

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 78**

Quiet Cove, Poughkeepsie

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Dutchess County,**

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Skip Hoover, G. W. Krieger Elementary School (26) 4th & (27) 5th grade students,

Tracy Misch, Gayhead Elementary School, (27) 4th and (28) 5th graders

Support from Trout Unlimited of the Hudson Valley for financing this trip

41.44°N and 73.56°W

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>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:43 AM	14°C 57°F		
	10:36 AM	15°C 59 °F		
	11:35 AM	14.5°C 58 °F		
	1:03 PM	17°C 63°F		
Wind Speed	9:44 – 1:03 PM	Beaufort 1-3		South
Cloud Cover	cloudy			
Weather today	No rain, partly to mostly sunny			
Weather recently	Sunny, cold, breezy			
<i>Water Description</i>	VERY choppy			
<i>Water Temperature</i>	1:15 PM	17°C		

<i>Turbidity – modified secchi measure – bucket, cm hatch marks, & 1 inch secchi disk</i>	9:47 AM 10:08 AM 10:47 AM 12:39 PM	10 cm 9 cm 15 cm 10 cm		
<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (LaMotte elementary kit tablets)	9:26 AM	<4 ppm	14°C	* expect resolution not precise enough
	10:22 AM	<4 ppm	14°C	
	11:10 AM	<4 ppm	13°C	
	12:48 PM	4 ppm	16°C	45% saturated
	1:15 PM	4 ppm	17°C	40% saturated
pH (LaMotte color match kit)	9:26 AM	7.5		
	10:22 AM	8		
	11:10 AM	8		
	12:48 PM	7		
	1:15 PM	8		
Nitrates Using LaMotte Elementary test kits	9:26 AM-1:15 PM	<5 ppm		
Phosphates	9:26 AM-1:15 PM	<1 ppm		
Salinity				
<i>Fish Catch- 25 ft.</i>	<i>Number Caught</i>	<i>Species</i>	<i>Length of largest</i>	<i>Seine</i>
	2	Yellow Perch	22.6 cm	9:30-10:20 AM beach seine
	4	Pumpkin Seed	9.5 cm	
	2	Gizzard Shad	13.8 cm	
	1	American Eel	14-15.5 cm	
	7	Spottail Shiners	7.5-10.5 cm	
	4	White Perch	13-22 cm	
<i>Total seine count</i>	20	<i>Total diversity - 6</i>		

	9	Blueback Herring	6 cm	12:45 pm boat seine
	2	Striped Bass	8.5 cm	
	3	White perch	12 cm	
	1	Pumpkinseed	11.1 cm	
	1	Banded Killifish	9 cm	
	1	Smallmouth Bass	12 cm	
	6	Spottail shiners	10.5 cm	
Totals boat seine	23	Diversity 7		
<i>Tides – LT in POK 10:58AM</i>	<i>Time</i>	<i>Top of water to top of pier</i>	<i>water depth</i>	<i>Rising/Falling/Still</i>
	9:33 AM	55 cm	200 cm	
	10:18 AM	60 cm	190 cm	falling
	10:50 AM	60 cm	200 cm (wave?)	unchanged
	11:12 AM	61 cm	210 cm (wave?)	unchanged
	11:45 AM	58 cm	200 cm	rising
	12:46 PM	35 cm	237 cm	rising
NOTE: Looking at the data it appears the students were not placing the measuring stick in the same location to the bottom each time.				
<i>Currents</i>	<i>TIME</i>	<i>300 cm/sec</i>	<i>Cm/sec</i>	<i>Direction</i>
	9:33 AM	300 cm/71sec	4.2 cm/sec	South/Ebb
	10:18 AM	300 cm/79	3.8 cm/sec	South/Ebb
	10:50 AM			Still
	11:12 AM			Still
	11:45 PM	300 cm/76	3.9 cm/sec	North/ Flood
<i>Traffic</i>	9:45 AM	Tug boat	McAllister Girls	North/Full
	10:06 AM	2 Kayak		Northbound
	10:26 AM	2 Kayaks	Yellow and green	Southbound
<i>* Krieger's sheet</i>	*11:46 AM	DEC Boat	white	Northbound
	12:50 PM	Sight seeing- America Cruise Lines Independence	White	Southbound
<i>*Gayhead sheet</i>	*12:44 PM	DEC fishing boat		Northbound
<i>Sediment Core</i>	The mud	It smells like	We also found	It felt cool in my

	is dark gray. The top is nice and soft. The bottom is hard.	Earth.	a small rock and a leaf in the mud.	hand.
10:14 AM	The color of the mud is brownish, grayish and blackish.	The mud smells like salt water.	Found some pebbles in the mud	The mud feels mushy and sand
12:58 AM	Sample was dark brown.	Smelled like a copper penny	Found a leaf and a rock in the mud	Saw rocks and grains of sand in it.
Almanac Entry Gayhead's	<p><i>'When I went into the river with waders on it felt extremely weird. The waders got tight on my skin and I almost tripped on a rock. It was very fun and I hope that I will be able to do that again.'</i></p> <p><i>'The waders felt very cold. My feet felt like airbags. I couldn't see my feet at all. If you lifted up your feet they would float and you would fall a little. Sometimes my feet would get stuck. The river was very calm. – Marisa'</i></p>			
Krieger's	<p><i>The students each described mud samples from the river bottom.</i></p> <p><i>"The sample is watery and dirty. I found rocks and sticks in it. It smells like the sea."</i></p> <p><i>"The mud was fun to play with. The mud was brownish grey and it smelled like metal and grass. In the sample I found a stick, a leaf, and a wood chip."</i></p> <p><i>"The mud is mushy and it smells bad. It is slippery in my hand."</i></p>			