Snapshot Day 10/18/11 (Salt Front RM 35.7) RIVER MILE 17 Mt. St. Vincent College Campus, NYC Pat Grove – Mt. St. Vincent College – ~ 5 undergraduate students Jeannine Brown, Frederick Douglass Academy, 20 students 10th-12th graders Latitude 40°91282 N Longitude 73°91150 W



Location: Waterfront of Mt. St. Vincent's College

Area: Forested

Surrounding Land Use: Urban/residential 40%; Forested 50%, Beach 5%; industrial/commercial (RR tracks) 5%

Sampling Site: large riprap on shoreline, drainage pipes in area, beach area, covered in vegetation

Plants in water of sampling area: no plants in the water **Water depth**: 38-52 cm

River Bottom – sandy, muddy, rocky

ITEM	Time	Reading 1		Reading 2	Comments		
Physical							
Air Temperature	10:15 AM	61°F					
	11:30 AM	64°F					
Wind Speed	Beaufort #1	*230 degrees			1.4 kts		
-		SW	-				
Cloud Cover	Partly cloudy						
Weather today	Cool and clear						
Weather recently	Colder than normal overnight						
Water	10:30 AM	17°C	18 °C	18 °C	17.6 °C AVG		
Temperature		62.6°F	64.4°F	64.4°F	63.8°F		
	11:30 AM	18 °C	18 °C	19 °C	18.3 °C		

		64.4°F	64.4°F	66.2°C	65°F
	12:30 PM	20 °C	20 °C	20 °C	20 °C
		68°F	68°F	68°F	68°F
Water surface:	calm				
Turbidity	10:30 AM	20 cm			20 cm
(Secchi)		20 cm			
	20 cm				
Long site tube	10:30 AM	27.6 cm		276 NTU	
Chlorophyll	12:15PM	2.0			
Chemical					
DO LaMotte kit 7414	10:00 AM	7.2 mg/L		Temp.17° C	70% saturated
pH – LaMotte kit	11:45 AM	7.5		7.4 avg.	
5858		7.3			
		7.4			
Phosphate	1:07 PM	1.0 ppm			
Nitrate	12:55 PM	1.0 ppm			
Alkalinity	1:00 PM	68 ppm		68 ppm	
Salinity -	12:00 PM	2 ppt		2 ppt	
refractometer		2 ppt 2 ppt			
Fish Catch	Number	Species		CPUE	Minnow
	Caught	<u> </u>	<u> </u>		Traps
seine – 30 ft. net	1	Striped Bass			
Macros		Mud crab			
		Shore shrimp			
Tides	10:42 AM	33 cm			
(high tide 1:35	10:46 AM	40 cm		Should be	
PM per the	11:00 AM	38 cm		rising all	
charts)	11:00 AM	45 cm		sampling	
The recordings				time	
are confusing –	11:15 AM	43 cm			
some with same	11:30 AM	35 cm			
time and different	11:30 AM	72 cm			
measures and	11:45 AM	55 cm			
seem to go up	11:45 AM	51 cm			
and down?					
Currents					
Core					
Traffic	11:15 AM	Cargo		Northbound	Light
	11:30 AM	Cargo		Anchored	Loaded/ Containers

	11:24 AM	Garbage Ship 4002	Northbound	Loaded Garbage
	12:45 PM	Speedboat	Southbound	
Other observations				

* To learn more about how oceanographers code wind direction go to the c.o.o.l. project http://www.coolclassroom.org/pdfs/understandingwinddirection.pdf