

**Day in the Life of the Hudson River 10/16/18 Data
MEMORIAL PARK, NYACK
RIVER MILE: 28**

Salt Front: ~RM 24

**Upper Nyack Elementary School- Michael Jones
88 students, 5th graders, 10 adults**

Afternoon Outdoor Science Alliance Team

Rockland County Division of Environmental Resources- Nicole Laible

Latitude 41.08742 N & Longitude – 73.91576 W

Location: Nyack Memorial Park, Nyack, Rockland County, NY

Area: Open and grassy, parking lot, picnics, fishing

Surrounding Land Use: 100% park

Sampling Site: beach, banks altered, riprap on shoreline, bulkhead

Shoreline:

River Bottom: sandy, muddy

Plants in area: no water plants in area

Water: calm, varied

This site hosted two groups of Nyack Elementary Schools during the day. This is the PM group.

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature:</i>	12:00 PM	11.7 °C	53 °F	
	1:00 PM	13.3 °C	56 °F	
		°C	°F	
<i>Wind Speed:</i>				
	1:00 PM	Beaufort 2		Northwest
<i>Weather Today:</i>	Partly Cloudy (26-50%)			
<i>Weather Previous:</i>				
<i>Water Temperature</i>	12:10 PM	14.46 °C	58 °F	
	12:35 PM	14.46 °C	58 °F	
	12:55 PM	13.34 °C	56 °F	
	1:25 PM	13.9 °C	57 °F	
	1:40 PM	17.26 °C	63.07 °F	YSI Probe
Chemical				
<i>Salinity-</i>	1:10 PM	0 ppt TS	0 ppt TS	Hydrometer
	12:35 PM	0 ppt TS	0 ppt TS	Hydrometer
	1:55 PM	0 ppt TS	0 ppt TS	Hydrometer
	1:25 PM	ppt TS	0 ppt TS	Hydrometer
	1:40 PM	0.26 ppt TS		YSI Probe
<i>Dissolved Oxygen –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>equipment</i>
	12:10 PM		10 ppm	Salifert DO Kit
	12:35 PM		12 ppm	Salifert DO Kit
	12:55 PM		11 ppm	Salifert DO Kit
	1:25 PM		12 ppm	Salifert DO Kit
	1:40 PM		12 ppm	Salifert DO Kit

<p><i>pH - *pH strips reading too low. Not accurate. Use YSI probe calculation</i></p>	12:10 PM	6, 6, 6, 6			*pH Strips
	12:35 PM	6, 6, 6, 6			*pH Strips
	12:55 PM	6, 6, 6, 6			*pH Strips
	1:25 PM	6, 6, 6, 6			*pH Strips
	1:40 PM	8.38			YSI Probe
<p>Tides</p>	Time	Rising, Falling, Still	Height (cm)	Rate of Tidal Change (cm/min)	<p>NOTE: AM group saw the tide falling throughout their sampling 10AM to 11:00</p>
	12:00 PM	Rising			
	12:30 PM	Rising			
	1:00 PM	Rising			
<p>Currents Flow</p>	Time	Cm/second	Knots	North/South	Ebb/Flood/Still
	12:30 PM	11.18	0.21732	North	Flood
<p>NOTE: AM groups saw the current ebbing during their sampling 10:00-10:45 AM</p>					