

**Snapshot Day 10/18/11 Data
(Salt Front RM 35.7)
RIVER MILE 115**

Cohotate Preserve, Athens, Greene Co.

**Liz LoGuidice, Cornell Cooperative Extension of Greene County
Tony Loughran, Cossackie Athens High School - 28 students, 11-12th
Donna Trunzo & Sue Boyle, Cairo Durham HS/MS – 37 students, 9th
(adults – 3 teachers, 3 chaperones, 4 instructors)**

Location: Cohotate preserve – Ice house site –

Area: The ice house is a flat, grassy area on the river with several cotton wood trees. It is situated at the bottom of a forested hill. Large waterfront vegetation. The artificial shoreline of the bulkhead dominates the eastern shore. Shoreline is characterized by tidal mudflats. Area is used recreationally for picnicking, hiking and fishing. Ice house is approximately ½ miles walk from the parking area.

Surrounding Land Use: Forested 85%, Beach 3%; Urban/residential 20%; Industrial Commercial 7%;

Sampling Site: Beach area, Shoreline includes tidal mud flats in the southeast, with a rocky shore further south. To the north of the tidal mud flat there is an old bulkhead, with another tidal flat to the north of the bulkhead, rip rap in sections.

The banks have been altered at the bulkhead (entire ice house area is likely dredge spoil), wood and debris are collected in the southern mudflat, there is lots of vegetation and no pipes entering the water.

Water Depth: We fish at the southern mud flat, which has a muddy bottom and a variable depth, depending on tide.

River Bottom: Muddy, rocky, weedy

Plants in area: Less than half the sampling site

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature	9:55 AM	13 °C	54.9°F	
	10:46 AM	13.9 °C	57.2°F	
Wind Speed				
Cloud Cover	Mostly cloudy			<i>Winds from NW</i>
Weather today	fog burned off and became partly sunny			
Weather recently	lovely			
<i>Water Temperature</i>	10:10 AM	15.9°C 58.8°F		
	11:00 AM	15.4°C 59.7°F		
	11:50 AM	15.3°C 59.7°F		
<i>Water</i>	calm			

<i>Turbidity</i>	10:15 AM	33 55 41		43 cm
<i>Chlorophyll</i>	10:00 AM	0.4		
<i>Chemical</i>				
DO (drop count kit)	9:55AM	5.5 ppm	15°C	55%
pH – color match kit	9:55 AM	7.5 7.5 7.5		
Salinity - Drop count kit	10:00AM	38 20 22	26.7 ppm chloride	48.24 Total Salinity
<i>Fish Catch</i> 40 ft. seine X 30 ft.	<i>Total #</i>	<i>Species – 7 species & 21 total</i>	<i>Length</i>	TOTALS
2 pulls	5	White Perch		
	55	Herring		
	4	Spottail Shiner		
<i>Tides</i>	9:40 AM	Set stick		
	10:20AM	3 meters	Falling	
	11:15AM	4.9 meters	Falling	
	12:00 PM	6.2 meters	Falling	
<i>Currents</i>	<i>Cm/60 sec</i>	<i>Cm/sec</i>	<i>Kts</i>	<i>flow</i>
9:45AM				South/ebb
10:43 AM				South/ebb
11:32 AM				South/ebb
<i>Core Description</i>				
<i>Shipping</i>	10:45 AM	Sailboat		South
	11:20 AM	Barge	White	South/Loaded
	11:45 AM	Recreational Boat		South
	12:05 PM	Cruise Ship		South/ Humans
<i>Other</i>				