

**Snapshot Day 10/7/08 Data
(Salt Front RM 63.4)**

RIVER MILE 18

**Vicki Garufi - Beczak Environmental Education Center
Harry Hall - Saunders Trade & Technical High School
(28 students) 10th -12th grade**

Latitude – N 40.9381 Longitude – W -73.90289

Location: Seining beach, Beczak Center, Yonkers in Westchester County

Area: Riverfront property used for fishing, boats, seining, field trips and education programs

Surrounding Land Use: Urban/residential 10%, Forested 30%, Beach 50%, industrial/commercial 15%;

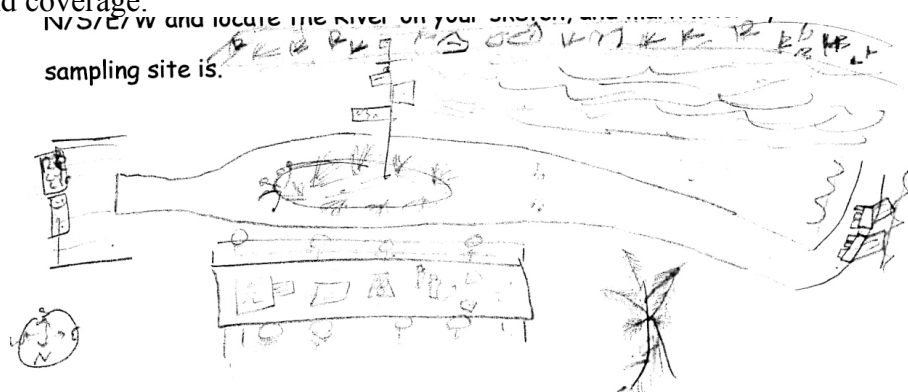
Sampling Site: beach, marsh area covered with vegetation, sandy area, banks altered, large riprap on shoreline, collected wood/debris in area –

Plants in area: no plants in the water

Water depth: 3-4 feet

River Bottom – muddy (sticky), rocky

Plants – Goldenrod 20% mugwort 25% shrubs 23% *Spartina alterniflora* in marsh
Note plants are allowing beautiful scenery and provide oxygen. It gives insects like bees feed and coverage.



<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	9:27 AM	14°C 57.2°F	9:42 AM	12°C 53.6°F
	9:56 AM	16°C 60.8°F	10:04	16°C 60.8°F
	10:32 AM	14°C 57.2°F	10:43 AM	17°C 62.6°F
	11:04 AM	16°C 60.8°F	11:14 AM	18°C 64.4°F
Wind Speed – NOTE Same all	2 Beaufort	6-11 km/hr	4-6 knots	North

morning				
Cloud Cover	clear			
Weather today				
Weather recently				
Water calm	choppy			
Water Temperature	9:20 AM	9 °C 48.2 °F 9 °C 48.2 °F 9 °C 48.2 °F	9:30 AM	9 °C 48.2 °F 9 °C 48.2 °F 9 °C 48.2 °F
	9:50 AM	15 °C 59°F 14 °C 57.2°F 14.5°C 58.1°F	10:00 AM	15 °C 59°F 15 °C 59°F 15°C 59°F
	10:35 AM	16°C 60.8°F 16°C 60.8°F 16°C 60.8°F	10:45 AM	16°C 60.8°F 16°C 60.8°F 16°C 60.8°F
	11:00 AM	17°C 62.6°F 17°C 62.6°F 17°C 62.6°F	11:10 AM	17°C 62.6°F 17°C 62.6°F 17°C 62.6°F
Turbidity – sight tube – NOTE used in area where group was seining – so stirred up the mud	AM	31 cm 44 cm 10 cm 5.5 cm 11 cm 13 cm 11.5 cm 11 cm		17.125 cm average
	11:04	32.3 cm		
Chlorophyll	9:30 AM 10:20 AM	0.1 0.6		
Chemical				
DO (chemette)	9:30 AM 9:40 AM	9°C 9°C	8 mg/L 11 mg/L	70% saturated 100% saturated saturated
Sampled north end of marsh	10:20 AM 10:20 AM	15°C 15°C	11 mg/L 10 mg/L	110% saturated saturated 100% saturated saturated
	10:40 AM 10:40 AM	16°C 16°C	10 mg/L 9.5 mg/L	105% saturated saturated 95% saturated
	11:20 AM	17°C	8 mg/L	85% saturated

	11:20 AM 11:10 AM	17°C 17°C	8 mg/L 8 mg/L	85% saturated 85% saturated
pH – color match	9:30 AM	7.8 7.8 7.7	9:40 AM	7.5 7.5 7.5
	10:00 AM	7.7 7.7 7.7	10:10 AM	7.7 7.7 7.7
	10:35 AM	7.8 7.7 7.8	10:40 AM	7.8 7.8 7.8
	11:00 AM	7.7 7.7 7.7	11:20 AM	8.0 7.8 8.0
Salinity - hydrometer	9:20AM	6 ppt 6 ppt 5 ppt	9:30 AM	6 ppt 6 ppt 6 ppt
	10:00 AM	6 ppt 6 ppt 6 ppt	10:20 AM	6 ppt 6 ppt 6 ppt
	10:30 AM	6 ppt 6 ppt 6 ppt	10:40 AM	6 ppt 6 ppt 6 ppt
	11:00 AM	6 ppt 6 ppt 6 ppt	11:10 AM	6 ppt 6 ppt 6 ppt
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>Size of largest</i>	<i>Type</i>
Seine net 30 feet X 4 ft., 1.4 inch mesh 34 ft. pull	1	Naked Goby	4 cm	Fish Catch
9:30 -11:30 AM	1	Atlantic Silverside	8 cm	
	22	White perch	23 cm	
	1	Striped Bass		
	3	Northern Pipefish	18.5 cm	
	1	Herring, Shad	10 cm	
		Blue Crab	Macroinvert	
		Grass Shrimp		
		Sand Shrimp		
		Soft shell clam		
<i>Tides</i>	9:21 AM	18 cm		Pair #1

	9:52 AM	16 cm		Pair #2
	10:04 AM	17 cm	rising	RESULT
	10:26 AM	23 cm		Pair #3
	10:41 AM	27 cm	rising	RESULT
	11:00 AM	31 cm		Pair #4
	11:12 AM	33 cm	rising	RESULT
Currents				
	9:25 AM.		Still	* area where current taken may have caused the high number of still readings
	9:38 AM		ebb	
	9:55 AM		Still	
	10:04 AM		ebb	
	10:29 AM		Still	
	10:42 AM		ebb	
	11:03 AM		still	
	11:12 AM		flood	
Core Sample	Entire Length	Grain Size	Smell	Description
Group 1 River Sample (came out as much)	10 cm	mix	Smells more than the marsh	dark color Worm inside
Group 2 Marsh sample	9 cm	Fine grain	No smell	Dark with layers of green
Traffic	10:00 AM	red/black	southbound	full
	9:15 AM	white	southbound	
Other Items	Hummingbirds, minnows, crab, not lots of people fishing, train and factory workers			