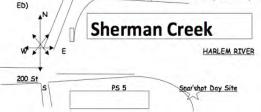
Day in the Life of the Hudson River 10/4/12 Data HARLEM RIVER MILE 13b Sherman Cove Park saltmarsh flats, Harlem River Obed Fulcar, Friends of Sherman Creek MS319 Middle School/Children's Aid Society Afterschool program 6<sup>th</sup>/7th 8 students, 1 adult – afterschool sampling start time 3:30 PM GPS Latitude <u>657452.5 E (aprox)</u> Longitude <u>766785.8 N (aprox)</u>







water's edge. 1. Sketch your sampling site. Be sure to include a compass rose showing N/S/E/W and locate the River on your sketch, and mark where your samplingsite is. Academy Street (historically blocked by Con



Location: Saltmarsh/mudflats at Sherman Cove Park next to a side road/school building, adjacent to Swindler Cove next to the north end of Harlem River Drive, Manhattan – a forever wild area. Surrounding Land Use: Parking lot - 50% urban/residential, 20% forested, 5% beach, 5% Industrial/commercial, 5% other

**Sampling Site:** Beach area, covered with vegetation - Sampled in salt marsh covered with phragmites on one side and a mudflat with gravel on the shore **Plants in area:** 50% of site is invasive Phragmites, 5% native spartina, 10% native milkweed, 35% other, and some oak trees

**River Bottom**: muddy bottom



Rocky shore, sand mixed with lumps of coal, mudflats. Shore covered with rocks on one side and mud on the other. Expect rain increased turbidity, and affected DO and salinity.

ITEM	Time	Reading 1	Reading 2	Comments
Physical		1		
Air Temperature				
Wind Speed				
Cloud Cover	overcast			
Weather today	Clouds	Rain by end		
Weather recently	Rain last few days			
Water				
Water Temperature	5:50 PM	20.9°C	12 inch water depth	
Turbidity – Short site tube	5:50 PM	100 JTUs		Water was very turbid from rain and upcoming high tide
Chlorophyll				
Chemical				
DO – LaMotte greenforce kit –	5:55 PM	0mg/L	Temp. 20.9°C	0% sat.
( <b>note</b> :this is a low resolution sample kit)				
pH –	5:50 PM	6		
Salinity	Not read			
Phosphate		2.0 ppm		
Nitrate		0.5 ppm		
Ammonia		0 ppm		
Fish Catch *see	Number	Species		Size
journaling below	Caught			
	6	Silversides	3 inches	
	1	Winter	3 inches	juvenile
		Flounder		
	4-5	Jellyfish		
	1	Blue Crab	2 inch	Juvenile
		Fiddler Crab		
	Few	Shrimp		
Total Catch	14	Diversity	6	
Tides	3:45 PM	Tide was low		
		exposing		
		large areas of		
		mudflat (see		
Commente	N-4 . 1	above photo)		
Currents	Not read			

Cona Sampla	Unable to co	llast due to				
Core Sample	Unable to collect due to					
Sediments	weather & th	weather & tide				
Commercial Traffic	5:00 PM	Circle Line	White/Red	Northbound – fully loaded		
	5:10 PM	Coast guard	Orange/White	Southbound/ light		
	5:20 PM	Tugboat/barg e	Black	Southbound/ empty		
<b>Recreational Traffic</b>	4:50 PM	Jet Skis	White	Northbound		
	5:30 PM	Rowing shell	White	Southbound		
Other Items	We observed	We observed upon arriving a juvenile crown night heron				
	the mudflats	by low tide (pho				
E-Coli Bacteria Test:	We tested the water quality of the site by using the LaMotte Greenforce tablet reagents. We followed the protocol by pouring the sample to 10mm in the glass vial containing the tablet, and mixing it until the tablet dissolved. We stored the sample upright, covered from any light source for 24 hours, and when we compared the color (yellow with foam in the top layer) to the ID card the sample showed positive for the presence of E-coli. Friends of Sherman Creek have tested the site for the past 4 years, and the last 5 tests have come out positive. Several NYCDEP (NYC Dept of Environmental Protection) CSOs (Combined Sewer Overflow) that drains and discharge raw sewage into the Sherman Creek and the Harlem River seriously impact the Harlem River with this level of pollution.					
Journaling		g, even as the rain hapshot Day 2012	Dots in sketch sl We were able to nets and conduc Macro invertebr About 4 of the b their waders wit from Chris, Stev They had a blast going on 6pm an n started to fall. I 2!	cast our seine t the Fish & ate activity. oys donned h assistance re and Laura. c, and it was nd they wanted		