

A Day in the Life of the Hudson River 10/20/15 Data

RIVER MILE 123

River Front Park, Coxsackie

Sarah O'Connor, Albany Academy for Girls – 30 students 5th graders, 3 adults

Latitude N 42 degrees 22.2' Longitude W 73 degrees 47.756"

Location: River front park with parking area, boat launch, picnic

Area: Parkign area and cement boat launch with fishing and picnic area

Surrounding Land Use: Forested 15%, Beach 30%, parking area, cement boat launch, picnic area and fishing 55%

Sampling Site: Beach, covered with vegetation, rip rap altered banks

Plants in area:

Water depth:

River Bottom –rocky bottom

<i>ITEM</i>	<i>Group 1</i>	<i>Group 2</i>	<i>Group 3</i>	<i>Comments</i>
<i>Physical</i>	9:30-10:30 AM	10:45-11:45 AM	12:30-1:30 PM	
Air Temperature	9°C	11°C	16°C	
Wind Speed	Beaufort 1 SW	Beaufort 1 SW	Beaufort 0-1 SW	
Cloud Cover				
Weather today	Wet and humid – rain			
Weather recently				
<i>Water Temperature</i>	13°C	10°C	12.5°C	
<i>Turbidity-Long Tube</i>	23.5 cm 56.5 cm <i>Avg – 40 cm</i>	87.5 cm 72.5 90.25 <i>Avg 83 cm</i>	88 cm 59.9* 63 <i>Avg 70.3 cm</i>	*2 boats went by between 1 st and following buckets
<i>Turbidity Secchi</i>	230 cm	220 cm	270 cm	
<i>Chlorophyll</i>	0.6	0.2	0.1	
<i>Chemical</i>				
DO (Hach drop count)	10 ppm*	11 ppm*	10 ppm*	*air bubble in each sample
pH	NR			
Salinity Quantabs LR	43 ppm Cl- 72 ppm TS	43 ppm Cl- 78 ppm TS	50 ppm Cl- 90 ppm TS	
<i>Fish Catch</i>	10-10:45 AM	11:45-1200	1:00-1:45 PM	<i>Comment</i>
	1 Shiner 1 Herring 1 Killifish	2 Shiner 1 Herring 1 baby perch	1 Shiner 2 Butterfish 1 Bay Anchovy	Diversity 5 Totals 11

	Div 3 /Total 3	Div – 3/Total 4	Div 3/Total 4	
<i>Tides –</i>	13 cm start	Falling	Falling	
<i>Currents - Direction</i>	Ebbing	Ebbing	Ebbing	
CORE	Group 1	Group 2	Group 3	
<i>Smell</i>	Fishy Dirt/mud smell	Dirt Fishy	fishy	
<i>Texture</i>	Rocky, smooth, wet chunky	Bumpy Rocky Muddy	Bumpy rocky	
<i>Color</i>	Brown Grey Reddish/orange Dark green	Red/orange Brown Black Gray	Brown Black Gray Red	
<i>Composition</i>	Pebbles Rocks Shells Mud Tiny brick flecks	Dirt Rocks Pebbles	Rocks Mud water	