

Day in the Life of the Hudson River 10/05/2023

Corning Preserve, Albany, NY

RIVER MILE: 145.4

Salt Front: ~RM 52

Berkshire Waldorf High School-Elizabeth Orenstein

DEC Accessibility Program & RiverRun Montessori Home School – Sarah Lansaw

15 students 1-6th grade, 5 adults

NYSDEC-Leah Atkins, Sean Maddem and staff – 4 adults

20 students, 9th-12th grade, 2 adults

Latitude 42.64906°N & Longitude –73.74696°W

Location: Corning Preserve, Albany, NY

Surrounding Land Use: 50% Urban/Residential, 50% Industrial/Commercial

Sampling Site: Pier, altered banks with rip raps and concrete bulkhead, pipe entering the water, covered in vegetation and grassy, parking lot

Shoreline: 2% Sandy, 8% Muddy & 90% Rocky

Water: Mostly Choppy

River Bottom: Muddy & Rocky

Plants in the water: 5% Water Chestnut, 10% Duckweed

*NR = Not read/recorded

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>	
<i>Physical</i>					
<i>Air Temperature</i>	1:07 PM	25°C	77°F		
	1:15 PM	25.6°C	78°F		
	1:20 PM	26.7°C	80°F		
<i>Wind Speed:</i>	1:07 PM	<i>Anemometer</i> 7-10 mph	<i>Beaufort</i>	<i>Direction</i> South	
<i>Weather today</i>	1:10 PM	<25% Cloud Cover	No Rain		
<i>Weather the past 3 days:</i>	NR				
<i>Tides- Tide Stick</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>		<i>Height (cm)</i>	
	1:00 PM	-		-	
	1:03 PM	Falling		79 cm	
	2:04 PM	Falling		59.5 cm	
<i>Current-</i>	<i>Time</i>	<i>Cm/sec</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Slack</i>
	10:03 AM	2.32	0.045		Ebb
	10:57 AM	3.23			-
	11:25 AM	2.7			Ebb
<i>Water Temperature-</i>	10:02 AM	20°C	68°F		
	11:00 AM	20°C	68°F		
	1:26 PM	20°C	68°F		
<i>Turbidity- Long Sight Tube (120 cm)</i>	10:15 AM	83 cm			
<i>Chemical</i>					
<i>Student Salinity- Low Range Quantabs</i>	12:20 PM	<0.005 ppm NaCl		Read as below detection	Read as below detection
	1:26 PM	<0.005 ppm NaCl			
	1:44 PM	<0.005 ppm NaCl			
<i>Standardized Salinity - Low Range Quantabs</i>	2:00 PM	30 ppm Cl-		54 ppm Total Salinity	<i>QT reading 1.4</i>
<i>DO – Drop Count Kit</i>	<i>Time</i>	<i>Temp</i>		<i>ppm DO</i>	<i>% saturation</i>
	9:56 AM	20°C		9.5 ppm	105%

	10:31 AM 10:42 AM	20°C 20°C	8.5 ppm 10 ppm	92% 107%		
<i>pH – Color Match Test Kit</i>	10:26 AM 11:39 AM	7.25 7.4				
Biological						
<i>Fish-Seine</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	<i>Notes</i>		
10:00-11:00 AM	4 12 1 2 1 12 5	Pumpkinseed Banded Killifish Brook Silverside American Eel Bluegill Spottail Shiner Common Shiner	8.7 cm 6.2 cm 7.5 cm 7.5 cm 5 cm 5 cm	DEC Fisheries brought a pike, smallmouth bass and brown bullhead		
Fish Totals	TOTAL: 37	Diversity: 7				
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>			
Macroinvertebrate Totals	TOTAL: 0	Diversity: 0				
<i>Sediment Core -NR</i>	<i>Time</i>	<i>Oxid Top</i>	<i>H₂S Smell</i>	<i>Oil</i>	<i>Grain Size</i>	<i>Other Features</i>

Boats					
Commercial/ Recreational	Time	Name	Color	Southbound/ Northbound	Light/Loaded
Commercial	11:15 AM	Urmom	Green	Northbound	Light
Commercial	12:15 PM	Never Gonna Give Up	Purple	Southbound	Loaded
Recreational	10:01 AM	Boat	White		
Recreational	1:27 PM	Snowtatcon	White	Southbound	Light