

**Day in the Life of the Hudson River 10/23/14 Data  
(Salt Front RM 61.1)  
RIVER MILE 58a**

**Plum Point/Kowawese, New Windsor, Orange County, NY  
Jennifer Merriam, Orange County Community College  
9 Undergraduate Students, 1 Adult  
GPS Latitude 41°27'46.49"N Longitude 74°00'42.75"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 50%, Forested 50%

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

**Plants in area:** No plants in the water

**Water depth:** sampling in 50 cm depth

**River Bottom** – sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<b><i>Physical</i></b>				
Air Temperature	8:40 AM	9.5°C		
Wind Speed	Beaufort #5	North		
Cloud Cover	overcast			
Weather today	Steady rain			
Weather recently	Steady rain last 12 hrs. - cool temperatures			
<b><i>Water Surface</i></b>	choppy			
<b><i>Water Temperature</i></b>	8:35 AM	10.7°C		
	9:14 AM	10.9 °C		

<b>Water Surface</b>	Choppy			
<b>Turbidity</b> <i>Short sight tube</i>	9:00 AM	40 JTU		
<b>Chlorophyll</b>	8:50 AM	1.5		
<b>Chemical</b>				
DO	TIME	Temp	DO	% Sat
DO – drop count test kits	8:30 AM	10.7 °C	11	100%
pH – colormetric	9:05 AM	7 7		
Salinity – Quantab	9:14 AM	98 ppm Cl-		177 ppm TS
<b>Fish Catch</b> 20 ft. ‘ with ¼ inch mesh	<b>Species</b>	<b>Count</b>	<b>Size of largest</b>	<b>Totals</b>
3 pulls – 9:30 AM	Spottail Shiner	12		<b>DIVERSITY 10</b>
	White Perch	6		<b>TOTALS - 66</b>
	Channel Catfish	14		
	Striped Bass	18		<b>CPUE = 3.67</b>
	Pumpkinseed Sunfish	9		18 m total used to compute CPUE
	Red-breasted sunfish	1		
	Golden Shiner	1		
	American Eel	3		
	Herring	1		
	Catfish (not channel)	1		
<b>Tides</b>	<b>Time</b>	<b>Height in cm</b>	<b>Rate of change</b>	<b>Rising/falling</b>
	8:28 AM			Rising
	8:58 AM	5 cm	0.166 cm/min	Rising
<b>Currents</b>	8:45 AM	4 cm/sec	0.08 kts.	North/Flood