

Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 153
River Park, Green Island Park, Green Island NY
Kate Perry & Lynn Schuster, Robert C. Parker School
51 students - 2nd & 3rd and 6th and 7th grade students, 17 adults
42.74 N -73.69 W



Location: Green Island Park boat ramp, below the Troy Dam, Albany County, NY
Area: park above bluff and then beach below just south of the Troy dam
Surrounding Land Use: Forested, Rocky, Fishing
Sampling Site: 70% industrial/commercial, 10% urban/residential, 20% planted/forested,
Shoreline: Rocky, broken concrete docking, very rocky shoreline, slag, concrete at the launch, brick pieces, vegetation
Plants in water: Some plants in the water – less than half covered.
Plants in area: goldenrod, grasses, fleabane, Joe Pyeweed, Virginia creeper, meadowsweet, and willows
Water depth: 0-10 cm along shore
River Bottom: rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:16 AM	58 °F 14°C		
	10:56 AM	60 °F 15°C		
Wind Speed	#2 Beaufort		North	
Cloud Cover	Mostly cloudy			
Weather today	Clouds increased as the morning progressed			
Weather recently	Large storms came through Monday evening – nothing else unusual.			
<i>Water surface</i>	Mostly calm			

<i>Water Temperature</i>	10:19 AM	15°C		
	10:49AM	15°C		
	11:14 AM	15°C		
<i>Turbidity – long site tube</i>	10:30 AM	20 cm 22.3 cm 23.1 cm	21.8 cm average	
	PM	51.1 cm 53.46 78.0	60.85 cm average	
<i>Chlorophyll</i>	10:30 AM	0		
<i>Chemical</i>	10:00 AM	1.0		
DO	10:19 AM	15°C	14 ppm	138%
(Drop count kit	11:14 AM	15	11	112%
pH - pen	10:30 AM	8.0 8.5 8.3		Average 8.3
Salinity – test stripes	11:00 AM	1.3 on strip	28 ppm chloride	50.56 ppm total salinity
<i>Fish Catch – 20 ft.X4 net</i>	<i>Time</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size Largest</i>
20 ft. pull - 3 seines, traps	10:00 AM Seine	4	Brook Silversides	3 cm
		1	Bluegill Sunfish	7 cm
		8	Banded Killifish	5 cm
Shocking backpack	10:30 AM	3	Bluegill Sunfish	3 cm
		3	American Eel	10 cm
		6	Banded Killifish	5 cm
	TOTAL CATCH	25	TOTAL SPECIES	4
	Macro-invertebrates	Blue Crab Pieces	Aquatic Snails	
<i>Tides</i>	<i>Time</i>	<i>Height in cm</i>	<i>Rising/Falling</i>	<i>Rate of change</i>
<i>Group 1</i>	10:07 AM	16 cm		
	10:23 AM	9 cm	Falling	0.44 cm/min
<i>Group 2</i>	10:30 AM	24 cm		1.25 cm/min
	10:48 AM	15 cm	Falling	0.50 cm/min
<i>Group 3</i>	10:54 AM	10 cm		
	11:09 AM	4 cm	Falling	0.40 cm/min

<i>Currents **</i>	Time	Cm/30 secs	Cm/sec	Knots	N/S Ebb/Fld/Still
	10:04AM	450 cm	15.0	0.29 kts	S- Ebb –
	10:05	732	24.4	0.47	S Ebb – C
	10:42	124	4.1	0.08	S Ebb – S
	10:47	297	9.9	0.19	S Ebb – S
	11:02	741	24.7	0.48	S Ebb - C
<p>** Students noted that the differences in results were due to throwing ability, human error, closeness to shore, and not necessarily a change in current. Some of the results were noted with “C” for channel and “S” for shore. Note the different in the speed of the current in the main channel versus along the shoreline.</p>					
<i>Traffic</i>	10:45 AM		Speedboat	Southbound	Recreational
<i>Core</i>	Alene took the only core – they tried many times during the day but overall the site is very gravelly, especially at high tide				
<i>Other Items</i>	There was a sad amount of garbage scattered along the bank. We saw only a few birds (gulls) flying and no other shore wildlife.				
<i>Almanac</i>	Overcast skies and high tide kept a lot of wildlife at bay at the Troy Dam. Students were thrilled by the changes in the water level as the tide went out. The uncovering of the shoreline brought shells, rocks and formations to light. The American eels and bluegills swimming in the aquarium stimulated questions and curiosity.				