

Day in the Life of the Hudson River 10/20/15 Data

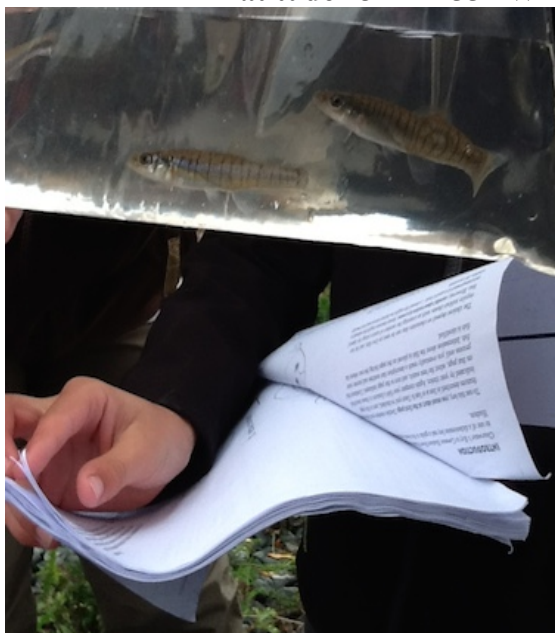
RIVER MILE 152.2

Hudson Shores Park, Watervleit, NY

Amy Parks/Stacey Shepard, North Colonie CSD

20 students, 5th grade students and 4 adults

Latitude 73° 41' 55" W Longitude 42° 43' 41" N



Banded Killifish Identification



Dissolved Oxygen Sampling

Location: Hudson Shores Park, Watervleit, Albany County, NY

Area: Rowing dock at park right on the river's edge

Surrounding Land Use: Fishing launch, Rocky with weedy vegetation and a few small shrubs (gravelly)

Sampling Site: 10% beach at low tide, 70% park/parking area, 20% planted/forested, - across the river land use 100% Industrial/Commercial

Shoreline: rocky and muddy

Plants in area: none in the water

Water depth: sharp drop off 8-10 feet out, rocky bottom

Water: Calm

River Bottom: mixture of sand/mud, small rocks

Note: A sinking boat had to be rescued with some large cranes in the afternoon blocking access to the sampling area!

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical - Air Temperature	Time	°F	°C	Average
	10:09 AM	52	11	
	10:40 AM	53	12	
	12:31 PM	58	14	
Wind Speed:	Time	Beaufort	Anemometer	Direction
Cloud Cover	Clear (<25%)	Partly Cloudy (26-	Mostly Cloudy (51-	Overcast (>75%)

		50%)	75%)	
Morning				✓
Afternoon		✓		
Precipitation	Time	Rain	Describe	
	Morning	✓		
Weather last 3 days	Last three day windy and cool.			
Water Temperature	Time	°C	°F	Average
	10:34 am	15	60	
	12:04 PM	14	57	
	12:22 PM	14	57	
Turbidity – long site tube	Reading 1	Reading 2	Reading 3	Average
	10:02AM	108.5 cm		
	11:58 am	111.5 cm		
	12:20 pm	112.5 cm		
Chemical	Time	mg/L	Water Temp	% Saturation
DO (Hach Drop count)	10:34 am	17*	15	160%
* must be an error – too high	12:04 PM	16*	14	152%
	12:22 PM	19*	14	170%
pH – color match test kit	10:15 AM	7.0	7.5	
	12:01 PM	7.5	7.4	
	12:20 PM	7.4	6.9	
Salinity - quantab	10:49 AM	28 ppm	Chl	51 TS
	12:04 PM	28 ppm		51
	12:30 PM	28 ppm		51
Fish Catch -	ID	Total	Length	
1 Seine	Spot-Tail Shiner	2	2 inch	
	Banded killifish	2	2.5 inch	
2 Seine	Spot-Tail Shiner	1		
TOTALS	Abundance 5	Diversity 2		
In addition to seining the fisheries team brought some fish to ID – These included: 3 Striped Bass 2 Catfish Yellow Perch Walleye Smallmouth Bass Orange Sucker				
Tides - *calculate by: change in elevation/change	Time	Water height		*Rate of change
	8:15 AM	155 cm		
	9:50 AM	180 cm	falling	

<i>in time</i>	10:40 am	170 cm		
	11:53 am	287.02 cm	Rising**	
	In the afternoon at 12:20 PM in a different location students measured the water's edge and noted it had gone down 420 cm from the high tide line.			
Currents -	cm/30 sec	Cm/sec	Knots	Flood/Edd
9:50 AM	88	2.9	.06 kts	Flood
12:35 PM	78	2.7	.05	Ebb