

**Snapshot Day 10/7/08 Data  
(Salt Front RM 63.4)  
RIVER MILE 17**

**Mt. St. Vincent College Campus, NYC  
Pat Grove – Mt. St. Vincent College – undergraduate students 30 sophomores  
Latitude 40°91282 N/ Longitude 73°91150 W**



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

**Area:** Forested

**Surrounding Land Use:** Urban/residential 20%; Forested 45%, 25% industrial/commercial (RR tracks); when tide is low 10% beach. Beach, shoreline riprap

**Sampling Site:** large riprap on shoreline, drainage pipes in area

**Plants in water of sampling area:** 1% - Water celery 0.005% of this

**Water depth:** 38.5 cm

**River Bottom** – sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	12:40 PM	18°C		
Wind Speed	2-3 knots	SW		
Cloud Cover	clear			
Weather today	Cool and clear			
Weather recently	Colder than normal overnight			
<i>Water Temperature</i>	12:37 PM	20 °C 68°C	19 °C 66.2°C	19.5 °C 67.1°C
	1:00 PM	18 °C 64.4°C	19 °C 66.2°C	18.5 °C 65.3°C
	1:06 PM	18 °C 64.4°C	18.5 °C 65.3°C	18.25 °C 64.9°C
<b>Water surface:</b>	choppy			
<i>Turbidity</i>	12:30	62 cm		>62 cm

(Secchi)		62 cm 63 cm		
<b>Chlorophyll</b>	12:50 PM	0.2		
<b>Chemical</b>				
DO LaMotte kit 7414	1:05 PM	7.8 mg/L	Temp. 19.5° C	82% saturated
pH – LaMotte kit 5858	12:43 PM	8 8 8	8 avg.	
Phosphate	12:20 PM	15 12 15	14 ppm	
Nitrate	1:15 PM	0 ppm 1.0 ppm 0 ppm	0.3 ppm	
Alkalinity	12:45 PM	70 ppm 60 ppm 60 ppm	63 ppm	
Salinity - refractometer	1:00 PM	8 ppt 8 ppt 7 ppt	7.6 ppt	
<b>Fish Catch</b>	<b>Number Caught</b>	<b>Species</b>	<b>CPUE</b>	<b>Minnow Traps</b>
seine – 30 ft. net (DEC)	2	Asian shore crab		1 shrimp
	4	Atlantic Silverside		
	1	Shore shrimp		
	1	Blue crab		
	1	Rock Crab		
<b>Tides</b>	12:48 noon	34 cm	Rising	
2:25 PM High Tide per charts	12:57 PM	37 cm	Rising	
	1:07 PM	40cm	Rising	
	1:13 PM	42 cm	Rising	
	1:20 PM	42 cm	still	
<b>Currents</b>	1700 cm/60 secs	28.3cm/sec	North/Flood	0.566 knots
	1700 cm/60 secs	28.3cm/sec	North/Flood	0.566 knots
	1650 cm/60 secs	27.5cm/sec	North/Flood	0.55 knots
	1650 cm/60	27.5cm/sec	North/Flood	0.55 knots

	secs			
<b><i>Core</i></b>	12:36 PM	5 cm no layers evident	<b>Abundant</b> Sand Gravel Pebbles	
<b><i>Traffic</i></b>	12:05 PM	Tugboat-	Northbound	
	12:07 PM	Recreational	Southbound	
	12:36 PM	Recreational	Southbound	
	12:57 PM	Karmar	Southbound	
	1:07 PM	Sailboat w/CA flag		
<b><i>Other observations</i></b>	Unidentified warbler hopping on rocks			