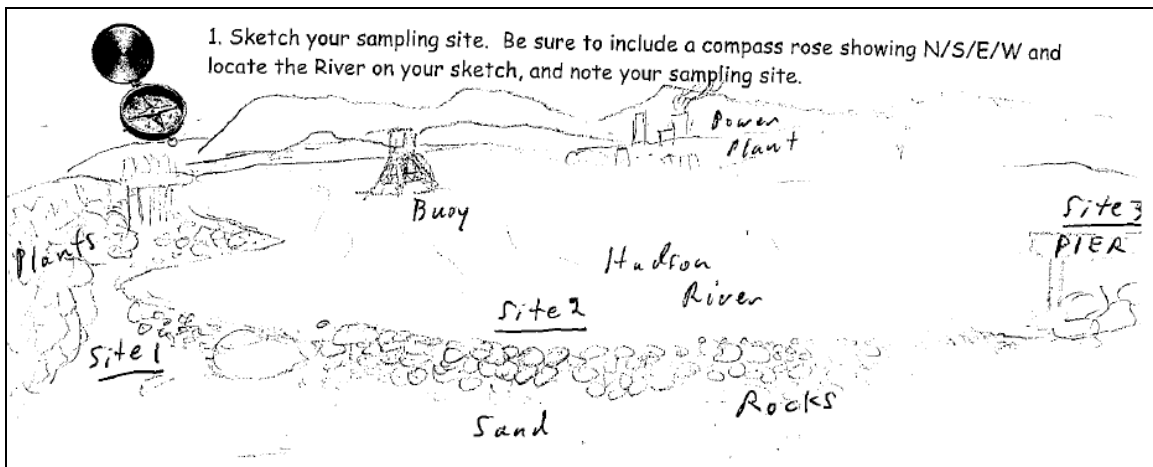
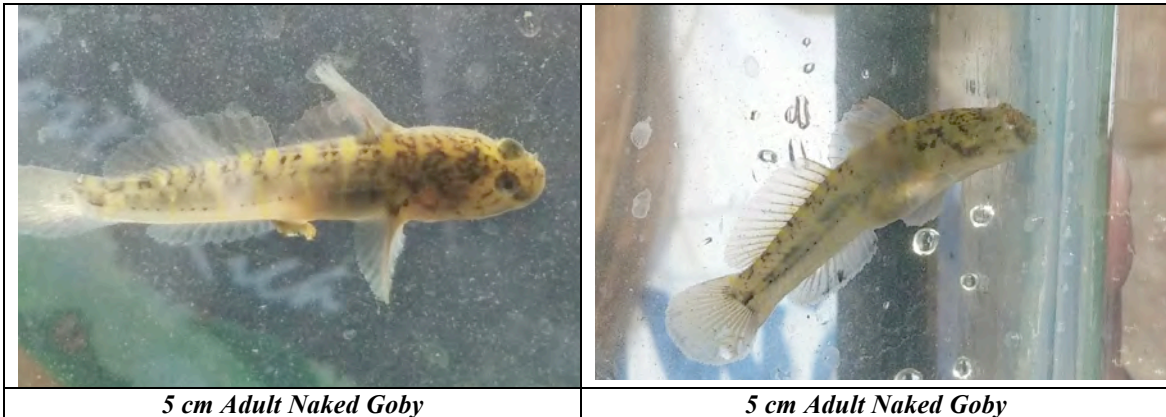


Day in the Life of the Hudson River 10/16/15 Data
RIVER MILE 41
Steamboat Dock Park, Verplanck, Westchester
Bob Connick, Sott Rizzo, Mahopac High School;
Environmental Research and Field Biology 9th - 12th graders –25 students,
4 teachers
Latitude N 41° 14958 - Longitude W 73° 936474



Sampling Map: Site 1 (Physical Data); Site 2 (Biological Data); Site 3 (Chemical Data)

Location: Steamboat Dock Park beach, City of Verplanck in Westchester County
Area: located in a small cove between a point and a bulkhead – Pier, Grassy, Parking Lot
Surrounding Land Use: Boating, Picnics, Swimming, Fishing, Jogging
Sampling Site: beach, covered in vegetation, riprap, banks altered, dock, bottom rocky, bulkhead, pipe south of the sampling site 10-15 m.
Shoreline: Sandy, muddy, rocky
Plants in area: Valissneria found on the shore, water chestnut seed pods
Other: No plants in water but plants in the area noted above
Water depth: 3 ft.
River Bottom – muddy, sandy, rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical				
Air Temperature				
Wind Speed	11:30 AM	Beaufort 3	South	6 mph
Cloud Cover	12:00 PM	Clear <25%	5 contrails & few cirrocumulus	
Weather today	11:30 AM –cloudy, rainy			
Weather recently	Humid and wet			
Water Surface	Calm			
Water Temperature 9 YSI SCI meter	11:42 AM 11:45 AM		18.5°C 18.6°C	
Turbidity – <i>Water very clean, no smell</i>	11:30 AM	~31 cm 27.9 26.1 Transparency tube	Average 28.3	14 NTU LaMotte
Chemical				
DO (drop kits)		18.5 °C 18.5	8 ppm 9 ppm	85% 100% Saturation
pH Indicator solution	11:45 AM 12:00 PM 12:15 PM	7.5 8.0 8.0		
Salinity YSI SCT meter	10:30 AM 11:39 AM 11:41 AM	4.2 ppt 4.0, 4.1 4.1, 4.1	Site #1- 4ppt	Site #2- 4.1ppt
Conductivity		6451 uS	6430 uS	
Fish Catch- 12:05 AM	Number Caught	Species	Size of largest	Seine
25 ft net X 4ft– 300 ft. pull	3	Striped Bass	7.6 cm	
	208	Atlantic Silversides		8 seines
	1	Yellow Perch	7.6 cm	
				Tide Pool
	1	Naked Goby	5 cm	Found under the rocks on shoreline
	6	American Eel	23 cm	
Total Catch	219	Total Fish Count	5	#Species
				Invert Seine
	2	Blue Crab	1 M/1 F	
	5	Comb Jellies		

				<i>Invert Pools</i>
	15	Juvenile blue crab		
	15	Scuds		
Total Catch	37	Total Invert Count	3	#Species
Coring	Unable to collect – need new corer			
Tides* <i>Meter stick kept coming out of bottom</i>	TIME - Amt. Rise/ Fall			
Tides* <i>Meter stick kept coming out of bottom</i>	11:05	7 cm		
	11:20	7 cm		
	12:14	28 cm		
Current *	Time	Direction	Ebb/Flood	Speed
Full sampling time	FLOOD			
Traffic - commercial	Name	Type	North/South	Loaded/Light
11:45 AM	Red/orang	Train	Southbound	Loaded
11:25 AM	White	Tug/barge	Northbound	Loaded
11:29 AM	Blue/whit	Tugboat	Southbound	Loaded
12:30 PM	Dory	Tug/barge/	Northbound	Loaded
Traffic Recreational	Type	Nam/color	North/South	Loaded/Light
10:45 AM	White	Boat	North	Light
Birds	8 ducks, 16 geese, crabs, sparrows, 10 ring-billed gulls & a couple of herring gulls,			
Plants	Virginia creeper, locust, sumac, burdock			
Anthropogenic	Bricks, feather, rocks, glass, plastic, wood, devil's head seed pods for water chestnut			