

Day in the Life of the Hudson River 10/16/14 Data

(Salt Front RM 65.9)

RIVER MILE 97

Sojourner Truth/Ulster Landing State Park, Town of Ulster, Ulster Co.

Latitude 42°N, Longitude 73°56'W

Celia Cuomo, Cary Institute of Ecosystem Studies

Deanna Rizzo, Kingston High School APES 12th graders – 20 students, 4 adults

GPS 42°N - 73°56 'W

Location: Swimming beach, Sojourner Truth/Ulster Landing Park, Town of Ulster, Ulster County

Area: Forested, fishing, swimming beach, has a building with restrooms

Surrounding Land Use: Beach 25%; Forested area 75%; parkland with grass and picnic area

Sampling Site: beach, altered bank with concrete bulkhead, Rip rap, brick pieces in the area, slag in the area, drainage from bulkhead north of site immediately

Plants in water area: no plants

Water depth: N/R

River Bottom: sandy, muddy

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:39 AM	21.9°C 71 °F	11:31 PM	21°C 70°F
	10:17 AM	20°C 69 °F		
Wind Speed	10:42 AM	3 Beaufort	Anemometer 8 mph	SE
Cloud Cover	11:40 AM	Mostly cloudy	51-75%	
Weather today	Rain – light drizzle			
Weather recently	Mostly clear, humid			
<i>Water Temperature</i>	10:09 AM	18.73°C 66°F	<i>Mostly cloudy but calm</i>	
<i>Water Surface</i>	Calm			
<i>Turbidity long sight tube</i>	10:50 AM	55 cm		
<i>Chlorophyll</i>	9:53 AM	0.3		
<i>Chemical</i>				
DO – meter	10:00 AM	*mg/L	18.6°C	% saturated
*not working	10:31 AM	*mg/L	20°C	
	11:37 AM		18.48 °C	

pH -	Time	Color Match Test	Meter Test	Average
	10:01 AM 11:41 AM 10:30 AM	Not read 8 8	7.14 8 7	7.14 8 7.5
Salinity –LR quantabs	9:30 AM 10:04 AM 10:36 AM	40 ppm Cl- 43 ppm Cl- 36 mg/L Cl-	72 ppm TS 78 ppm TS 65 ppm TS	72 ppm total salinity average
Fish Catch 27.5' seine X 3.5 X 1/8 inch mesh	Species	Number	Length of largest	Seine #
9:45 AM #1	11	Spottail Shiner		Diversity 2
	21	Common Shiner		Total 32
10:15 AM #2	0	0		
11:45 AM #3	10	Herring		Diversity 3
	2	Spottail Shiner		Total 13
	1	Striped Bass		
Grand Total	Diversity 4	Total Catch 45		
Tides	Time	Depth	Rate	Falling/Rising
	9:25AM	25 cm	Set	
	9:48 AM	21 cm	4 cm/23 min	Falling
	10:04 AM	19 cm	2 cm/16 min	Falling
	10:18 AM	17.5 cm	1.5 cm/14 min	Falling
	10:28 AM	39 cm		Stick fell and reset
	10:40 AM	37 cm	2 cm/12 min	Falling
	10:50 AM	35 cm	2 cm/10 min	Falling
	11:32 AM	24 cm	11 cm/42 min	Falling
Currents	Time	Cm/Sec	Cm/Sec	N/S E/F/Still
	9:48 AM			Ebb
	9:55 AM			Ebb
	10:28 AM	128 cm/30 sec	4.3 cm/sec	Ebb
	11:32 AM	127 cm/30 sec	4.2 cm/sec	Ebb
Traffic - Commercial				
Time	Name	Color	N/S	Loaded/Light
9:15 AM	Mobile Pearl (Barge)	Red/Black/White	North	Loaded
9:41 AM	Bouchard	Red/Black/White	North	Loaded
11:51 AM	Barge & Tug	Red/Black/White	North	Loaded
Recreational				

11:38 AM	Sailboat	White	South	People flying Canadian flag
<i>Other Items</i>	Bricks on beach, cowheads (water chestnut seeds), wood, seaweed (water celery), shell fragments, bugs on beach, deckweed, leaves, foam, crows			
<i>Core</i>	<i>Length</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>
	11 cm	Mud		Sand