

Day in the Life of the Hudson River 10/16/18 Data

PLUM POINT PARK

New Windsor, NY

RIVER MILE: 58.1

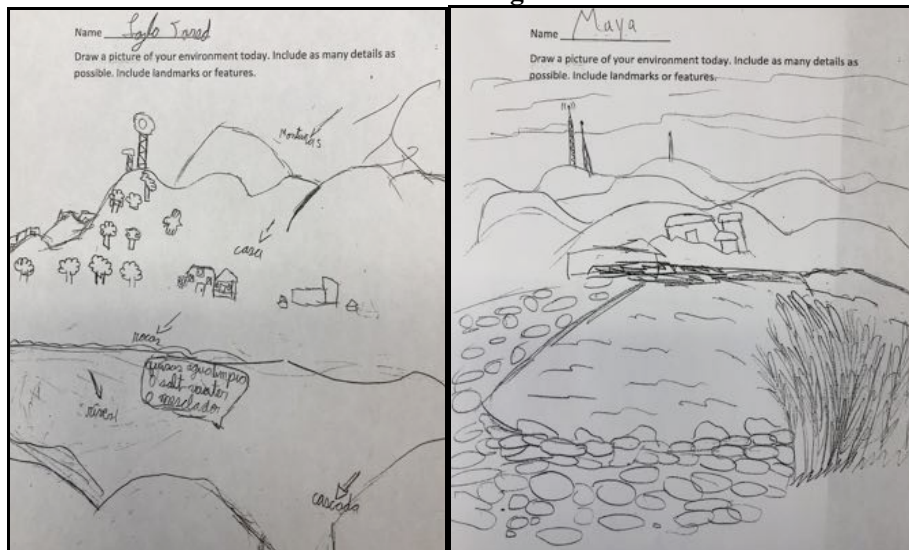
Salt Front: ~RM 24

Vails Gate STEAM Academy-

44 students 5th grade, 10 adults

Janet DeStefano, Vails Gate Academy

Latitude 41.471 N & Longitude - 74.016 W



Location: Northern sandy beach at Plum Point, New Windsor, Orange County

Area: Public sandy beach bordered by forested area and parking lot.

Area used for picnicking, fishing and kayaking.

Surrounding Land Use: 25% forested, 75% beach

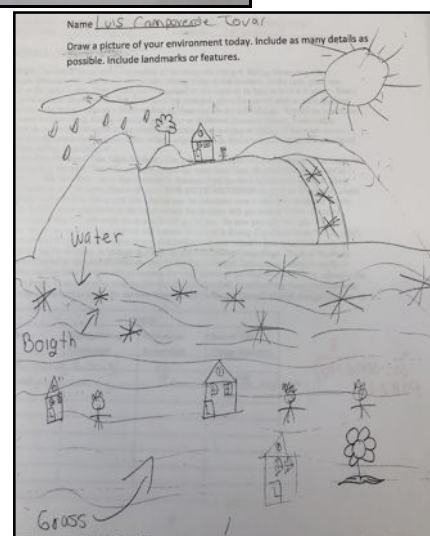
Sampling Site: Sandy beach (cove)

Shoreline: Beach area, riprap in area of sampling site, debris (broken concrete and docking) in area.

Water Depth: 2 feet

Plants in area: 10% of area is covered with plants in the water (water chestnut)

River Bottom description: rocky, sandy



ITEM	Time	Reading		Comments
Physical				
Air Temperature	9:59 AM 11:10 AM	11 °C 12 °C	51.8 °F 53.6 °F	
Wind Speed: anemometer		Beaufort force: 1	1.9 knots	
Weather today	No rain, partly cloudy			
Weather recently				
	9:30 AM 1:00 PM	Falling Rising	0 8	- .038
Water Temperature	9:59 AM 10:20 AM 10:40 AM	17 ° C 17 ° C 17 ° C	62 °F 62 °F 62 °F	

	11:02 AM	18 ° C	64 ° F	
<i>Turbidity - long sight tube</i>	10-11 AM	77 cm, 44 cm, 61 cm Average: 60.7 cm		
<i>Chemical</i>				
<i>Salinity- Low Range Quantabs</i>	10:20 AM – 3 readings	1.0 quantab units 1.8 1.4*	Below detection 45 ppm Cl- *31 ppm Cl-	*used as avg. 56 ppm total salinity
<i>DO – Tabs</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
		11 ° C	11	100%
<i>pH – Indicator solution</i>	9:52 AM 10:32 AM 10:50 AM	7.2 7.2 7		
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
<i>Seine- 48” x 20 ‘</i>	6 2 20 21 1 5	Tessellated Darter Striped Bass Spottail Shiner White Perch Bay Anchovy Yellow Perch	4 cm 7cm 6cm 7cm 5cm 6cm	<i>Seine #1: Total Catch 20, CPUE: 6</i> <i>Seine #2: Total Catch 25, CPUE 4.9</i>
Fish Totals	TOTAL: 55	Diversity: 6		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	1 1	Blue Crab Mud Crab	1cm 3cm	
Macroinvertebrate Totals	TOTAL: 2	Diversity: 2		
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9:55 AM 10:16 AM 10:38 AM 11:02 AM	0.7 3.75 0.59 0.95	0.014 0.073 0.011 0.018	South South South South	Ebb Ebb Ebb Ebb
<i>Core</i>	<i>Description</i>	<i>Rare</i>	<i>Common</i>	<i>Abundant</i>
<i>Taken from close to the shore, no rocks in the samd</i>	11.5 cm long smells earthy	Clay Hair or feather Small pieces of coal		Sand – dark brown and coal grey in color
<i>Boat Traffic– none</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded/Light</i>