

Snapshot Day 10/2/07 Data
(Salt Front RM 78.2)
RIVER MILE 58
Kowawese Unique Area, Plum Point
GPS Latitude 41°28'N Longitude 74°1'W
Pam Golben & Judy Onufer, Museum of the Hudson Highlands
Bernadette Kleister, Bishop Dunn Memorial School - 8th grade – 22 students

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

Area: Sandy beach surrounded by grass and trees and picnic area. Parking above beach area. No swimming. People fish and launch boats here.

Surrounding Land Use: Forested 25%, beach 75%

Sampling Site: sandy beach (cove), vegetation 500 ft. south of sampling site, Much wood washed up on beach.

Plants in area: no plants growing in the water at the beach area

Washed up on shore: water chestnut (seeds and some displaced stems);
water celery (scattered and floating)

Water depth: drops off to 1.0 to 1.5 meters~ 15-20 meters from shore

River Bottom – pebble/gravel/sand with occasional larger rock

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:30 AM	16°C 60°F		
	11:40 AM	23°C 74°F		
Wind Speed	4-6 knots	South	Wind increased to 7-20 knots by 11:30 AM	
Cloud Cover	none			
Weather today	Clear and warm			
Weather recently	Unusually warm for October – very dry			
<i>Water Temperature</i>	9:30 AM	72° F 22.2°C		
	10:20 AM	73° F 22.8°C		
	11:40 AM	74° F 23.4°C		
	12:30 PM	71° F 21.9°C		
<i>Water Calm</i>	yes			
<i>Turbidity sight tube</i>	10:30 AM	60 JTU 70 JTU 40 JTU		56.7JTU
<i>Chlorophyll</i>	10:30	2.0		

<i>Chemical</i>				
DO (drop kit)	10:30 AM	8.0 mg/L	73°F	94%
pH (litmus paper)& indicator solution checked	10:30 AM	7.0 7.0 7.5		7.2 average
Phosphate				
Nitrate				
Alkalinity				
Salinity Quantabs – low range strips – test results exceeded value	10:30 AM	>0.100 mg/L >0.100 mg/L >0.100 mg/L		
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine</i> 25 ft net/ 20 ft pull
25 ft. seine X 75 ft. pulled	1	Tesselated Darter		<i>Seine #1</i> <i>10:00 AM – (1 pull)</i> <i>(17 total)</i>
	8	Striped Bass	3 inch	
	2	Blue crab	3 & 6 inch	
	1	pipefish	5 inch	
	5	herring	2 inch	
	17	Striped Bass	3 inches	<i>Seine #2 –</i>
	30	Herring	2 inches	<i>11:00 AM</i>
	1	Unidentified baby fish		<i>(2 pulls)</i> <i>(49 total)</i>
	1	Blue crab	3 inches	
	6	Striped Bass	4 inches	<i>Seine #3</i>
	3	Herring	3 inches	<i>- 11:45 AM</i>
1	9	Anchovies	1.5 inches	<i>(2 pulls)</i> <i>(20 total)</i>
	1	Banded killi	1 inch	
	1	Blue crab	0.5 inches	
85 ft. seine net	80	Blueback herring	yoy	<i>Seine #4</i> <i>- 12:30 PM</i>
	40	Striped Bass	yoy	<i>(4 pulls)</i> <i>(175 total)</i>
	20	White perch	adult	
	15	Atlantic Silversides	adult	
	12	White perch	Yoy	
	8	Stopttail shiner	adult	
Tom readings	Salinity 4.2 ppt	23°C (73°F)		

<i>Tides</i>	9:30 AM	15.3 cm		
	9:45 AM	10 cm	Falling	
	10:30 AM	7.5 cm	Falling	
	11:40 AM	3 cm	Rising	(low tide 11:10 AM)
<i>Currents</i>			Beach is in a cove – no currents recorded	
<i>Core</i>	~15 cm total	Sandy at top, gradually blends to silt & mud, no distinct bands		
<i>Traffic</i>				
<i>Other Items</i>				