

**Snapshot Day 10/4/12 Data**  
**RIVER MILE 53**  
**Garrison Landing Park**  
**Cathy Bakker, Hudson Highlands Land Trust**  
**Kevin Keegan, Garrison Union Free School**  
**7<sup>th</sup> graders 35 students, 6 adults**  
**41°1 N - 73°9 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:** Urban/residential 50%, Forested 5%, Recreation 45%,

**Sampling Site:** Rocky shoreline, Pier, shore with bulkhead, riprap, grassy

**Plants in area:** none

**Water depth:** 39.5 inches

**River Bottom** – muddy/rocky bottom

**Plants in the Area** – willows, grass,

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
<b>Air Temperature</b>	11:35	68 °F		
	Noon	68 °F		
<b>Wind Speed</b>	<b>Beaufort #</b>	<b>Knots</b>	<b>Mph</b>	<b>Direction</b>
	Force #2	4-6	4-7	South
Cloud Cover	cloudy			
Weather today	Overcast, drizzle with rain on and off			
Weather recently	Rain			
<i>Water Surface</i>	calm			
<i>Water Temperature</i>	10:54 AM	21°C	69.8° F	<b>21°C AVG</b> 69.8° F
		21°C	69.8° F	
		21°C	69.8° F	
	12:40 PM	21°C	69.8° F	<b>21°C AVG</b> 69.8° F
		21°C	69.8° F	
		21°C	69.8° F	
<i>Turbidity – secchi</i>	10:18 AM	55 cm 57.1 cm		56.05 cm
<i>Turbidity - secchi</i>	11:10 AM	37 inch 20 12		28.5 inches
<i>Short site tube</i>	11:22 AM	40 JTU		
<i>Chlorophyll</i>	10:20 AM	0.5	12:05 PM	0.5
	12:50 PM	1.0		
<i>Chemical</i>				
DO -	9:57 AM	5 mg/L	21°C	53 %

	11:20 AM	5 mg/L	21°C	53 %
drop count	12:00 PM	9 mg/L	21°C	
	12:53 PM	4 ppm	21°C	42%
pH – color match & litmus paper	<b>Time</b>	<b>Reading</b>		<b>Averages</b>
	9:45 AM	7 7		7 average
	11:12 AM	7 7.5 8		7.5 average
	12:16 PM	7 7.5		7.25 average
<b>Salinity - quantab</b>	11:00 AM	170.5 ppm Cl	308 ppm total salinity	3.8 on strip
	11:35 AM	112 ppm Cl-	202 ppm TS	
<b>Tides</b>	<b>Time</b>	<b>Tide Stick</b>		
	10:55 AM	53 inches	Set stick	
	11:28 AM	93 inches		rising
	11:55 AM	4 ft., 2 inch	Set stick	
	12:25 PM	5 ft., 7 inch	rising	rising
	12:45 PM	48 inches	Set stick	
	1:30 PM	55 inches		rising
<b>Currents/Time</b>	<b>Cm/60 secs</b>	<b>Cm/Sec</b>	<b>Knots</b>	<b>Ebb/Flood/ Still</b>
10:23 AM				Still
11:04 AM	830 cm	13.33 cm		N/Flood
12:00 PM	39 cm	0.65 cm	.	N/Flood
12:22 PM	22.39 cm	0.37 cm		N/Flood
<b>Seine – 60 ft. X 94.2 ft. pull – ¼ inch mesh</b>	<b>TIME</b>	<b>SPECIES</b>	<b>CATCH</b>	<b>SIZE/CM</b>
Seine #1	9:30 AM	Striped Bass	9	8.8 cm
		Atlantic Blue Fish	1	13 cm
		Bay Anchovy	1	5.5 cm
		Crab	4	14.5 cm
Seine #2	10:45 AM	Striped Bass	3	9.1 cm
		White Perch	2	9.7 cm

Seine #3		Striped Bass	2	7.5 cm
		Blue Crab	2	15 cm
Seine #4	12:40 PM	Striped Bass	1	
		White Perch	2	4.5 cm
<b>TOTALS</b>	<b>5</b>	<b>Diversity</b>	<b>27</b>	<b>catch</b>
<b>Traffic</b>				
10:00 AM	Cape	Black/Blue	Southbound	Loaded
10:06 AM	Unknown	Black	Southbound	Light
10:08 AM	RTC502	Blueish	Northbound	Light
10:04 AM	Rarda(es)	White	Northbound	Light
<b><i>Sediment Core – 10:00 AM 20 inch water depth  H2S smell – like waste Oil</i></b>	<b>Total-3.5 inch Top-2 inch Bottom - 1.5 inch</b>	<b>Abundant – Mud Pebbles</b>	<b>Common Sand Gravel</b>	<b>Rare Clay Leaves Wood</b>
<b><i>Sediment Core – 11:35 AM 5.5 inch water depth  H2S smell Oil /grease</i></b>	<b>Total-23 cm Top-3.4 cm loose wet Bottom - 19.6 cm solid compact</b>	<b>Abundant – Clay Mud</b>	<b>Common Leaves</b>	<b>Rare Gravel Wood</b>
<b><i>Sediment Core – 12:15 PM 5 inch water depth  H2S smell</i></b>	<b>Total-24.5 cm Top-4.5 cm loose wet Bottom -20 cm solid compact</b>	<b>Abundant – Clay</b>	<b>Common Mud</b>	<b>Rare Sand Gravel Pebbles Leaves</b>
<b><i>Other Items</i></b>				