

Day in the Life of the Hudson River 10/16/18 Data
HUDSON SHORES PARK, WATERVLEIT
 Albany County, NY
RIVER MILE: 152
Salt Front: ~RM 24

North Colonie CSD Learning Enrichment Program-
49 students 5th grade, 4 adults
Amy Parks & Stacey Shepard, North Colonie
Latitude 41.471 N & Longitude - 74.016 W



Location: Hudson Shores Park, Watervleit, Albany County, NY

Area: Rowing dock at park right on the river's edge

Surrounding Land Use: Fishing launch, dock, parking lot, rocky, trees, bushes

Sampling Site: 10% Beach at low tide; 70% Park/Parking area; 20% Planted/forested; (across the river) 100% Industrial/Commercial. Noisy from the highway.

Shoreline: Rocky and muddy, vegetation, riprap

Water Depth: 8+ feet, calm

Plants in area: No plants in water area

River Bottom description: sand/mud, rocky

Other: Geese, turkey vultures



<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<i>Physical</i>				
<i>Air Temperature</i>	9:19 AM	15 °C	59	
	9:55 AM	15 °C	59	
	10:19 AM	15 °C	59	
	10:55 AM	13 °C	55.4	
	11:38 AM	13 °C	55.4	
	12:03 PM	12 °C	53.6	
	12:29 PM	14 °C	57.2	
	12:50 PM	20 °C	68	
<i>Wind Speed: Beaufort Force</i>	9:36 AM	#1		
	9:55 AM	#4		
	10:25 AM	#2		

	11:00 AM 11:47 AM 12:05 PM 12:29 PM 12:52 PM	#3 #2 #2 #1 #1		
<i>Weather today</i>	Partly to mostly cloudy (56-75%)			
<i>Weather recently</i>	0.5" rain			
<i>Water Temperature</i>				
<i>Turbidity - long sight tube</i>	9:15 AM 9:45 AM 10:14 AM 10:50 AM 11:30 AM 11:50 AM 12:20 PM 12:41 PM	80 cm, 81.5 cm, 96 cm = 86 cm 74 cm, 80.8 cm, 86 cm = 81 cm 80 cm, 82 cm, 90 cm = 84 cm 75 cm, 74 cm = 74.5 cm 72.8 cm, 69.2 cm, 78.9 cm = 73.6 cm 72 cm, 72 cm, 72 cm = 72 cm 76 cm, 90 cm, 94 cm = 86.7 cm 84 cm, 89 cm = 86.5 cm		
<i>Chemical</i>				
<i>Salinity- Low Range Quantabs</i>	10:15 AM 12:27 PM	<i>Quantab Unites</i> 1.2 1.2	<i>Chloride</i> 32 ppm Cl ⁻ 32 ppm Cl ⁻	<i>Total Salinity</i> 57.9 ppm 57.9 ppm
<i>DO – drop count kit</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:18 AM 9:49 AM 10:17 AM 10:47 AM 11:34 AM 12:03 PM 12:28 PM 12:52 PM	14 °C 13 °C 13 °C 15 °C 14 °C 12 °C 13 °C 13 °C	7 6 8 9 11 9 8 9	69 % 55 % 75 % 85 % 110 % 84 % 75 % 85 %
<i>pH – color match test kit</i>	9:31 AM 10:02 AM 10:30 AM 10:57 AM 11:48 AM 12:13 PM 12:40 PM	7.5 7.5 7.3 7.4 7.5 6.9 7.5		
<i>Fish</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest (cm)</i>	
<i>Seine- 12 ‘</i>	1	Banded Killifish	2 cm	
<i>Fish Totals</i>	TOTAL: 1	Diversity: 1		
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Change (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
<i>Note: measured from the edge of the water to tape on the ground</i> HT in Troy was noted as 11:22 AM	8:45 AM 9:16 AM 10:03 AM 10:56 AM 11:36 AM 12:16 PM 12:27 PM 12:49 PM	- Unchanged Falling Rising Falling Falling Falling Falling	100 100 120 *92 356 468 510 550	- 0 0.43 *mistake or wave? 2.8 3.8

				1.8
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9:27 AM	24.7	0.48	South	Ebb
9:50 AM	17.7	0.34	South	Ebb
10:30 AM	28	0.54	South	Ebb
10:54 AM	24	0.47	South	Ebb
11:45 AM	34	0.66	South	Ebb
12:12 PM	23.6	0.46	South	Ebb
12:37 PM	25.4	0.49	South	Ebb
12:56 PM	32	0.62	South	Ebb
<i>Boat Traffic – commercial</i>	<i>Name</i>	<i>Color</i>	<i>North or South</i>	<i>Loaded or Light</i>
9:20 AM	Tugboat	Black/white	Northbound	Light
10:20 AM	Corning Glass Barge	White/black	Southbound	Light
12:59 PM	Erie Canal Cruise Boat	White	Southbound	Light