Snapshot Day 10/8/09 Data (Salt Front RM 60.3) RIVER MILE 58

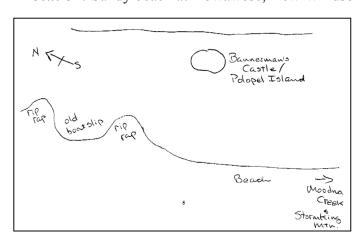
Kowawese Unique Area, Plum Point, New Windsor, Orange County, NY
Pam Golben & Judy Onufer, Museum of the Hudson Highlands
Bernadette Kleister, Bishop Dunn Memorial School - 7th grade – 34 students
GPS Latitude 41°27'44"N Longitude 74°00'41"W







Location: Sandy beach at Kowawese, New Windsor, Orange County, Public Shore,



Picnic Area

Area: Sandy beach with scattered tidal debris, forested above beach to South, grass and trees and picnic area to North. Rip Rap, broken wood in boat launch area. Parking above beach area. No swimming. People fish and launch boats here. Surrounding Land Use: Forested 25%, beach 50%, Urban/residential 25%

Sampling Site: sandy beach (cove), vegetation 500 ft. south of

sampling site, Much wood washed up on beach.

Plants in area: < 25% of sampling area - 75% of plants Water celery – sporadic not dense; 25% - other vegetation.

Other trees in area – mostly wooded – oak, tulip, poplar and maple.

Water depth: <1 meter; EXTREMELY LOW TIDE

River Bottom –Mostly mud/sand with a few larger rocks. Due to low tide we were able to walk out to weed beds offshore.

ITEM	Time	Reading 1	Reading 2	Comments		
Physical						
Air Temperature	10:44 AM	20°C				
		64°F				
	11:17 AM	19°C				
		63°F				
Wind Speed	2 knot	N		1		
Cloud Cover	Partly cloudy					
Weather today	No rain,					
Weather recently	rained previous day					
Water Surface	calm					
Water	10:45 AM	63.7° F				
Temperature		17.6°C				
	11:15 AM	61.7° F				
		16.5°C				
	12:30 PM	63.1° F				
		17.3°C				
Water Calm	yes					
Turbidity	11:15 AM	55 JTU				
sight tube						
Chlorophyll	10:30 AM	0.1				
Chemical						
DO (drop kit)	10:30 AM	11.0 mg/L	17.6°C	112%		
pH (litmus paper)	10:45 AM	7.0				
	11:15 AM	7.0				
	12:30 PM	7.0				
Salinity	10:30 AM	0.009 %	Average			
Quantabs – low		0.010 %	61 ppm Cl	76.5 ppm		
range strips –		0.010 %	11	salinity		
Fish Catch	Number	Species	CPUE	Seine		
40 ft. seine X	Caught	_		2 seines		
~200 ft. pull						
	1	American Eel	7 inch			
	2	Banded	4 inch			
		Killifish				
	15	Blue crab	1.5-3 inch			
	7	4 spine	1-2 inch			
	-	Stickleback	2: 1			
	5	Pumpkinseed	3 inch			
		Sunfish	2.2 : 1			
	6	Striped Bass	2-3 inches			
	4	White Perch	3 inches			

	12	Tesselated	2-3.5 inches			
		Darter				
Seine	Time	Total Catch	Length Pull	CPUE		
1	9:30 AM	25	200			
2	9:45 AM	25	200			
Tides	Time	Height in cm	Rate of	Rising/falling		
			change			
	10:35 AM	17.5 cm	0.55 cm/min	Rising		
	10:53 AM	27.5 cm	0.55 cm/min	Rising		
	11:25 AM	40.0 cm	0.38 cm/min	Rising		
	11:47 AM	55.0 cm	1.47 cm/min	Rising		
	12:45 PM	70.0 cm	0.26 cm/min	Rising		
Currents	10:41 AM	Flood				
	11:30 AM	Flood				
Core	7 inches	5 inch top –	2 inch lower	Color dark		
		sand layer	layer - clay	gray, little or		
				no organics,		
				slight metallic		
				smell		
Traffic	9:45 AM	Barge	Southbound	Full		
	11:15 AM	Speedboat	North	2 passengers		
·	12:45 PM	Paddleboat	South	Full		
	12:56 PM	Sailboat	South			
Other		Saw an adult Bald Eagle come down off the hillside,				
	-	catch a fish, and then go back to its feeding perchat low tide				
	between Mo	between Moodna Creek outlet and Sloop Hill				