

**Day in the Life of the Hudson River 10/20/15 Data
RIVER MILE 133**

River Park, Schodack Island, Troy

Dawn Baldwin, Children’s Museum of Science and Technology

Susan Marie Keough, Abram Lansing Elementary–46 students 5th graders, 9 adults

N 42.517994 W -73.759697 (from park website)



Location: Schodack Island State Park, Schodack Landing, Rensselaer County

Area: 1052 acres – park and boat launch area – grassy area with concrete walkway and boat launch

Surrounding Land Use: Forested, Boat launch, playground, parking lot, used for picnics, fishing, open and grassy

Sampling Site: Forested 70%; recreation state park with grass, trees, parking area, picnic area 15%, urban/residential 5%; Industrial/commercial 10%

Shoreline: banks altered, rip rap, bulkhead,

Plants in area: none visible from shore – some water chestnut seeds found onshore

Water depth: 4-6 ft. – water is deeper but we are bucketing from this depth

River Bottom: rocky (sharp drop off beyond bulkhead)

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:35 AM 10:50 AM 11:15AM 12:30 PM	46 °F 48°F 48°F 50°F	7.8°C 8.9°C 8.9°C 10°C	
Wind Speed	10:40 AM Beaufort #2			
Cloud Cover	76-100%			

Weather today	Mainly dry, 2 sets of sprinkles			
Weather recently	Unseasonably cool temps on 10/18 and 10/19			
Water Temperature - Water depth ~1.5 ft.	10:30 AM	51 °F 50.5 °F 51	10.5°C 10.3°C 10.5	AVERAGE 50.8°F 10.4°C
	11:20 AM	49 °F 52 52	9.4°C 11.1 11.1	51 °F 10.5 °C
	12:00 PM	53.5 °F 53 °F 52	12°C 11.7°C 11.1	52.8°F 11.6°C
Water	Slightly choppy	Small wavelets, no foam		
Turbidity – small site tube	11:30 AM	0 JTU 0 10		3.33 JTU average
Chlorophyll	10:40 AM 11:15 AM 11:50 AM	0 0 0	1	
Chemical				
DO (Drop count kit)	10:55 AM	11.5 mg/L*	11°C	105%
pH (ind. Sol.)	10:40AM	7.0 7.0 7.0		7.0 avg.
	11:35 AM	7.0 7.0 7.5		7.16 avg.
Salinity – hydrometer*	11:25 AM	.024 .021 .020	Average .0216 ppt (216 ppm)	*area too fresh for hydrometer
Nitrates	11:42 AM	0.05 ppm <0.05 ppm <0.05 ppm		Average 0.02 ppm
Fish Catch seine – 30 ft. X 4 net, 20 ft. pull – 2 seines	Number Caught	Species	Length	Seine
12:30 PM – 4 fish 1 st pull	1	Striped Bass	8 cm	Div - 3 Total - 4 CPUE 0.65
	1	White Perch	6 cm	
	2	American Shad	5 cm	
12:45 PM – 3 fish 2 nd pull	3	American Shad	5 cm	Div – 1 Total 3 CPUE 0.49

TOTAL DIVERSITY	3	TOTAL CATCH	7	
<i>Tides</i>	<i>Time</i>	<i>Height cm</i>	<i>Rise/Fall/still</i>	<i>Cm/min</i>
	10:00 AM	80 cm	Falling	
	10:33 AM	75 cm	Falling	0.1515
	10:45 AM	71 cm	Falling	0.333
	11:00 AM	65 cm	Falling	0.4
	11:14 AM	58 cm	Falling	05
	11:31 AM	53 cm	Falling	0.2941
	11:48 AM	46 cm	Falling	0.4117
	12:15 PM	38 cm	Falling	0.2962
<i>Currents</i>	<i>Cm/30 sec</i>	<i>Cm/sec</i>	<i>North/South</i>	<i>Flood/Ebb</i>
10:38AM	517.19	17.23 cm	S	Ebb
10:48 AM	772.29	25.74	S	Ebb
11:18 AM	956.48	31.88	S	Ebb
11:34 AM	1380.61	44.35	S	Ebb
11:51 AM	1342.33	44.74	S	Ebb
<i>Traffic</i>	11:00 AM	CNAN NORD – (Algier)	North	Light
<i>10:15 AM</i>	Boat coming out of the river via boat launch – Bridge Inspector			
<i>11:00 AM</i>	Cary Institute for Ecosystem Studies entered river ro so water testing and take someone to repair weather station			
<i>Dawn Comments</i>	As always, the river is my favorite place to be. It is made even better when I am introducing children to the wonders of the world around them. True to form, the 5 th graders from Abram Lansing School in Cohoes were amazed at what they were seeing. Nothing brought this closer to home than the sweet girl who told me she saw a fish jump out of the water. She asked me. “Did you know they could do that? I never knew a fish could come up in the air. It was sparkly and beautiful”. I asked what it looked like, thinking we might be able to identify what she had seen. Her response touched my heart, “It was the most beautiful thing I have ever seen”. This is why A Day in the Life is so important to me. Dawn Baldwin CNSE CMOST			