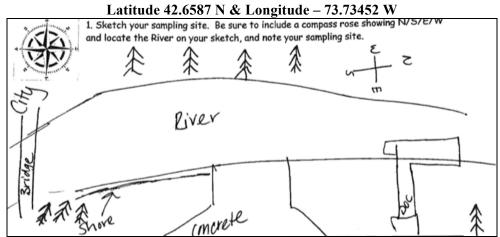
Day in the Life of the Hudson River 10/22/19 RENSSELAER BOAT LAUNCH **RIVER MILE: 146**

Salt Front: ~ *RM 53*

Tech Valley High- Ashley Phillips 39 students 9th grade, 6 adults CMOST- Dawn Baldwin



Location: Rensselaer Boat Launch, Rensselaer County, NY

Area: Boat launch with small beach area, wooded, landscaped, adjacent to urban, residential, and industrial

Surrounding Land Use: 30% Urban/Residential, 30% Industrial/Commercial, 15% Park, 15% Beach, 10%

Forested

Sampling Site: Concrete boat launch with beach, removable dock Shoreline: Beach with sandy, small rocks, concrete boat launch

Water: 2-4 ft, ripples River Bottom: muddy

Plants in water: no plants in water area

ITEM	Time	Reading	Comments			
Physical						
Air Temperature	9:06 AM	52 ° F	11.11 ° C			
_	10:02 AM	53 ° F	11.67 ° C			
Wind Speed:		Beaufort 1	Southwest			
Weather today	Overcast, no rain					
Weather past 3 days:	Fairly consistent on the 19 th -21 st Mid 50's with some sun. Breezy on 10/21					
Tides- tide stick	Time	Rising, Falling, Unchanged	Water Height (cm)	Rate of Tidal Change (cm/min)		
	8:05 AM	NA	45	NA		
	9:06 AM	Rising	53	0.157		
	9:25 AM	Rising	60	0.368		
	9:56 AM	Rising	70	0.323		
Current-	Time	cm/second, Knots	North/South	Ebb/Flood/Still		
In the earlier tests, there	9:06 AM	6.10 cm/s, .12 knots	South	Ebb		
was a lot of push to the	9:38 Am	5.04 cm/s, .10 knots	South	Ebb		
north, but eventually	10:02 AM	11.18 cm/s, .22 knots	South	Ebb		
travelled south	10:10 AM	32.5 cm/s, .63 knots	South	Ebb		
Water Temperature-	9:40 AM	52.8° F, 48.2° F, 53.42° F	11.6° C, 9° C, 11.9 ° C			
		Avg: 51.5 ° F	Avg: 10.83 ° C			
	9:08 AM	52.88° F, 50° F, 52.34 ° F	11.6 ° C,10 ° C, 11.3 ° C			
		Avg: 51.74 ° F	Avg: 10.967 ° C			
	10:09 AM	50° F, 51.62° F, 52.16° F	10 ° C, 10.9 ° C, 11.2 ° C			

		Avg: 51.26 ° F	Avg: 10.7 ° C			
Turbidity-	NR					
		Chemical				
Salinity- Refractometer	10:00 AM	Below Detection for this instrument				
DO – drop count	Time	Тетр	ppm DO	% saturation		
•	9:25 AM	11.6 ° C	10	90%		
pH – pH strip	9:51 AM	6.5, 6.4, 6.6, Avg: 6.5				
Nitrates-	10:09 AM	0ppm, 0.1ppm, 0.4ppm, Avg: . 17 ppm				
Phosphates	9:10 AM	0ppm, 0ppm, 0ppm				
Alkalinity	9:30 AM	50 ppm, 50 ppm, 52 ppm, Avg: 50.67 ppm				
Biological						
Fish	Number	Name	Length of longest			
Seine 10 pulls		No fish				
Fish Totals	TOTAL: 0	Diversity: 0				
Macroinvertebrates	Number	Name	Length of longest			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
Sediment Core	Time	Oxid Top	Grain Size	Other Features		
NR		•				
Boats	Time	Name/Color	North/South	Loaded/Light		
Recreational	9:11 AM		South			
Observations	9:30 AM "On a cloudy morning at the Rensselaer boat launch, students from Tech Valley high School were discussing why DITL was important. A 9 th grader summed it up by saying we can look at climate change markers and help scientists prove that it is real."					