

Day in the Life of the Hudson River 10/16/18 Data

RENSSELAER BOAT LAUNCH

Forbes Road, Rensselaer, NY

RIVER MILE: 146

Salt Front: ~ RM 24

Tech Valley High School & Troy's School 2-

76 students 9th & 5th grade, 7 adults

Dawn Baldwin, The Children's Museum of Science and Technology

Ashley Phillips, Tech Valley

Ann Jabour, School 2

42.658 Lat and -73.735 Long

Location: Rensselaer Boat Launch

Area: Boat Launch with small beach area, wooded, landscaped, adjacent to urban residential area

Surrounding Land Use: 30% urban/residential, 10% forested, 15% beach, 30%

industrial/commercial, 15% park

Sampling Site: Concrete boat launch with beach (sandy, small rocks)

Shoreline: Beach area, concrete boat launch

Plants in area: No visible plants in water, but a few water chestnut seeds on the beach

Water Depth: 2-4 feet

River Bottom description: sandy, rocky

Other: Flock of 50+ Canadian Geese landed on the river and rested for a few minutes



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	8:45 AM	6.1 °C	43°F	
	10:15 AM	8.3 °C	47°F	
<i>Wind Speed: Beaufort</i>	Morning	1	Southwest	
	Afternoon	2	Southwest	
<i>Weather today</i>	Partly cloudy			
<i>Weather recently</i>	Rainy Saturday and Monday; cool temperatures with rain overnight.			
Water Temperature	9:41 AM	10 °C, 10 °C, 13 °C	50 °F, 50 °F, 55.4 °F	Avg: 11.6 °C Avg: 51.8 °F
	10:30 AM	12 °C, 12 °C, 12.5 °C	53.6 °F, 53.6 °F, 54.5 °F	Avg: 12.17 °C Avg: 53.9 °F
Turbidity - short sight tube	9:30 AM	40 JTU, 30 JTU, 40 JTU		Avg: 36.67 JTUs
Chemical				
<i>Salinity</i>	10:00 AM	<1 quantab unit	(Below Detection)	LR Quantabs
<i>DO – drop count</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:40 AM	10 °C	5	44%

<i>pH – test strips</i>	10:23 AM	6.3, 6.4, 6.4		Avg: 6.37
<i>Nitrate</i>	9:45 AM	.01 ppm, .01 ppm, .01 ppm		Avg: .01 ppm
<i>Phosphate</i>	9:40 AM	1 ppm X 3		Avg: 1.0 ppm
Fish – seined with DEC fisheries team – 12 ft. net	Number	Name	Length of longest	
<i>Seine 1:</i>	20 1	Spottail Shiner Tesselated Darter	(Total Spottail – 60)	
<i>Seine 2:</i>	40 1	Spottail Shiner Banded Killifish		
Fish Totals	TOAL: 62	Diversity: 3		
Tides	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>	
8:30 AM 10:00 AM 10:30 AM	Rising Rising Rising			No place to put the tide stick.
Currents	<i>Cm/second</i>	<i>Knot</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9:30 AM 9:45 AM 10:00 AM 10:15 AM	9.14 15.24 9.14 11.17	0.178 0.296 0.178 0.217	South South South South	Ebb Ebb Ebb Ebb
Other Observations	Flock of 50 plus Candian Geese landed on the river and rested for a few minutes at 8:30 AM		2 car CSX train on the track behind the group at 10:38	

“Forty-five 9th graders from Tech Valley high became the teachers today to a group of 32 5th graders from Troy’s School 2. Friends were made, lessons were learned, fish were caught. Science and fresh air made for a great day at the Rensselaer Boat Launch”

