

Day in the Life of the Hudson River 10/16/14 Data
(Salt Front RM 65.9)
RIVER MILE 127 – Stuyvesant Landing
Chelsea Benson, Leanne O’Grady - Columbia County Soil & Water Conservation
District
Elizabeth Pagnani, The Alternative Learning Center (TALC) – 3-13 yrs. –
16 students & 10 adults
Latitude 47 N Longitude 73W (topo map)



Location: Sandy point of Stuyvesant Landing, Columbia County. The sandy point is just south of the parking lot.

Area: forested area with narrow beach used for swimming, picnics & camping by permit. Park/Boat launch, sandy beach area on the point

Surrounding Land Use: 95% forested, 5% beach – used for picnics, swimming, campfires, sandy beach and dense woods behind

Sampling Site: Beach area, downed trees

Plants in area: no plants in water

Water depth: waded in approx. 4 ft.

River Bottom –gradual slope, sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	3:45 PM	71.3 °F 21.8°C	4:20 PM	70.3 °F 21.2°C
Wind Speed	Beaufort 0-1	2.6 knots Anemometer	From South	
Cloud Cover	overcast			
Weather today	Rainy ~ 0.5 inches	Clouds below off and at end of sampling ~5:20 PM it was clear and sunny		
Weather last 3 days	Warm, 70s during the day. Humid. Heavy rain the morning of 10/16.			
<i>Water</i>	Calm			
<i>Water Temperature</i>	3:50 PM	65.8°F 18.6 °C		

	4:30 PM	66°F 18.8 °C		
Turbidity – short site tube	4:00 PM	60 JTU		
Chlorophyll	3:15 PM	2		
Chemical				
DO <i>Drop count</i>	3:30 PM	10.0 mg/L	20 ° C	110%
pH <i>pen - *seems high</i>	3:30 PM	9.6* 9.1* 9.2*		Average - 9.3*
Nitrates	3:55 PM	2.0 ppm		
Phosphates	3:50 PM	2.0 ppm		
Alkalinity	3:45 PM	68 ppm 110 ppm		Average 89 ppm
Salinity <i>Quantab Test strip</i>	3:35 PM	.005* readings on wick stick	30 ppm Cl ⁻	54 ppm total salinity
Fish Catch –2 pulls - Seine 40 ft. X 3 ft. Mesh 0.25 inch	Number Caught	Species	Size of largest	2 seines –5 min. pulls-
1st & 2nd seine	26	Spottail shiner	10 cm	
1st seine	1	y-o-y striped bass	8 cm	Diversity 3
1st seine	1	Black Crappie	9 cm	Grand Total 28
Tides	Time	Rising/Falling	Height	Rate of Change
	3:25 PM	Rising	26 cm	
	3:40 PM	Rising	22 cm	.27 cm/min
	3:53 PM	Rising	19 cm	.23 cm/min
	4:15 PM	Rising	11.5 cm	.34 cm/min
Currents – TIME	Cm/60 sec	Cm/sec	KNOTS	Ebb/FI/Still
4:00 PM				Still current
4:20 PM	130 cm/60 sec	1.4 cm/sec	0.3 knots	North flood current
Ships	Time	Type	North/South bound	Light/Load
	3:40 PM	Barge	Northbound	loaded