

**Day in the Life of the Hudson River 10/10/13 Data
(Salt Front RM 69.3)
RIVER MILE 115**

Cohotate Preserve, Athens, Greene Co.

Liz LoGuidice, Cornell Cooperative Extension of Greene County

Tony Loughran, Cossackie Athens High School, Env. Sci. - 21 students, 11-12th

Sue Boyle, Cairo Durham HS AP Bio – 19 students, 9th

Donna Tronzo, Cairo Durham 6th grade – 60 students

(adults – 3 teachers, 4 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 vegetated. 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 70%, Beach 5%; Urban/residential 15%; Industrial Commercial 5%; wetland 5%

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. Brick pieces on shoreline

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: 25% of water covered in plants – Arrow Arum, Arrowhead, Bur-reed, Pickerelweed, Spatterdock, Yellow Flag, Jewelweed,

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
<i>Physical</i>				
Air Temperature				
Wind Speed				
Cloud Cover				
Weather today	Fog, drizzle,			
Weather recently				
<i>Water Temperature</i>	10:20AM	16°C		
<i>Water</i>				
<i>Turbidity</i>				
<i>Chlorophyll</i>				
<i>Chemical</i>				
DO (drop count kit)	AM 10:20	9 ppm	16°C	90% saturation

	10:45	8 ppm	16	82%
	10:59	8	15	80%
pH – color match kit	AM 10:33	7	7.5	7.25 average
Salinity - Test strips	AM			
<i>Fish Catch</i> <i>40 ft. X 30 ft.</i>	<i>Total #</i>	<i>Species –</i>	<i>Size</i>	<i>Totals</i>
	17	Spottail Shiner	4 inches	
FISH – 10:30 AM	4	Darter		
Diversity 6	2	White Perch		
Total Catch 26	1	Blue Gill		
	1	Herring		
	1	Pumpkinseed		
<i>Core – collected</i> <i>10:00 AM - in 1 meter H2O</i>	SMELL H2S	ABUNDANT Mud	COMMON Clay, Sand, Pebbles	Collected from the Cohotate fishing site
<i>Shipping</i>	8:55 AM	Big Ship with no barge	“Great Reward”	North/light
Other Items:	9:00 AM	- flock of geese flying south		
	11:50 AM -	eagle landed in tree at sampling site		