

**Snapshot Day 10/8/09 Data  
(Salt Front RM 60.3)  
RIVER MILE 76**

**Waryas Park, Poughkeepsie, Dutchess County  
Brian Mohan, Clearwater  
Jacob Lawrence, Arlington High School, 11-12<sup>th</sup> grade, 28 students  
N 41 – W 73**



**Location:** Waryas Park, Poughkeepsie, New York.

**Area:** public park

**Surrounding Land Use:** 50 % urban/residential; 20% Industrial/commercial; 30% park

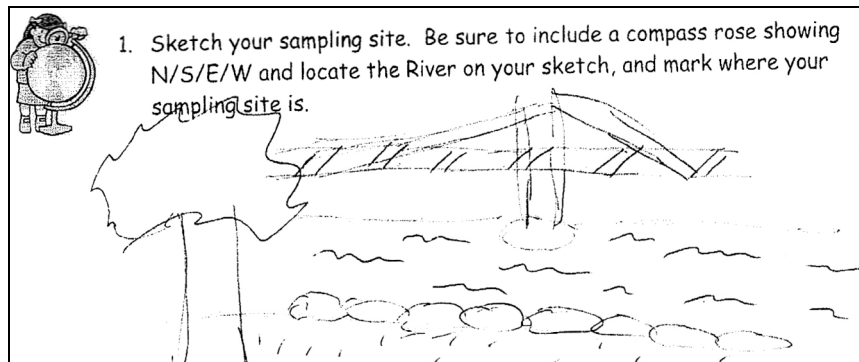
**Sampling Site:** grassy, pier, shoreline is riprap, banks altered

**Plants in area:** ~ 25% urban/residential, 50% forested, 25% industrial/commercial.

**Tidal Shallows:** Water celery 80%, Water Milfoil 10%

**Water depth:** 4 ft. for surface readings & 40 ft. for depth measures

**River Bottom** –muddy, rocky



<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:30 PM	17°C		

Wind Speed	4 beaufort	NW	13.5 mph 12.7 mph 14.9 mph 9 mph	
Cloud Cover	Partly cloudy	No rain	Very Windy	
Water	Very Choppy			
Weather recently	The day before – Wed., 10/7/09, was extremely windy and rainy			
<b><i>Water Temperature</i></b>	10:17 AM	11°C	Surface temp.	
	10:17 AM	14°C	Deep temp.	
	10:51 AM	13°C	Deep	
	11:17 AM	16°C	Surface temp.	
	11:17 AM	15°C	Deep temp.	
	11:49 AM	13°C	Surface temp	
	11:49 AM	14°C	Deep temp	
<b><i>Turbidity</i></b>	10:42AM	13.5 inches 11 inches	12.25 inches average	Very cloudy
	11:30 AM	12 inches		
	11:50 AM	19 inches		
<b><i>Chlorophyll</i></b>	10:50 AM	0.7	11:30 AM	0.4
	11:43	0.5		
<b><i>Chemical</i></b>				
DO (Test tabs)	10:15 AM	11°C	8.4 ppm 9.0 ppm	75% 80%
	10:57 AM	13°C	10 ppm	95%
	11:20 AM	16°C	8.6 ppm 9.0	93% 100%
	11:54 AM	16°C	9 ppm 8.8 ppm	90% 89%
pH – indicator solution	10:20 AM	7.6 8.0	Surface and deep	Average 7.8
	10:57 AM	6.0 7.6	surface deep	
	11:26 AM	7.75 7.2	Surface sample	Average 7.5
	11:26 AM	7.6 8.0	Deep sample	Average 7.8
	11:59 AM	7.5 & 7.2 8.0 & 7.5	Surface Deep	
Salinity - Quantab testtabs- low chloride	10:20AM	1.0 or 28 ppm Cl		

	10:51 AM	33 ppm Cl		
	11:15 AM	1.0 surface 2.0 1.2 depth	28 ppm 33 ppm	
<b><i>Fish Catch</i></b>	<b><i>Number Caught</i></b>	<b><i>Species</i></b>	<b><i>Largest</i></b>	
1 <sup>st</sup> pull - 10:27 AM	1	Tessellated darter	3 inch	<b>Total 2</b>
	1	Blue clawed crab	1 inch	
2 <sup>nd</sup> pull – 10:34 AM	2	Bluegill	4 inch	<b>Total 3</b>
	1	Killifish	4 inch	
<b><i>Tides</i></b>	10:15 AM	8.9 cm		
	10:48 AM	22.9 cm	Rising	
	11:15 AM	36.8 cm	Rising	
	11:47 AM	53.3 cm	rising	
<b><i>Currents</i></b>	10:25 AM	3600 cm/60 secs	60 cm/sec	ebb
	10:55 AM	5000 cm/60 secs	83.33 cm/sec	flood
	11:20 AM	6900 cm/60 secs	115 cm/sec	flood
	11:47 AM	5000 cm/60 secs	83.33 cm/sec	flood
<b><i>Core</i></b>	Rock on top of sediment	Bottom of core is all mud		
<b><i>Shipping</i></b>	10:59 AM	Tug – Grey	Southbound	Empty stone
	12:30 PM	Caribbean Cruise ship	Southbound	
<b><i>Others</i></b>	There are lots of people biking and enjoying the sights. I saw a groundhog on the rocks. I heard birds more towards the industrial side of the river.			