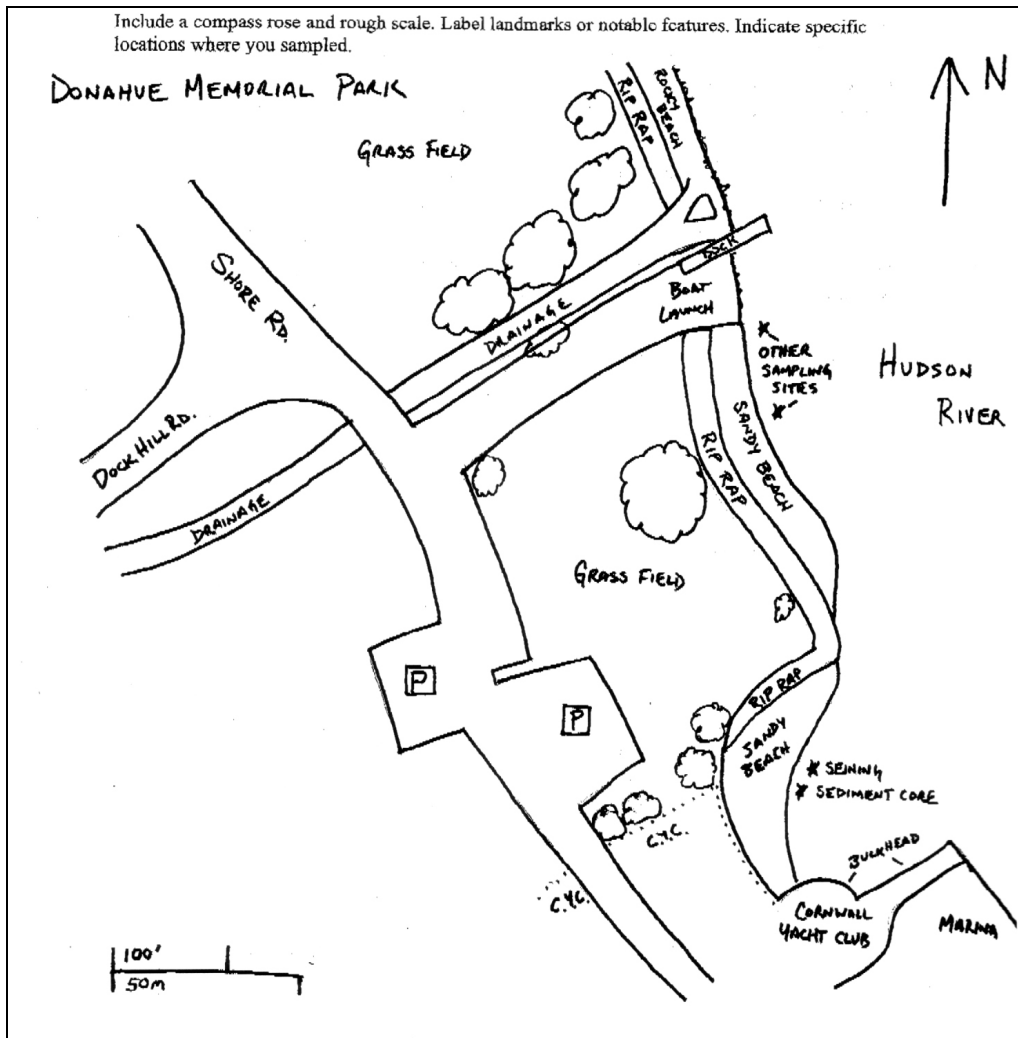


Snapshot Day 10/7/08 Data
(Salt Front RM 63.4)
RIVER MILE 57

Donahue Memorial Park, Cornwall Landing, Village of Cornwall-On-Hudson,
Town of Cornwall, Orange County, NY
Christopher O'Sullivan, NYSOPRHP Trailside Museums & Zoo
Deborah Gilson, Willow Ave. Elementary - 4th grade - 70 plus - students
GPS Latitude 41°26'36"N Longitude 74°0'1"W



Location: Donahue Memorial Park

Area: Sandy beach used for seining & sediment core, 2nd beach are for other sampling.

Surrounding Land Use: Forested 5%, beach 20%, 75% open and grassy

Sampling Site: sandy beach, altered banks, shoreline riprap, bulkhead, collected wood & debris in area,

Plants in area: 10% of sampling area: 30% of plants Water Milfoil ; 70% - water celery.

Water depth:

River Bottom - Claylike mud mixed with sand and rocks

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature	12:19 PM	26°C		
Wind Speed	1-3 knot	East		
Cloud Cover	clear			
Weather today	Clear and cool			
Weather recently	Cool - 4 °C to 17 °C. Negligible Precipitation			
Water Temperature	10:45 AM	60° F 9°C	63° F 9°C	61.5° F avg. 9°C
	12:00 PM	70° F 19°C	70° F 20°C	70° F 19.5°C
	1:35 PM	70° F 20°C	68° F 19°C	69° F 19.5°C
Water Calm	Water moved by wind	Not whitecaps		
Turbidity sight tube	10:55 AM	55 cm 81 cm		68 cm
Chlorophyll	9:45 AM	1.5		
	10:15 AM	1.5		
	10:45 Am	2.0		
Chemical				
DO meter	10:25 AM		18°C	79.1% - meter displayed only % saturation
pH (litmus paper)	12:05 PM	7.5 7.5 7.5		7.5 average
Salinity - Quantabs – low range strips –	10:10 AM	81 ppm		
	10:50 AM	81 ppm		
	Noon	73 ppm		
	1:40 PM	73 ppm		
Fish Catch 30 ft. seine X 4 ft. with bag – ¼ inch mesh - 15 ft. pull	Number Caught	Species	CPUE	Seine - 3 seines
	8	Alewife		216 Total
	6	American Shad		

	20	Banded Killifish		
	3	Blue crab		
	40	Blue back herring		
	4	Golden Shiner		
	15	Herring		
	38	Pumpkin Seed		
	10	Smallmouth Bass		
	39	Spottail Shiner		
	6	Striped Bass		
	1	Sunfish		
	19	White Perch		
	2	Brown Bullhead		
	2	Largemouth Bass		
	3	Unidentified		
Seine	Time	Total Catch	Length Pull	CPUE
1	10:00 AM	40	15 ft.	4.37
2	10:30 AM	44	15 ft.	4.81
3	12:30 PM	132	15 ft.	14.44
Tides*	10:05 AM		* Tidal range in this section of the Hudson is less extreme than further up or downriver, and on this date, with the moon in first quarter, the predicted water levels at high and low tide were only a bit more than a foot apart. Low tide was ~ noon but students might have missed subtle changes.	
	10:25 AM	Unchanged		
	10:55 AM	Unchanged		
	12:00 PM	Unchanged		
	1:45 PM	Rising		
Currents	10:05 AM		Ebb	
	10:25 AM		Ebb	
	11:05 AM		Ebb	
	12:05 PM		Flood	
Core - 2 ft. water depth 11:35 AM	26 cm – ½ cm oxidized top	Abundant – Sand	Common – Gravel	Rare – Clay Mud Leaves
Other Observations	2 Double crested cormorants	1 Great Egret	10 Ring Billed Gulls	1 Herring Gull

	26 American Crow	3 Monarch Butterflies		
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