

**Day in the Life of the Hudson River 10/4/13 Data  
(Salt Front RM 69.3)**

**RIVER MILE 78**

**Quiet Cove, Poughkeepsie**

**Carolyn Klocker and Neil Curry from Cornell Cooperative Extension of Dutchess County, plus 4 youth employees from Poughkeepsie HS as part of NCLI**

**Robert Adams & another DEC Fisheries Staff**

**Skip Hoover, G. W. Krieger Elementary School (27) 4<sup>th</sup> & (26) 5<sup>th</sup> grade students,  
41.44°N and 73.56°W**



**Inspiration from Quiet Cove Waters**

**Location:** Quiet Cove, Poughkeepsie, Dutchess County

**Area:** Grassy area with parking lot, beach like waterfront

**Surrounding Land Use:** Picnics, boating and fishing – 60% is beach with rip rap banks, 40% previous industrial site

**Sampling Site:** An old industrial area that has been turned into a park. Used by people for picnics, fishing. Shoreline rocky, banks altered with rip rap and wooden bulkhead, boat launch for kayaks and canoes

**Plants in area:** none visible

**Debris in area:** remnants of industrial site and some papers in the water

**Water depth:** 160 cm in the area with concrete embankments

**River Bottom** – muddy in beach area

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Wind Speed</i>	<i>Precipitation &amp; Clouds</i>
<i>Physical</i>				
Air Temperature	10:14 AM	56°F °C	1-3 mph N	heavy cloud cover
	10:38 AM	56°F °C	4-6 mph N	heavy cloud cover
	11:34AM	54°F °C	7-10 mph N	heavy cloud cover

	1:01 PM	56°F °C	7-10 mph N	heavy cloud cover
Wind Speed				
Cloud Cover	cloudy			
Weather today	Cool and cloudy			
Weather recently	Mostly sunny temps in the high 60s			
<b>Water Description</b>				
<b>Water Temperature</b>	1:15 PM	17°C		
<b>Turbidity – long site tube</b>	10:00AM	30 cm		30 cm Avg
	10:30 AM	31 cm	32 cm	31.5 cm Avg
	11:00 AM	34 cm	34 cm	34 cm Avg
	12:30 PM	24 cm	23 cm	23.5 cm Avg
<b>Chlorophyll</b>				
<b>Chemical</b>	<b>TIME</b>	<b>DO (LaMotte elementary kit tablets)</b>	<b>Temp</b>	<b>%Saturation</b>
	9:51 AM	<4 ppm	16 °C	37% saturated
	10:30 AM	<4 ppm	16 °C	37% saturated
	11:10 AM	<2 ppm	16 °C	12% saturated
	12:35 PM	<4 ppm	22 °C	37% saturated
<b>(LaMotte kit color match )</b>	<b>Time</b>	<b>PH</b>	<b>NITRATES</b>	<b>PHOSPHATES</b>
	9:30 AM	8	<5 ppm	<1 ppm
	10:25 AM	8	<5 ppm	2 ppm
	11:05 AM	8	<5 ppm	2 ppm
	11:40 AM	7.5	<5 ppm	<2 ppm
Salinity				
<b>Fish Catch- 25 ft. – 3 pulls</b>	<b>Number Caught</b>	<b>Species</b>	<b>Length of largest</b>	<b>Seine - beach seine</b>
<b>9:30-11:00 AM</b>	2	Banded Killi	5 cm	
	1	Spottail Shiner		
<b>Total seine count</b>	<b>3</b>	<b>Total diversity - 2</b>		
<b>Tides –</b>	<b>Time</b>	<b>Top of water to top of pier</b>	<b>water depth</b>	<b>Rising/Falling</b>
	10:00 AM	79 cm	215 cm	
	10:36 AM	35 cm	185 cm	falling
	11:21 AM	45 cm	185 cm	falling
	12:44 AM	40 cm	198 cm	Nearly unchanged

<i>Currents</i>	<i>TIME</i>	<i>Time over 15 meters</i>	<i>Cm/sec</i>	<i>Direction</i>
	10:00 AM	52 secs	3.47 cm/sec	Ebb
	10:36 AM	47 secs	3.13 cm/sec	Ebb
	11:21 AM	67 secs	4.46 cm/sec	Ebb
	12:44 AM	143 secs	9.53 cm/sec	Flood
<i>Traffic</i>	9:55 AM	Sailboat		Southbound
	10:44 AM	Speedboat		Northbound
<i>Sediment Core – student descriptions</i>	The mud was fun to play with. It smells like clay dough and smells like iron,		The mud feels squishy with little rocks. It smelled like mold.	.