Snapshot Day 10/18/11 Data (Salt Front RM 35.7) RIVER MILE 61.1 E Beacon Waterfront Train Station Park, City of Beacon, Dutchess County Nancy Rypkema, Christine O'Shea, and 6 adult helpers/teachers - Valley Central Middle School, 7th & 8th graders (76 students) Latitude 41°30' 22" N - Longitude 73°59' 07" W



Location: Waterfront Park, Beacon, Dutchess County NY

Area: Park area near the Beacon train station - grassy lawns, forested around edges, parking lot to the side. Children's play area

Surrounding Land Use: Park/grassy 60%, Urban/residential 10%; Forested 20%; shoreline/beach 10%

Student assessment: There is a bridge, transit station (train) and trees,

Sampling Site: beach, covered in vegetation, banks altered, rip rap

Plants in area of sampling: oak trees 10%; willow trees 10%; Grass 60%; maple trees 20%

Water depth:

Bottom Surface: sandy, rocky bottom

ITEM	Time	Reading 1	Reading	Comments	
Physical					
Air	11AM –	16.2°C	60°F		
Temperature	12:45 PM	20.1	69		
		18.2	64.5		
Wind Speed	11 AM	Beaufort	SW	4-7 km/hr; 4-6 kts	
		#2			
Cloud Cover	Mostly				
	cloudy				
Weather	Overcast				
today					
Weather	Dry for past 3 days – unusually wet fall				

recently				
water calm	Choppy			
Water	Time	Test one		
Temperature				
Taken in 1	11:00 -	15.8°C	60 °F	
ft. of water	12:45 PM			
<u> </u>		16.8°C	62	
		16.3°C	61	
Turbidity	Time	Secchi	Turbidity	Average
		Disk	Tube	_
	10:40 AM	27 cm	16.8 cm	Secchi disc
				27.3 cm
	10:46 AM	35 cm	17.2 cm	Turbidity Tube
				18.25 cm
	11:48 AM	20 cm	21 cm	
Secchi disk	Noon	13 inches	2:00 PM	13 inch
in inches				
Short site	11:25 AM	60 JTU	Noon	80 JTU
tube				
Chlorophyll	10:22 AM	0.0	11:13 AM	0.3
	10:44	0.0	11:36 AM	0.7
<i>cı</i>		DO	11:53 AM	0.7
Chemical	Time	DO	Temp	% saturation
DO	10:43 AM	9ppm	15C	90%
(drop kit)	12:07 PM	8	15C	80%
	1:00 PM	7	15C	70%
pH – <i>meter</i>	10:35 AM 10:51 AM	8:24/6.5 8.26		*6.5 reading seems to be an
meier	10.31 AM 11:23 AM	8:20		error – huge
	12:38 AM	8:43		variance from
	12.50 / 101	0.45		others & very low
Salinity –	Time	Quantab	Chloride	Total Salinity
Samity	1 1110	reading	reading	conversion
	10:42 AM	1.0 X 2	$\leq 29 \text{ ppm}$	\leq 52.39 ppm
	10:54 AM	1.2 X 2	Cl-	salinity
	11:03 AM	1.2 X 2		
	11:23 AM	1.2 X 2		
Fish Catch	Number	Species	CPUE	MACROs
seine 9X4feet	Caught	_		
noon	8	Shiner	6 cm	
	1	White	25 cm	
		Perch		
Tides	Time	Tide Stick	Flood/Ebb Still	Rate of change
	10:03AM	20 cm		
	10:30AM	20 cm	Still	

	10:45AM	20 cm	Still	0 cm/42 mins		
	11:15AM	35cm	Flood	15 cm/30 mins		
	11:41AM	47 cm	Flood	12 cm/26 mins		
	12:53PM	75 cm	Flood	28 cm/72 mins		
Currents	Time	Cm/60 secs	Cm/sec	knots		
	10:13AM	200 cm/60	3.3 cm/sec	0.06 kts		
	10:33AM	100 cm/60	1.4 cm/sec	0.03 kts		
	10:53AM	100 cm/60	1.4 cm/sec	0.03 kts		
	11:05AM	100 cm/60	1.4 c/sec	0.03 kts		
Core	Length	Rare	Common	Abundant		
	12 cm -			Large grain size		
	9 cm top			Plant material		
	4 cm					
	bottom					
Shipping	None					
	noted					
Observation :	<i>servation:</i> There is a blue heron sitting on a rock in the water.					

Observation: There is a blue heron sitting on a rock in the water. Canadian geese swimming, and seagulls flying. "The sky is cloudy and it may rain today. If it rained hard enough the water level would rise." (anonymous) "On this field trip there have been many cool things that I've learned that I didn't already know. I learned that seahorses can actually come from the Atlantic Ocean and live in the Hudson River. I also learned that moss always grows toward the north." (Dominic)