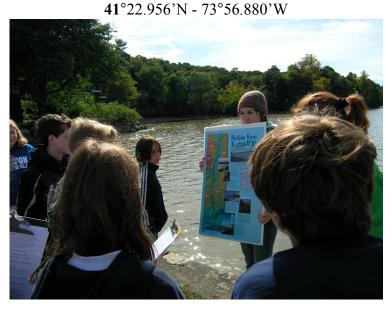
Snapshot Day 10/8/09 Data (Salt Front RM 60.3) RIVER MILE 53

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 31students



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

Area: Waterfront beach area on front of park

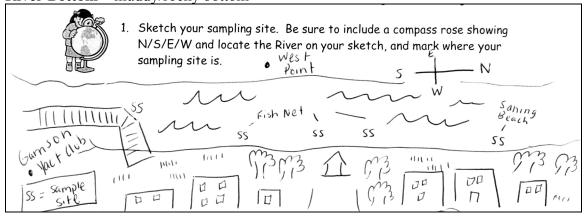
Surrounding Land Use: Urban/residential 30%, Forested 10%, Beach 10%,

Industrial/Commercial 50%

Sampling Site: Pier, shore with bulkhead, debris in area **Plants in area:** yes – less than half – water celery 10%

Water depth: 2-15 ft.

River Bottom – muddy/rocky bottom



ITEM	Time	Reading 1		Comments		
Physical						
Air Temperature	9:34 AM	55 °F				
	10:34 AM	62/60 °F				
	11:37 AM	64°F				
Wind Speed	Beaufort #	Knots	MPH	Direction		
	Force #3	7-10	6-12	NNW		
Cloud Cover	40% cloud	No rain				
	cover					
Weather today	dry					
Weather recently	Extreme wind yesterday, rainstorms in past few days					
Water Surface	Choppy	,,,				
Water	9:18 AM	18°C				
Temperature		64.4° F				
	9:30 AM	19°C				
	7.00	66.2° F				
	10:20AM	19°C				
	10.2071111	66.2° F				
	11:35AM	20°C				
	11.33AW	68° F				
Turbidity - secchi	10:47AM	23 inch		61.98 cm		
	10.171111	24		(24.4 inch)		
		23				
Chlorophyll	9:30AM	1.0	11:35AM	0.5		
Chemical						
DO - drop count	11:34AM	8 mg/L	20°C	70%		
pH - meter	11:54AM	7.0 indicator solution		6.75 avg		
	11.0 11111	6.5 litmus paper		0.70 4.78		
Phosphate	10:15	0.mg/L				
	AM	<i>5</i>				
Nitrate	10:15AM	0.0 ppm				
. 2-3						
Alkalinity	10:15AM	40 ppm				
Salinity - quantab	9:30 AM	33 ppm Cl	41.25 ppm			
	10:30AM	46 ppm Cl	57.5 ppm			
	11:30AM	108 ppm Cl	135.0 ppm			
Tides	Time	Tide Stick	FF			
- Times	9:16 AM	12.7 cm				
	9:43 AM	27.94 cm	rising	0.56		
	10:17AM	50.80 cm	rising	0.67		
	10:42AM	60.96 cm	rising	0.41		
	11:23AM	78.74 cm	rising	0.43		

	12:01PM	93.98 cm	rising	0.40
			- 8	
Currents	9:23AM	17.24 cm/sec	South	0.34 knots Ebb
*May have been the result of wind on the surface combating the current	10:24AM			*Still
	11:24AM	33.33 cm/sec	North	0.65 knots Flood
Seine – 60 ft. X 94.2 ft. pull – ¼ inch mesh	TIME	SPECIES	CATCH	SIZE
Minnow trap	9:15AM	Pumpkin Seed	9	125 cm
<u>.</u>		Spottail Shiner	7	115 cm
Total catch 85		Banded Killifish	2	9 cm
length of pull 94.2 ft. CPUE 4.65		White Perch	40	12 cm
		American Eel	1	17 cm
		Striped Bass	6	75 cm
		Tesselated Darter	1	55 cm
		Atlantic Blue Crab	18	10 cm point to point
		Naked Goby	1	2 cm
	10:23AM	Pumpkin Seed	2	11 cm
Total catch 37		Spottail Shiner	12	6 cm
length of pull 94.2 ft. CPUE 2.02		White Perch	23	17 cm
		Atlantic Blue Crab	3	4 cm
	11:30AM	Largemouth Bass	1	12 cm
Total catch 65		Bay Anchovy	5	7.7 cm
length of pull 94.2 ft. CPUE 3.56		Alewife	2	7 cm
		Summer Flounder	1	16.9 cm
		Spottail Shiner	6	7.3 cm
		Golden Shiner	1	15.4 cm
		White Perch	40	15 cm
		Striped Bass	3	7 cm
		Banded Killifish	1	10 cm
		Pumpkinseed	5	12.4 cm
		Atlantic Blue Crab (M)	9	
Traffic	10:30AM	Barge/Equipment	South	Full
		Regular MTA Train behind site		

Sediment Core	8 inch	Very moist, slimy	6.5 inch top	1.5 inch		
Seatment Core	o men	sediment. Compact	layer	second layer		
		layer very thin	3	3		
Other Items	Bald Eagle	Bald Eagle, A. crows, chipping and house sparrows, ring-billed				
	gulls, yello	gulls, yellow-bellied sapsucker, yellow-rumped warbler				
Journal	The sevent	The seventh grade students from Garrison Union Free School				
		stood in the sun along the riverside, sleeves pulled over their				
	hands, this cool and breezy morning. The temperature was soon					
	forgotten when a summer flounder dropped out of the net and					
	-	splashed into our tray. He startled the small, dark naked goby we				
	had placed	had placed in a nearby jar just moments before.				