

Snapshot Day 10/2/07Data
(Salt Front RM 78.2)
RIVER MILE 61E
Long Dock, Beacon, City of Beacon, Dutchess County
Latitude 41°50' Longitude 73°98'
Rebecca Johnson, NYS DEC Hudson River Estuary Program
Susan Hereth, Scenic Hudson
Linda Houlihan, Beacon 5th grade – 75 students

Location: Long Dock in Beacon, Dutchess County NY

Area: B

Surrounding Land Use: Forested 20%, 80% field now – prior industrial site

Sampling Site: rocky beach, banks altered (metal sculpture), shoreline rip rap,

Plants in water: none

Water depth:

Bottom Surface: shallow, rocky near shore and muddy further out

Tidal Shallows Plants	water celery washed up on shore	water chestnut covers the bay in the summer – not at this time lots of seeds washed up on shore
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<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	10:05am	20°C 68 °F		
	10:57am	21°C 71 °F		
	11:37 am	21°C 71 °F		
	12:40 pm	22°C 72 °F		
	1:22 pm	22°C 72 °F		
	1:59 pm	22°C 72 °F		
Wind Speed	9:30am	0 knots	calm	
	11:50 AM	7-16 knots	Gentle to moderate breeze	
	1:15 PM	4-6 knots	Light breeze	
Cloud Cover	9 AM	11:50 AM		Water choppy

Cloud Cover	9 AM overcast	11:50 AM clouds burned off		Water choppy
Weather today	Mostly cloudy and overcast BUT at 11:50 sun came out			
Weather recently	Dry seasonal temperatures			
<i>water calm</i>	9:30 AM - calm		11:30 AM choppy	
<i>Water Temperature</i>	Time	Test one	Test two	AVERAGE
	10:12AM	72° F 22°C	71° F 21°C	71.5° F 21.5°C
	10:45AM	72° F 24°C	72° F 24°C	72° F 24°C
	12:45PM	72° F 22°C	70° F 21°C	71° F 21.5°C
	1:27 PM	72° F 23°C	77° F 25°C	74.5° F 24°C
<i>Turbidity</i>				
<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (drop kit)	10:15am	8.0 mg/L	72°F	90%
	10:50am	9.0 mg/L	72°F	95%
	11:50am	8.0 mg/L 9.0 mg/L	72°F 72°F	90% 95%
	12:50pm	9.0 mg/L 9.0 mg/L	72°F 70°F	95%
	1:27 pm	10.0 mg/L 10.0 mg/L	72°F	
	2:00 PM	9.0 mg/L	72°F	
pH – <i>color match(Hach)</i>	9:58 AM	8.0 8.0 8.0		Average 8.0
	11:30 AM	8.0 8.0 8.0		8.0
	12:30 PM	8.5 8.0 8.5		8.33
	1:45 PM	8.0		8.0
<i>Litmus Paper</i>	10:42am			7.7
	12:30 pm			8.3

Phosphate				
Nitrate				
Alkalinity	12:45 PM	120 ppm		
Salinity – test strips %NaCl	10:03 am	1,424 ppm 1,424 ppm 1,529 ppm		1.5 ppt
	11:00 am	1,198 ppm 1,424 ppm 1,207 ppm		1.3 ppt
	11:45 am	1,307 ppm 1,307 ppm		1.3 ppt
	12:40 pm	1,307 ppm 1,424 ppm		1.3 ppt
	1:29 pm	1,307 ppm		1.3 ppt
	2:00 pm	1,307 ppm 1,424 ppm		1.3 ppt
<i>Fish Catch</i>	<i>Number Caught</i>	<i>Species</i>	<i>CPUE</i>	<i>Seine – 1 pull 80 ft.</i>
30 ft. seine	5	Alewife		
	1	Blueback Herring		
	4	Golden Shiner		
	1	Pumpkinseed		
	5	Spottail shiner		
	12	Striped bass		
	22	White perch		
	1	Yellow perch		
	1	Largemouth bass		
	2	Gizzard shad		
	1	Zebra mussel		
Caught with fishing pole	2	Large carp		By Bill Green
	1	Brown bullhead		
<i>Tides</i>	8:45AM			
	10:00AM		Falling	
	10:50AM		Falling	
	11:34AM		Rising	
	12:35PM		Rising	
	1:19 PM		Rising	
	1:56 PM		Rising	

<i>Currents</i>	10:00 am		ebb	
	10:50 am		ebb	
	11:36 am		flood	
	12:38 am		flood	
	1:20 pm		flood	
	1:58 pm		flood	
<i>Traffic</i>	11:50 am	Tug pushing Barge	North	Box cars & crane Black and red – no name
	1:39 pm	yacht		white
	2:18 pm	Barge- “liberty”	north	black
<i>Other Items</i>		Lots of geese		
		Carp jumping		
		osprey		