

Day in the Life of the Hudson River 10/22/19

NORRIE POINT, STAATSBURG

RIVER MILE: 84.5

Salt Front: ~ RM 53

Millbrook School- Ava Goodale

9 students 11-12th grade, 1 teacher

NYS DEC- Maija Niemisto

Latitude 41.83242 N & Longitude – 73.94129 W

Location: Norrie Point Environmental Center, Norrie Point, Dutchess County, NY

Area: East side of the Hudson, far from the main channel in a protected cove. Substantial paved areas nearby, large environmental center building adjacent to the water. Shallow cove facing south onto the Hudson River, bordered by riprap embankment, dock

Surrounding Land Use: 90% Forested; 10% Residential

Sampling Site: Front banks altered with riprap, cove is very muddy with some riprap and the west side is rocky

Shoreline: beach area, shore with bulkhead, shoreline riprap, banks altered for DEC building, riprap along the railroad tracks, piping entering river area

River Bottom: 50% muddy, 50% rocky

Plants in water: Water chestnuts and water celery remains

Water: calm

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
Physical				
<i>Air Temperature</i>	2:15 PM	57 ° F	14 ° C	
	2:18 PM	50 ° F	10 ° C	
<i>Wind Speed:</i>	2:18 PM	Beaufort 1	2.5 mph	South
<i>Weather today</i>	Overcast (100%), no rain			
<i>Weather the past 3 days:</i>	Rained yesterday			
<i>Tides- tide stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (in)</i>	<i>Rate of Tidal Change (cm/min)</i>
	2:17 PM	Ebbing	33 inch	LT 2:58 PM
<i>Current-</i>	<i>Time</i>	<i>Speed</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
	NR			
<i>Water Temperature</i>	2:15 PM	50 ° F	10 ° C	
	2:17 PM	50 ° F	10 ° C	
<i>Turbidity- long sight tube</i>	2:17 PM	95 cm		
Chemical				
<i>Salinity-</i>	<i>Time</i>	<i>Chloride ppm</i>	<i>Total Sal. ppm</i>	
<i>Hydrometer</i>	2:17 PM		Below Detection with this instrument	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	2:17 PM	10 ° C	10	90%
	2:35 PM	10 ° C	10	90%
<i>pH –</i>	2:15 PM	7.5		
	2:17 PM	8		
Biological				
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
Seine 30'	183	Spottail Shiner		
	47	Pumpkin Seed		
	17	Blue Gill		
	1	Small mouth bass		
	1	Tessellate darter		
	4	Banded Killifish		

	3	Goldfish		
	4	Common Carp		
Fish Totals	TOTAL: 260	Diversity: 8		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	3	Blue Crab		
Macroinvertebrate Totals	TOTAL: 3	Diversity: 1		
<i>Sediment Core</i>	<i>Time</i>	<i>Oxid Top</i>	<i>Grain Size</i>	<i>Other Features</i>
NR				
Boats	Time	Name/Color	North/South	Loaded/Light
NR				
Observations				