

**Day in the Life of the Hudson River 10/10/13 Data**  
**(Salt Front RM 69.3)**  
**RIVER MILE 58**  
**Plum Point/Kowawese, New Windsor, Orange County, NY**  
**Janet DeStefano, Vails Gate School**  
**19 3<sup>rd</sup> grade students, 7 adults**  
**GPS Latitude 41°27'47.67"N Longitude 74°0'42.88"W**

**Location:** Northern Sandy beach at Plum Point, New Windsor, Orange County, Public Shore, Picnic Area

**Area:** Sandy beach bordered by forested area and parking lot. Used for picnic, fishing, kayaking

**Surrounding Land Use:** Beach 100%,

**Sampling Site:** sandy beach (cove), rip rap in area of sampling site, debris in the area such as broken concrete, docking

**Plants in area:** 5% of area has water chestnut

**Water depth:** 3 ft.

**River Bottom** – sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	*Tom Lake submitted	18.3°C 65°F		
	11:45 AM	17°C 62°F		
Wind Speed	Beaufort #2			
Cloud Cover	overcast	9:30-noon dry	12:00 PM light drizzle	
Weather today	No rain from 0800-1010, absolutely still (no wind, water like glass, overcast, foggy)			
Weather recently	Raining Monday,			
<i>Water Surface</i>	calm			
<i>Water Temperature</i>	12:30 PM	20 °C 68 °F		
<i>Water Surface</i>	Choppy			
<i>Turbidity Long sight tube</i>	12:30 AM	41.75 cm		
<i>Chlorophyll</i>	2:00PM	0.3 color chart		
<i>Chemical</i>				
DO (drop kit)	TIME	Temp	DO	% Sat
DO – drop count test kits	12:10 PM	20 °C	8	70%
pH – indicator	12:27 PM	8.0		

Salinity – Tom Lake reading	9:30 AM			2.25 ppt
Test strips	1:00 PM		447 ppm Cl-	807 mg/L TS
<b><i>Fish Catch</i></b> 35 ft. ‘ with ¼ inch mesh	<b><i>Species</i></b>	<b><i>Count</i></b>	<b><i>Size of largest</i></b>	<b><i>Totals</i></b>
9:30-10:20 AM	Spottail Shiner	2	65-85 mm	<b>DIVERSITY - 4</b>
5 seines	White Perch	1	230 mm	<b>TOTALS - 6</b>
	Smallmouth Bass	1	200 mm	<b>(Not include crab)</b>
	American Shad	2	113 mm (yearling)	
	Blue Crab	2	y-o-y – M 14-15mm	
<b><i>Tides</i></b>	<b><i>Time</i></b>	<b><i>Height in cm</i></b>	<b><i>Rate of change</i></b>	<b><i>Rising/falling</i></b>
	9:30 AM		Falling	
	10:30 AM		Falling	
	11:00 AM		Falling	
	11:30 AM		Rising	
	12:00 PM		Rising	
	12:30 PM		Rising	
	1:00 PM		Rising	
<b><i>Currents</i></b>	11:45 AM	7.12 cm/sec	North	flood
	11:55 Am	9.18 cm/sec	North	flood
<b><i>Core</i></b>	TIME	Description	Common	Rare
	10:30 AM	7 cm H2S smell	Clay Mud	Sand
<b><i>Shipping</i></b>		Motorboat	Northbound	No cargo
<b><i>Observations</i></b>	Kettle of Turkey Vultures	Double-crested Cormorants		