

**Day in the Life of the Hudson River 10/14/21****South Dock, West Point****RIVER MILE: 52***Salt Front: ~ 49*

MAJ Missy Moorehouse, Patrick Baker &amp; USMA, West Point

*36 students & 19 adults***Latitude 41.3933 N & Longitude – 73.9517 W****Location:** South Dock, West Point, NY**Area:** Shallow cover at the south side of Gee's Point; in the vicinity of Duck Island; beach area on the waterfront along the West Point property**Surrounding Land Use:** 70% Urban/Residential; 20% Forested; 10% Beach**Sampling Site:** Forested, grassy, parking lot, Beach, banks altered, riprap, pipe entering the water**Shoreline:** 30% Sandy; 35% Muddy; 30% Rocky**Water:****River Bottom:** Muddy, sandy, rocky**Plants in water:**

\*NR = Not read/recorded

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ITEM	Time	Reading			Comments
Physical					
Air Temperature	11:00 AM	21.6 ° C	70.88 ° F		
Wind Speed:	11:00 AM	Anemometer 3-5 knots	Beaufort 2		Direction N
Weather today	11:00 AM	26-50% cloud cover	No rain		
Weather the past 3 days:	The days have been sunny, but partly cloudy; no rain; warmer than usual.				
Tides-	Time	Rising, Falling, Unchanged		Height (cm)	
	7:30 AM- 8:34 AM 9:00AM 9:35 AM	Falling Falling Falling Falling		Change 3.8 in 30 mins Change 3.2 in 64 mins Change 3.8 in 26 mins Change 4.5 in 35 mins	
Current-	Time	Cm/sec	Knots	North/South	Ebb/Flood/Slack
	11:23 13:15 13:30	0.13 0.30 0.51	0.0025	South South South	Ebb Ebb Ebb
Water Temperature-	10:52 AM	19.2° C		67.5 ° F	
Turbidity- Turbidimeter	10:52 AM	27.4 NTU			
Chemical					
Salinity- Meter/probe	10:52 AM	100 ppm		0.1 ppt	Conductivity – 227 mS/cm
Standardized Salinity- Low Range Quantabs	8:34 AM 10:52 AM 12:11 PM	All 52 ppm Total Salinity			
DO – Meter/probe	Time	Temp		ppm DO	% Saturation
	10:52 AM	19.2 ° C		8.6	96%
pH – Meter	10:52 AM	7.83			
Nitrates- NR					
Phosphates-NR					
Biological					
Fish -8:00-16:00	Number	Name		Length of longest	Length of smallest

<i>seined</i>					
	1	American Eel -yellow	25.5 cm	NA	
	30	Alewife	NR	NR	
	9	American Shad	NR	NR	
	35	Spottail Shiner	11.4 cm	5.1 cm	
	1	White Sucker	49.5	NA	
	1	Channel Catfish	45.75	NA	
	7	White Perch	6.4	5 cm	
	1	Bluegill	NR	NR	
	5	Hogchoker	15 cm	2.5 cm	
<b>Fish Totals</b>	<b>TOTAL: 90</b>	<b>Diversity: 9</b>			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	8	Blue Crab	2.8 cm	0.75 cm	
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 8</b>	<b>Diversity: 1</b>			
<b><i>Sediment Core</i></b>					
<b>Length</b>	<b>H2S smell</b>	<b>Oxid Top</b>	<b>Oil</b>	<b>Grain Size</b>	<b>Other Features</b>
<b><i>Boats</i></b>					
	<b>Time</b>	<b>Name</b>	<b>Color</b>	<b>North/Southbound</b>	<b>Light/Loaded</b>
Commercial					
Residential					