

Snapshot Day 10/2/07 Data

(Salt Front RM 78.2)

RIVER MILE 115

Cohotate Preserve, Athens, Greene Co.

Liz LoGuidice, Cornell Cooperative Extension of Greene County

Tony Loughran, Cossackie Athens High School Env. Sci. & AP Bio. -10th-12th grade

- 26 students

Kathy Durkin, Catskill Elementary School, 3rd grade, 20 participants

Location: Cohotate preserve – forested area with education center. Large waterfront vegetated. North section bulkheaded, south section is beach

Area: education center, has a building

Surrounding Land Use: Forested 90%, Beach 5%; Urban/residential 5%

Sampling Site: muddy and rocky shoreline, beach covered with vegetation, some banks have been altered, has bulkhead

Plants in area: 85% of water has plants

<i>Plants identified</i>	Water celery	Water chestnut	Yellow Flag
	Arrow Arum	Three Square Rush	Poison Ivy
	Spatterdock	Pickerelweed	Wildrice
		Spotted Joe Pye Weed	

Water depth: 3-4 feet deep,

River Bottom : muddy & weedy bottom

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:57 AM	17.6°C 63.8°F	10:45 AM	21°C 68°F
Wind Speed	10:45 AM	5 mph	Gusts to 10 mph	
	11:00 AM	15 mph	Wind from South	
Cloud Cover	overcast			
Weather today	Mostly cloudy but dry			
Weather recently	No rain for last 3 days			
<i>Water Temperature</i>	10:00 AM	20.6°C 69°F		
	10:30 AM	20.5°C 68.9°F		
	11:45 AM	20.7°C		
<i>Water</i>	Slightly shoppy with wind			

<i>Turbidity</i>	11:30 AM	0 JTU				Site tube	
<i>Chlorophyll</i>	9:45 AM	0.3					
<i>Chemical</i>							
DO (drop count kit)	10:30 AM	12.0 ppm		20.0°C		120%	
(shady & windy area)	11:30 AM	9 ppm		20.7°C		98%	
pH – color match kit	10:30 AM	7.5 8.0					
	11:33 AM	8					
	12:00 noon	7.5					
Phosphate							
Nitrate							
Alkalinity							
Salinity	10:30 AM 10:45 AM Noon	200 ppm 200 ppm 200 ppm					
<i>Fish Catch</i> <i>60 ft. seine X 30 ft.</i>	<i>Seine 1</i>	<i>Seine 2</i>	<i>Seine 3</i>	<i>Seine 4</i>	<i>Seine 5</i>	<i>Seine 6</i>	TOTALS
Banded Killifish	1	1		1	2		4
Herring y-o-y possibly alewives	4	60	17	15	20	30	146
Bluegill Sunfish	2			1			3
Spottail Shiners	9	1	10	4			24
Tesselated Darter		1			1		2
White Perch			11	2			13
TOTALS	16	63	38	23	24	30	
<i>Tides</i>	8:00 AM	Through		Noon		Falling	
<i>Currents</i>	10:25 AM			ebb			
<i>Core Description</i>	6.6 cm length	No layers, all same		Fine grain sediment		Some wood & plant material	
<i>Traffic</i>	None Noted						