

Day in the Life of the Hudson River 10/16/14 Data
(Salt Front RM 65.9)
RIVER MILE 90
George Freer Memorial Park, Port Ewen, Ulster County
Meg Meisch, Rondout Valley High School
46 students 9th -12th graders, 7 adult helpers (2 SCA)
GPS Latitude 41°907 N Longitude 73°978 W

west

north



east

south

SITE MAP ABOVE

Location: George Freer Memorial Park, Town of Ulster, Ulster, NY

Area: Park space with grassy area, used for picnics, fishing and boating

Surrounding Land Use: 50% urban/residential; 20% forested; 10% industrial/commercial; 25% Beach

Sampling Site: Shore is beach, muddy and rocky along the water, banks have been altered with piping noted entering the river, bits of brick and charcoal on beach. 2 drainage pipes ~2 ft. in diameter

Plants in area: ~10% vegetation

Water depth:

River Bottom : muddy

About the site – Water Milfoil & Water Chestnut in water – each about 10% cover



Turbidity (students facing East)



North

South

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:10AM	17°C 18 17 17.3	62.6 °F 64.4 62.6 63.2	
Wind Speed	10:19 AM 10:46 AM 12:04 PM 12:34 PM	Beaufort 1 Beaufort 2 Beaufort 3 Beaufort 3	1-3 mph 4-7 mph 8-12 mph 8-12 mph	SE
Cloud Cover	Overcast			
Weather today	Rain @ 11:15 AM – ½ inch light rain – cloudy all day, gusty winds stated noon to 12:30 PM			
Weather	Sunny and warm last 3 days, rained heavily last night			

recently				
Water Temperature	9:53 AM	16.7°C		
	10:45 AM	16°C		
	12:21 PM	17 °C		
Water surface	choppy			
Turbidity long Site tube	10:13 AM	59 cm	0	59 cm Avg
	10:35 AM	60 cm	52 cm	56.3 cm
	12:09 PM	56 cm	35 cm	46.3 cm
Chemical				
DO Wards D.O.	Time	Temp °C	DO	% saturated
	10:06 AM	20°C	12 ppm	130%
	10:52 AM	20°C	9	100%
	12:19 PM	20°C	9	100%
	12:49 PM	20°C	10 ppm	105%
pH – indicator solution	9:52 AM	5 7 5		Average 5.7
	10:38 AM	5 7 6		Average 6.0
	12:07 PM	6 7.4 7		Average 6.8
	12:33 PM	6 7.2 6		Average 6.4
Salinity - Quantab	3:00 PM	30 ppm Cl- 30 ppm Cl-	Converts to 54 ppm total salinity	
Fish Catch 35'seine X 4 ft.	Number Caught-	Species -	Largest Size	Diversity & Totals
9:57-1:00 PM 8 pulls	100	American Shad	3.5 inches	Diversity - 3
	4	Shiner	3.25 inches	Totals = 105
	1	Yellow Perch	4.5 inches	
Tides	10:10 AM	46 cm	start	
	10:40 AM	30 cm	falling	0.53cm/min
	12:06 PM	10 cm	Falling	0.67 cm/min
Currents	Time	Cm/30 secs	Cm/sec	Knots – Ebb Flood
	12:19 PM	5.5 cm/30 sec	0.18 cm/sec	0.0035 knots – North/Ebb
ShippingTraffic	11:30 AM	Barge –	RTC 502	Northbound