

Day in the Life of the Hudson River 10/16/18 Data

CORNWALL LANDING

Orange County, NY

RIVER MILE: 57

Salt Front: ~RM 24

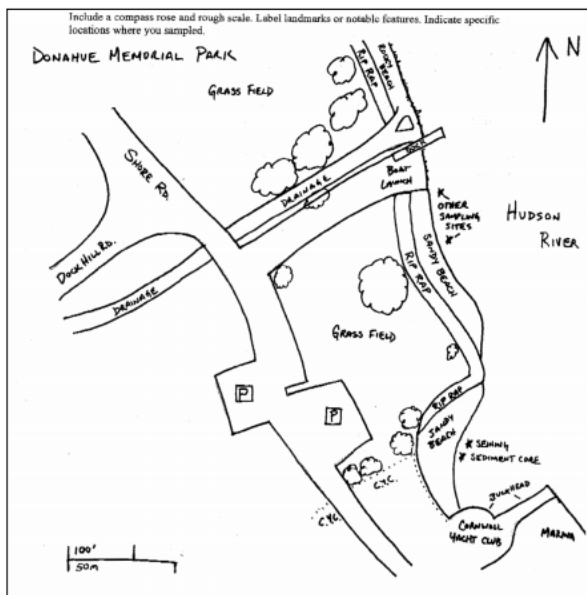
Willow Avenue Elementary School-

46 students 4th grade, 12 adults

Debbie Gilson & Christine Cleeves, Willow Avenue ES

Christopher O'Sullivan, Bear Mountain Educational Center

Latitude 41.44384 N & Longitude - 73.99961 W



Location: Cornwall Landing Boat Ramp, Donahue Memorial Park

Area: Sandy beach next to the Cornwall Yacht club used for seining and sediment coring. Beach next to the boat launch is used for other sampling.

Surrounding Land Use: 100% open grassy park

Sampling Site: pier, sandy beach, altered banks, shoreline riprap, bulkhead

Shoreline: Rocky, sandy beach

ITEM	Time	Reading		Comments
Physical				
<i>Air Temperature</i>	11:00 AM 11:30 AM 12:00 PM	13.3 °C 13.3 °C 15.6 °C	56 °F 56 °F 60 °F	
<i>Wind Speed: Anemometer</i>	11:00 AM	13-18 mph Beaufort force: 3	11.45 knots	South
<i>Weather today</i>	No rain, partly cloudy			
<i>Weather recently</i>	Heavy rains, cold temperatures			
Water Temperature	12:34 PM 12:35 PM	15 °C 18 °C	59 °F 64.4 °F	
Turbidity - turbidity tube		52cm, 48cm, 57cm		Avg: 52.3 cm
Chemical				
<i>Salinity- High Range Quantabs</i>	*480 ppm Cl ⁻	*867.1 ppm total salinity	*Salinity readings are a comparatively high for this area in 2018 – we needed low range quantabs for this site in 2018.	
<i>pH – Color match kit</i>	12:28 PM	7		
Fish	Count	Species		
<i>Fish - seined throughout the sampling event</i>	3 9 3 1 1	Alewives Blueback Herring Pumpkinseed sunfish Bluegill sunfish Largemouth Bass		DIVERSITY: 7 TOTAL COUNT: 24

	1 6	Hogchokers White Perch		
Tides-	Time	Rising, Falling, Unchanged	Height (cm)	Rate of Tidal Change (cm/min)
	11:08 AM	-	50	-
	11:23 AM	Falling	46	.267
	11:33 AM	Falling	45	.1
	11:38 AM	Falling	44	.2
	12:15 PM	Rising	53	.391
	12:30 PM	Rising	59	.4
Current-	cm/second	Knots	North/South	Ebb/Flood/Still
11:18 AM			South	Ebb