

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 169.3)
RIVER MILE 133**

River Park, Schodack Island, Troy

**Dawn Baldwin, Children’s Museum of Science and Technology
Michael O’Brien, Carroll Hill School–22 students 4rd graders, 5 adults
N 42.482113470199998 W -72.7763160920000002**

Location: Schodack Island State Park

Area: 1052 acres – park and boat launch area

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

Sampling Site: Forested 40%; recreation state park with grass, trees, parking area, picnic area 40%, boat launch 20% ;

Shoreline: banks altered, rip rap, bulkhead,

Plants in area: minimal amount of plants growing in the riprap, leaves looked like reeds – less than 1%

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

River Bottom: rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:10 AM	54 °F 12.22°C		
	10:40 AM	54°F 12.22°C		
	11:11 AM	55°F 12.77°C		
Wind Speed	10:40 AM Beaufort #1	2.5 kts	NW	
Cloud Cover	Clouds			
Weather today	Sun broke through the clouds briefly around 10:15 AM but clouds moved back in quickly			
Weather recently	Low 60s – Heavy rain on Monday 10/7 late in day. Mix of Sun and clouds Tues & Wed			
<i>Water Temperature - Water depth ~1.5 ft.</i>	10:00 AM	60 °F 60 °F	15.55°C 15.55°C	AVERAGE 60°F 17.55°C
	10:30 AM	59 °F 60	15°C 15.55	59.5 °F 15.28 °C
	11:00 AM	60 °F 60 °F	15.55°C 15.55°C	60°F 17.55°C
<i>Water</i>	Slightly choppy			

<i>Turbidity – small site tube</i>	12:30 PM	10 JTU 10 15		11.67 JTU average
<i>Chlorophyll</i>	10:18 AM	0.1	10:40 AM	0.0
<i>Chemical</i>				
DO (Drop count kit)	11:00 AM	9 mg/L*	15.55°C	90%
pH (ind. Sol.)	11:00 AM	8.0 7.5 7.0		7.8 avg.
Salinity - quantabs	10:15 AM	.005/28 X 3	28 ppm Cl-	51 ppm TS
Nitrates	11:30 AM	1 ppm 0.05 ppm 1 ppm		Average 0.83 ppm
<i>Fish Catch</i> seine – 15 ft. X 4 net, 15 ft. pull & minnow trap (no fish in trap) – 3 seines	<i>Number Caught</i>	<i>Species</i>	<i>Length</i>	<i>Seine</i>
Seine #1 – 1 fish 12:00 PM	1	Shiner	2 inch	
Seine #2 – 2 fish 12:15 PM	2	Shiner	1.5 inch	
Seine #3 – 5 fish 12:30 PM	5	Shiner	2 inch and less	
TOTAL DIVERSITY	1	TOTAL CATCH	8	
CPUE seine #1	Noon	Catch 1	15 ft. pull`	0.014
CPUE seine #2	12:15 PM	Catch 2	15 ft. pull	0.029
CPUE seine #3	12:30 PM	Catch 5	15 ft. pull	0.072
<i>Tides</i>	9:30 AM	57 cm	Falling	
	10:05 AM	42 cm	Falling	0.43 cm/min
	10:17 AM	35 cm	Falling	0.58 cm/min
	10:35 AM	25 cm	Falling	0.55 cm/ min
	11:07 AM	10 cm	Falling	0.46 cm/min
	11:30 AM	Not reachable	Still falling	
<i>Currents</i>	Cm/30 sec	Cm/sec	Knots	North/South
9:50 AM	940	30.1 cm	0.58	South/Ebb
10:30 AM	753	21.8	0.42	South/Ebb
11:10 AM	672	22.4	0.44	South/Ebb
<i>Traffic</i>	10:20 AM	Barge		South/ Light
	10:45 AM	Cargo Ship	Great Reward	North/Light - general cargo
	Several pleasure craft heading in each direction while we			

	were watching
<i>Core</i>	
<i>Comments/Observations</i>	No water chestnut this year. Usually they are abundant. Only seagulls seen-no other birds
<i>Kid's Comments</i>	As we approached the river at Schodack Island State Park Mr. O'Brien's class from Carroll Hill School in Troy was very excited! We had discussed the river meeting the Atlantic and some were surprised that they could not see the ocean from where we were. A bottle floating by was mistaken for a shark and someone knew there were submarines under the water. By days end I was surrounded by 22 very eager Hudson River Scientists who were excited to go home and share what they had learned. With a hug I heard the words "This was the most exciting day of school in my "WHOLE life"!"