

Day in the Life of the Hudson River 10/14/21

Corning Preserve, Albany

RIVER MILE: 145.5

Salt Front: ~ 49

Leah Akins & River Run Community Montessori School 1st-4th grade

8 students & 6 adults

Latitude 42.64906 N & Longitude – 73.74696 W



Location: Floating dock at riverfront park

Area: A path along the beach with rising forested hills, trees along both sides, plants along shore, bridges and boats. Dock on the shore, 2-3 pipes going into the water. Large bridge for trains over water. Highway elevated.

Surrounding Land Use: 70% Industrial/Commercial; 25% Urban/Residential, 5% Park- used for fishing, jogging, boating

Sampling Site: vegetation, banks altered, shoreline with riprap- floating dock, concrete bulkhead, pier and boat launch

Shoreline: Cottonwood and maple trees

Plants in area: No plants in water area.

River Bottom description: muddy, rocky

Water: Calm

*NR = not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	10:30 AM	22° C	71.6° F	
<i>Wind Speed:</i>	NR	<i>Anemometer</i> NR	<i>Beaufort</i> NR	<i>Direction</i> NR
<i>Weather today</i>	10:00 AM	26-50% partly cloudy	No Rain	
<i>Weather the past 3 days:</i>	NR			
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>
	9:40 AM-12:00 PM	Rising		0 405 cm
<i>Current- NR</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>
				<i>Ebb/Flood/Still</i>
<i>Water Temperature-</i>	10:50 AM 11:15AM	18° C 17° C		62.6° F
<i>Turbidity- short sight tube</i>	12:30 PM	15 JTU		
<i>Chemical</i>				
<i>Standardized Salinity- Low Range Quantabs</i>	12:10 PM	1.2 QT reading		Below Detection
<i>DO – Hach drop kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	11:15 AM	17° C	10 ppm	100%
<i>pH – meter</i>	11:15 AM	7.3 7.2		
<i>Nitrates- Lamotte</i>	12:30 PM	1 ppm		

<i>Phosphates- Chemets</i>	12:30 PM	<1 ppm			
<i>Alkalinity –LaMotte titration</i>	12:30 PM	73.3 ppm			
Biological					
<i>Fish - seined</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	3	Spottail Shinner	3 cm	2.5 cm	
	13	Pumpkinseed	19 cm	5 cm	
	16	Bluegill	25 cm	7 cm	
Fish Totals	TOTAL: 32	Diversity: 3			
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Length of smallest</i>	
	NR	NR			
Macroinvertebrate Totals	TOTAL:	Diversity:			
Sediment Core					
Length	H2S smell	Oxid Top	Oil	Grain Size	Other Features
NR					
Boats					
	Time	Name	Color	North/Southbound	Light/Loaded
Commercial	AM		White	North	Light
	AM		White	South	Light