

**Day in the Life of the Hudson River 10/22/19
HUDSON RIVER SLOOP, CLEARWATER
NEWBURGH BAY, LAUNCHING FROM BEACON DOCK**

RIVER MILE: ~61

Salt Front: ~ RM 53

Circleville Elementary School- Meg Przybocki

42 students 4th grade, 8 adults

Hudson River Sloop Clearwater, Inc.- Amali Knobloch and Clearwater Crew

Latitude 41.50312 N & Longitude – 73.98696 W



Location: Launch site Beacon Dock, Beacon, Dutchess County, NY

Area: Newburgh Bay for a sail

Surrounding Land Use: Hudson River; Surrounding Shoreline is 80% Forested; 12: Industrial/Commercial; 8% Urban/Residential

Sampling Site: Sailing on the Clearwater Sloop

Shoreline: Riprap, covered with vegetation

Water: calm, 36.5 ft

River Bottom: Rocky, muddy

Plants in water: no plants in water area

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	2:23 PM	55 ° F	12 ° C	
	3:19 PM	55 ° F	12 ° C	
<i>Wind Speed:</i>		Beaufort 1	18 mph *gust?	
<i>Weather today</i>				
<i>Weather the past 3 days:</i>	Weather for the last few days started with rain and cold temperatures, then was sunny, clear, and warm (64 ° F). Later it rained.			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
<i>Current-</i>	<i>Time</i>	<i>cm/second</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	2:28 PM		South	Ebb
	2:34 PM		South	Ebb
	2:48 PM		South	Ebb
	3:14 PM		South	Ebb
	3:25 PM		Southwest	Still
<i>Water Temperature</i>	2:31 PM	58, 59, 59, Avg: 58.6 ° F	14, 15, 15, Avg: 15.3 ° C	

	2:45 PM 3:10 PM 3:35 PM	58, 59, 59, Avg: 58.6 ° F 58, 58, 59, Avg: 58.3 ° F 58, 59, 59, Avg: 58.6 ° F	14, 15, 15, Avg: 15.6 ° C 14, 14, 15, Avg: 14.6 ° C 14, 15, 15, Avg: 15.3 ° C	
Turbidity- long sight tube	3:35 PM	>60, >60, >65 Avg: 61 cm		
Chemical				
Salinity- Quantabs	<i>Time</i>	<i>Quantab Units</i>	<i>Total Sal. Ppm</i>	
	2:45 PM	1.2, 1.3, 1.3	Below Detection	
DO – drop count kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	2:59 PM	12 ° C	9 ppm	
pH – indicator solution	2:30 PM	7.5, 7.5, 7.5		
Biological				
Fish	Number	Name	Length of longest	
Trawl at 2:07 PM	1	American Eel	38 cm	
	1	Yellow Bullhead	23 cm	
	4	White Catfish	13 cm	
	30	Hogchoker	11.5 cm	
Fish Totals	TOTAL: 36	Diversity: 4		
Macroinvertebrates	Number	Name	Length of longest	
	1	Blue Crab	Male	
Macroinvertebrate Totals	TOTAL: 1	Diversity: 1		
Sediment Core	Time	Oxid Top	Grain Size	Other Features
	NA			
Boats	Time	Name/Color	North/South	Loaded/Light
Commercial	2:36 PM		North	Light
Commercial	2:51 PM		North	Light
Commercial	3:17 PM		North	Light
Observations				