

**Day in the Life of the Hudson River 10/16/18 Data
(Salt front ~ RM 24)
RIVER MILE 76**

**Tidal mouth of Fallkill Creek, Poughkeepsie, Dutchess County
Nancy Arias & Emma Sears, Poughkeepsie Day School, 26 students, Citizen Science and
Environmental Outreach class & middle school students
N 41°709244' – W -73°940203'**



Location: West of Children’s Museum, Northern Waryas Park, Poughkeepsie, New York.

Area: North end of Public park, pier, grassy, parking lot. Park used for fishing, small boat launch, another pier for small boat launching. Erosion booms just to the north at a construction site.

Surrounding Land Use: Urban/Residential 30%, Forested 10%, industrial/commercial 10%, beach 50%.

Sampling Site: Shoreline is rocky inshore <1 ft depth with some scattered large rocks <2 ft. length, and sandy & rocky offshore <1 ft. depth,

Plants in area: No submerged rooted aquatic plants were visible but we did see periphyton (a complex mixture of algae, cyanobacteria, heterotrophic microbes, and detritus that is attached to submerged surfaces in most aquatic ecosystems) on coble size stones

River Bottom – rocky/muddy

Water depth: 3-4ft

Sampling time: 10:00 AM -11:45 AM

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	NR	60°F	15.8°C	
Wind Speed	NR	Beaufort		
Cloud Cover	Overcast			
Water	Slightly choppy (<1-2 in waves inshore)			
Weather	Did not rain during sampling			
<i>Water Temp.</i>	10:25	15.2°C		Avg: 15.2°C
	10:30	15.2		
<i>Turbidity – long sight tube</i>	11:10 AM	47 cm		

<i>Chemical</i>				
DO - CheMetrics	10:40	16.1°C	7 ppm	70% sat
pH – indicator solution	10:25 AM	7.95		
Salinity - Refractometer	10:15 AM	*3 ppt reported		*must be in error
Quantab	NR	39 ppm CL-	70 ppm TS	
Alkalinity - CheMetrics	0*			* probably in error
Nitrates- CheMetrics	0			
Phosphates- CheMetrics	0			
<i>Fish Catch – 12feet net – 3 hauls</i>	<i>Number Caught</i>	<i>Species</i>	<i>Largest</i>	
	NONE			
<i>Macroinvertebrates</i>	NR	Amphipods Zebra Mussels		
<i>Tides – tide stick</i>	NR	2 cm 6 cm	10 mins	2.5 cm/min
<i>Currents</i>	11:52	1.111m/30sec or 1,111 cm/30 secs	37cm/sec	0.72kts South
<i>Core</i>	NR			
<i>Shipping – rec.</i>	Times	Color	Direction	
<i>Recreation</i>	10:05 10:06	White boat White boat	Northbound Southbound	
<i>Observations</i>	Birds	Numerous zebra mussels		