

**Snapshot Day 10/12/17 Data**  
**(Salt Front ~RM 65)**  
**RIVER MILE 51.5**  
**Garrison Landing Park**  
**Lisa Mechaley, Hudson Highlands Land Trust**  
**Kevin Keegan, Garrison Union Free School**  
**7<sup>th</sup> & 8<sup>th</sup> graders 20 students, 6 adults**  
**41 22 57 N – 73 36 93 W**



**Location:** Garrison Landing Park, Garrison, Putnam County, NY  
**Area:** Waterfront beach area on front of grassy park primarily used for boating & picnics  
**Surrounding Land Use:** Forested 60%, Urban/residential 20%, Industrial/commercial 10%, Forested 5%, Other 10%,  
**Sampling Site:** Rocky shoreline, Pier, shore with bulkhead, riprap, grassy, parking lot  
**Shoreline:** Sandy, muddy, rocky  
**Plants in area:** 50% trees, 10% bushes, 30% grasses and 10% other plants  
**Water depth:** 3 – 30 cms  
**River Bottom** – muddy/rocky bottom  
**Plants in the water** – none in water,  
**Water** – Calm no waves

<i><b>ITEM</b></i>	<i><b>Time</b></i>	<i><b>Reading 1</b></i>		<i><b>Comments</b></i>
<i><b>Physical</b></i>				
<b>Air Temperature</b>	10:15 AM 11:24AM 12:34 PM	°F	16 °C 18°C 22°C	
<b>Wind Speed</b>	<b>Beaufort #</b>	<b>Knots</b>	<b>Mph</b>	<b>Direction</b>
10:19 AM 11:25 AM 12:35 PM	#1 #1 #1			North- North/West
<b>Cloud Cover</b>	10:12 AM 11:26 AM 12:39 PM	Mostly cloudy Partly Cloudy Clear	51-75% 26-50% <25%	
Weather today	No rain except this AM at 6:00-6:45 AM			
Weather recently	No Unusually temperatures/weather			
<i><b>Water Surface</b></i>	Calm, small waves – early in			

	day brownish water			
<i>Water Temperature</i>	9:53 AM 11:14 AM 12:52 PM	21°C 21°C 21°C	° F	0.5 ft.
<i>Turbidity – secchi disk</i>	10:43 AM	51 cm		
<i>Chemical</i>				
DO -titrator strips color match	11:14 AM 12:52 PM	3 mg/L 2 mg/L	21°C 21°C	21 % 15 %
pH – color match test	<i>Time</i>	<i>Reading</i>		<i>Averages</i>
	12:24 PM	6 7.5		6.75
<i>Salinity – quantabs HR</i>	9:36 AM 11:04 AM	1830 ppm Cl- 1989 ppm Cl-	6.4 units 6.6 units	3306 ppm TS 3592 ppm TS
<i>Tides - Time</i>	<i>Cm start ht</i>	<i>Stop Time</i>	<i>Cm end</i>	<i>Tide</i>
<i>Currents/Time</i>	<i>Cm/30 secs</i>	<i>Cm/Sec</i>	<i>Knots</i>	<i>Ebb/Flood/ Still</i>
<i>Seine – 60 ft. X 94.2 ft. pull – ¼ inch mesh</i>	<b>TIME</b>	<b>SPECIES</b>	<b>CATCH</b>	<b>SIZE/CM</b>
<b>Fish Group #1</b>	10:05 AM	Bay Anchovy	34	6.5 cm
		White Perch	3	15 cm
		Alewife Herring	4	13 cm
		Striped Bass	2	8 cm
		Blueback Herring	6	7.5 cm
<b>Fish</b>		<b>Diversity 5</b>	<b>Totals 49</b>	
<b>Macroinvertebrates</b>		Blue Crab	<b>1</b>	
		<b>Diversity 1</b>	<b>Totals 1</b>	
<b>Fish Group #2</b>	11:00 AM	Blueback Herring	3	6.7 cm
		Alewife	2	14 cm
		Bay Anchovy	51	7 cm
		Striped Bass	2	8 cm
<b>Fish</b>		<b>Diversity 4</b>	<b>Totals 58</b>	
<b>Macroinvertebrates</b>		Blue Crab	1	Male
		<b>Diversity 1</b>	<b>Totals 1</b>	
<b>Fish Group #3</b>	12:15 PM	Blueback Herring	21	6.5 cm
		Banded	3	6.5

		Killifish		
		Hogchokers	2	10
		Bay Anchovy	9	6.5
		White Catfish	1	8
		White Perch	1	6
		Shiner	1	17
		Smallmouth Bass	1	9.5
		Striped Bass	3	6.5
<b>Fish</b>		<b>Diversity 9</b>	<b>Totals 42</b>	
<b>Macroinvertebrates</b>		Blue Crab	3	Male
		<b>Diversity 1</b>	<b>Totals 3</b>	
<b>GRAND TOTAL</b>	DIV	<b>10</b>	<b>COUNT</b>	<b>149</b>
<b>MACRO TOTAL</b>	DIV	<b>1</b>	<b>COUNT</b>	<b>5</b>