

**Snapshot Day 10/14/10 Data
(Salt Front RM 36)
RIVER MILE 53**

Garrison Landing Park

**Charley Wilkinson, Rich Anderson, Eric Lind, Constitution Marsh Audubon
Center & Sanctuary**

Cathy Bakker, Hudson Highlands Land Trust

Kevin Keegan, Garrison Union Free School

7th graders 30 students

41°22.956'N - 73°56.880'W



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

Area: Waterfront beach area on front of park primarily used for boating & picnics

Surrounding Land Use: Urban/residential 50%, Industrial/Commercial 50%

Sampling Site: Pier, shore with bulkhead, riprap, grassy

Plants in area: yes, ~ 10% of the sampling area is covered with plants: Water Milfoil (invasive), Water Celery (native), Water Chestnut (invasive)

Water depth:

River Bottom – muddy/rocky bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>		<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:15 AM	50 °F		Partly cloudy
	10:10 AM	55 °F		Partly Cloudy
	11:12 AM	54°F		Partly Cloudy
	12:03 PM	62°F		Partly Cloudy
Wind Speed	Beaufort #	Knots	Time	Direction
	Force #1.5 to 2.0		11:12 AM	NW
			11:17 AM	E

			11:30 AM	S
			11:45 AM	SE
			12:03 PM	S
Cloud Cover	Partly cloudy in AM	Turned mostly cloudy @ midday		
Weather today	No rain			
Weather recently	Cool, warm, cloudy, foggy			
Water Surface	calm			
Water Temperature	9:23 AM	15°C 59° F	13°C 58° F	14°C 58.5° F
	10:10AM	15°C 60° F	16°C 64° F	15.5°C 62° F
	11:01AM	18°C 64° F	17.5°C 62° F	17.75°C 63° F
	11:40AM	17°C 61° F		
Turbidity - secchi	9:40AM	24 inch 18 12		18 inch
Chlorophyll	9:30AM	1.0	11:10AM	1.5
	9:36 Am	0.5	11:53 AM	1.0
	10:11 AM	1.0		
Chemical				
DO - drop count	10:44AM	8.5 mg/L	15.5°C	84%
pH – color match & litmus paper	Time	indicator solution	litmus paper	Averages
	9:23 AM	7.5, 7.0, 7.0, 7.0 – Avg- 7.125	6.5, 6.5, 7.0, 6.5 - Avg- 6.625	
Salinity - quantab	10:20 AM	28 ppm Cl 28 ppm Cl 28 ppm Cl	35 ppm salinity	
Tides	Time	Tide Stick		
	9:15 AM	33 inches		
	9:53 AM	30.5 in	falling	
	10:10AM	30 in	falling	
	10:38AM	28.5 in	falling	
	11:00AM	29 in	rising	
	11:30AM	30 in	rising	
	11:45AM	31 in	rising	
	12:00PM	32 in	rising	
	12:10PM	33 in	rising	
Currents/Time	Cm/60 secs	Cm/Sec	Knots	Ebb/Flood/Still

9:15 AM	126/sec	2.1 cm/sec	.04 kts	Ebb
10:15 AM	150/sec	2.5 cm/sec	.05 kts.	Ebb
11:10 AM	270/sec	4.5 cm.sec	.09 kts	Ebb
11:52 AM				Still
12:07 AM				Still
<i>Seine – 60 ft. X 94.2 ft. pull – ¼ inch mesh</i>	TIME	SPECIES	CATCH	SIZE
Seine #1	9:30AM	Pumpkin Seed	2	7.2 cm
Total catch 15		Striped Bass	1	9.9 cm
		Spottail Shiner	8	10.7 cm
		Blueback Herring	4	7.2 cm
Seine #2	10:00 AM	American Eel	1	20.2 cm
Total catch 14		Atlantic Blue Crab	2	
		Pumpkinseed Sunfish	2	8.2 cm
		Striped Bass	3	8 cm
		Spottail Shiner	4	12 cm
		White Perch	2	15.5 cm
		Barnacles		
Seine #3	10:57 AM	White Perch	2	12.4 cm
Total catch 10		Blueback Herring	4	9.8 cm
		Striped Bass	1	7.1 cm
		Spottail Shiner	1	7.8 cm
		Pumpkinseed	2	8cm
Grand Total = 39				
<i>Traffic</i>	10:48 AM	Semi large white boat	South	Slightly loaded
	11:06 Am	tug	South	Empty
	11:45 AM	Large boat	South	Full
<i>Sediment Core</i>	Core #	Total Length	Top Length	Bottom Length
<i>9:49 AM</i>	* #1	31 cm	15.5	15.5
	#2	16 cm	10	6
	#3	31 cm		
	#4	19 cm	10	19
	* Description – water depth 2.5 ft. – south of Marina, 10 ft. from shoreline. No H2S smell. Abundant Clay and Mud. Rare pebbles,			
<i>Other Items</i>	This is a beautiful site. There are Weeping Willows, Mulberry Trees, a grassy area with a small gazebo, sculptures and benches. A peaceful yet active location with boating and trains and housing.			