

Day in the Life of the Hudson River 10/22/20
GARRISON LANDING
RIVER MILE: 51.5
Salt Front: ~ RM 75
 Katie Krueger Hirt, 5 participants
Latitude 41.38207 N & Longitude – 73.94799 W



Seining at Garrison Landing



Looking Northwest at West Point



Checking pH

Location: Garrison Landing Park, Garrison, Putnam County, NY

Area: Waterfront beach area with a pier in front of grassy park primarily used for boating and picnics

Surrounding Land Use: 60% Forested; 20% Urban/Residential; 10% Industrial/Commercial; 10% Other

Sampling Site: Rocky shoreline, pier, shore with bulkhead, riprap, grassy, parking lot

Shoreline: Sandy, muddy

Plants in area: no plants in water area

River Bottom: muddy; sandy

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	8:12 AM	17° C	65.5 ° F	
	12:45 PM	22.4 ° C	72.32 ° F	
	2:15 PM	22.78° C	73 ° F	
<i>Wind Speed:</i>	8:12 AM	2.6 m/s	Northeast	
	12:45 PM	0 m/s		
	2:00 PMM	1.2 m/s	Northeast	
<i>Weather today</i>	No Rain			
<i>Weather past 3 days:</i>	Temperature Highs: Mon 63F, Tues. 72F, Wed 70F. No rain the past 3 days			
<i>Tides-</i>	<i>Low Tide</i>	<i>High Tide</i>	<i>Time of Sampling</i>	<i>Tide</i>
	10:52 AM	4:45 PM	Morning 12:45 PM 3:18 PM	Ebbing Flooding Flooding
<i>Current-</i>	<i>Time</i>	<i>cm/second, Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	Morning 12:45 PM 3:18 PM	18.3 cm/s 26.1 cm/s 13.3 cm/s	South North North	Ebbing Flooding Flooding
<i>Water Temperature-</i>	8:12 AM	18 ° C	64.4 ° F	
	12:30 PM	19 ° C	66.2 ° F	
	2:10 PM	19 ° C	66.2 ° F	
<i>Turbidity- Secchi Disk</i>	8:03 AM	60 cm		
	12:36 PM	38 cm		

	2:06 PM	56 cm		
Chemical				
Salinity- High Range Quantab	8:32 AM 12:39 PM 2:20 PM	2100 ppm Cl- 1634 ppm Cl- 1776 ppm Cl-	3794 ppm total salinity 2952 ppm total salinity 3208 ppm total salinity	
DO – Hach Kit	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	8:23 AM 12:30 PM 2:20 PM	18 ° C 19 ° C 19 ° C	12 ppm 13 ppm 12 ppm	125% 140% 130%
pH- Color Match Kit	8:32 AM 12:22 PM 2:23 PM	7.5 7 8		
Biological				
Fish	Number	Name	Length of longest	Length of smallest
Seine ~12:30 PM Seine ~2:00 PM	3 2 1 2 3 1 1	American shad Atlantic silverside Striped Killifish White perch Striped bass American shad striped killifish	6.4 cm 5 cm 8.5 cm 13.7 cm 9.2 cm 4.2 cm 6.4 cm	6.2 cm 4.9 cm 7.5 cm 4.0 cm
Fish Totals	TOTAL: 13	Diversity: 5		
Macroinvertebrates	Number	Name	Length of longest	Length of smallest
Macroinvertebrate Totals	TOTAL:	Diversity:		
Observations				