.39 mS/cm		
<i>Standardized Salinity – HR Quantab</i>	NR			
<i>DO – Meter/Probe</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>

	11:00 AM	18.7°C	8.32	NR	
pH – Meter	11:00 AM	7.7			
Nitrates- NR					
Phosphates- NR					
Alkalinity- NR					
Biological					
Fish – Seine, fly fishing, box trap, electro-shocking	Number	Name	Length of longest	Length of smallest	
	1	American Eel	-	-	
	11	American Shad	5.3 cm	-	
	1	Channel Catfish	-	-	
	1	Banded Killifish	5.1 cm	-	
	67	Atlantic Silverside	8.5 cm	-	
	6	White Perch	18 cm	-	
	13	Striped Bass	-	6.7 cm	
Fish Totals	TOTAL: 100	Diversity: 7			
Macroinvertebrates	Number	Name	Length of longest	Length of smallest	
	8	Blue Crab	15.5 cm	2.4 cm	
Macroinvertebrate Totals	TOTAL: 8	Diversity: 1			
Sediment Core - NA					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
Boats-NR					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial					
Residential					