

Day in the Life of the Hudson River 10/4/12 Data
RIVER MILE 153
River Park, Green Island Park, Green Island NY
Kate Perry & Lynn Schuster, Robert C. Parker School
31 students - 2nd & 3rd and 6th and 7th grade students, 16 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: Fishing launch, Rocky with weedy vegetation and a few small shrubs (gravelly)
Sampling Site: 50% industrial/commercial, 25% urban/residential, 10% planted/forested, 15% gravel/rock, boat access, across all commercial
Shoreline: Rocky, broken concrete docking, very rocky shoreline, and muddy in spots near trees, human- added concrete at the launch, brick pieces
Plants in area: If it were low tide not plants would be in the water – 10 % narrow leaf cattail; 5 % common reed; 1% water chestnut, 20% smart weed, 5% plantain, 5% goldenrod, 20% grasses, 5% fleabane, 10% Joe Pyeweed,
Water depth: 0-10 cm along shore
River Bottom: muddy, rocky bottom

<i>A</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:57 AM	69 °F 20°C		
	10:45 AM	62 °F 17°C		
Wind Speed	#0 Beaufort	1 kts.	South	
Cloud Cover	overcast			
Weather today	Some rain – increased during sampling and then slowed again			
Weather recently	Rainy and overcast, warm and humid			
Water surface	Water calm			

Water Temperature (2 ft. water)	10:05 AM	15°C 16 17		16°C
	10:30 AM	17°C 18 16		17°C
	10:59 AM	18°C 17 16		17°C
Turbidity –long site tube		25.3 cm 23.0 cm 26.8 cm	25.0 cm average	
Chlorophyll				
Chemical	10:00 AM	1.0		
DO (Drop count kit)	10:05 AM 10:30 AM 10:59 AM	16°C 17 17	8 ppm 11 6	80% 115% 60%
pH - meter	9:40 AM	6 6 7		Average 6.3
Salinity - Meter	11:05 AM	17 ppm 18 ppm		Avg 17.5 ppm
Nitrates	11:00 AM	0.2 ppm		
Fish Catch – 25 ft. net	Time	Number Caught	Species	Size Largest
9-10:30 AM	Seine 1	24	Spottail Shiners	4 inches
	Seine #2	200	Spottail Shiners	
	Seine #3	30	Spottail Shiners	
		2	River Herring	3 inches
		3	Smallmouth bass	5 inches
		2	Blue gill	3.5 inches
Tides	Time	Height in cm	Rising/Falling	Rate of change
	9:54 AM		Start	
Tide stick moved	10:00 AM		Falling	0.16 cm/min
	10:05 AM		Falling	1.25 cm/min
	10:21 AM	12 cm		
	10:31 AM	9.5 cm	Falling	0.25 cm/min

	10:48 AM	14 cm		
	10:52 AM	12 cm	Falling	2.0 cm/min
	10:58 AM	10 cm	Falling	1.5 cm/min
<i>Currents -</i>	10:10 AM	0.03 cm/sec	0.0005 kts	S- Flood
	10:30 AM	0.03 cm/sec	0.0005 kts	S- Flood
	The Troy Dam and Rip Rap going into the water may impact the current		A large tree jutting into the water nearby may affect our reading.	
<i>Traffic</i>		Sailboat	Southbound	people
<i>Other Items</i>	We saw a bald eagle on the way back to school. Beach are showed signs of angler use, fishing line was everywhere. Saw ducks, gulls, fish and squirrel, Some yellowjackets also.			
<i>Almanac</i>	Bins of fish! Reaching in to examine the shimmering spottails, scales fluttering in duration. Rain failed to disturb the excitement of the morning, but our data sheets failed to survive, The students collected data, observed the shore and water and explored the estuary for unusual life. Smiles abounded at the Troy Dam – Kate Perry			