A Day in the Life of the Hudson River 10/20/15 Data RIVER MILE 102



Saugerties Light House, Town of Saugerties, Ulster Co. Marie Daniels, Jennifer Reid & Matthew, Woodstock Day School Grades 5th & 7th, 20 students and 8 adults 42.04°N, 73.92 °W



Location: Saugerties Light house @ northern bank of

peninsula – pier with grassy area

Area: Pier of sorts, boating, fishing, swimming beach,

picnics, hiking, walking

Surrounding Land Use: Forested 80%, Beach 20% Sampling Site: beach, bulkhead altered banks years ago, covered with vegetation, collected wood/debris in area, shoreline riprap at lighthouse, shoreline is sandy, muddy,

rocky **River Bottom:** muddy, sandy, rocky

Plants in area: Percent reported varies from 50% to 90%

water chestnut, and 50% to 10 % water celery

ITEM	Time	Reading 1	Reading 2	Comments
Physical Physical				
Air Temperature	10:33 AM 11:37 AM 11:51 AM	13°C 14°C	55 F 57 F 60 F	
Wind Speed	11:31 AM 11:00 AM 11:51 AM	Beaufort #3 Beaufort #2	00 F	N SW
Cloud Cover	12:00 PM	Partly	51-75% cloud	

		cloudy		
Weather today	No rain	1 222 222	I.	
Weather recently	Cool fall like			
Water	10:30 AM	10 °C	2 ft. water	
Temperature	11:50 AM	15°C	3 ft. water	
	11:55 AM	15°C	2 ft. water	
Water Calm or	choppy			
Choppy				
Turbidity			Average 25	Not clear but
Long site tube	10:35 AM	25 cm	cm	not turbid –
_		20		on a scale of
		30		1-10 it is
				about a 4!
		26 cm	Average 31	
		32	cm	
	11:00 AM	35		
		26	Average –	
	11:28 AM	34	28.3 cm	
		25		
		26 cm	Average 27	
	12 01 DM	27	cm	
Cl : 1	12:01 PM	29		
Chemical	10.20 AM	C /T		
DO (ampulas)	10:30 AM 11:00 AM	6 mg/L		
(ampules)	12:00 AM 12:00 PM	8 mg/L		
	12.00 PW	8 mg/L		
pH – color match	11:30 AM	7.4		
kit	12:00 PM	7.4		
Salinity				
Quantabs	TD*		11 1	T (1 C
Fish – 50 ft. net	Time	Species	# caught	Length of
Caina #1 Di. 2	10.20	Lorgomovile	1	largest
Seine #1 - Div 3 Totals 4	10:20	Largemouth Bass	1	15 cm
10lais 4		Bass Banded Killi	2	5 cm
		Bluegill	2 1	2.5 cm
		Sunfish	1	2.3 (111
Seine #2 – Div 5	10:54 AM	Common	2	17 cm
Totals 9	10.57 AW	Goldfish		1 / СП
100000		Striped Bass	4	17 cm
		Pumpkinseed	1	4 cm
		Shad	1	11 cm
		Banded Killi	1	10 cm
Seine #3 – Div 3	11:30 AM	Goldfish	2	14 cm
				1

Totals 5				
		Blueback	2	7cm
		Herring		
		Tessellated	1	10 cm
		Darter		
Seine #4 – Div 7	11:46 AM	Pumpkinseed	1	12 cm
Totals 28		1		
		Striped Bass	5	18 cm
		Shad	8	8 cm
		Bluegill sun.	5	
		Tessellated	1	
		Darter		
		Banded	7	
		Killifish		
		Golden	1	10 cm
		Shiner		
	GRAND	DIVERSITY	TOTAL	
	TOTALS	- 9	CATCH -46	
Tides	Time	Height	Falling/Rising	
	10:36 AM	35cm		HT was at
	11:07 AM	93 cm		8:32 AM
Currents	Time	Cm/30 secs	Cm/sec	N/S - E/F/S
	11:45 AM	30cm/30 sec	1cm/sec	
	12:00 PM	60 cm/30 sec	2 cm/sec	North/flood
	12:09 PM	50cm/30 sec	6.6 cm/sec	4.6 kts
Sediment Core -	Observation	Rare	Common	Abundant
Length				
10:50 AM -	8 inches –			Mud on
	oxidized top			bottom
11:14 AM	4 inches – 1	Gravel,	Clay,	sand
	inch	Living	mud	
	oxidized top	vegetation		
11:20 AM	5 inches –	Clay	Mud	Sand
	oxidized top			
11:54 AM	3 inches –	Clay		Sand
	H2S smell,			
	1inch			
	oxidized top			
Shipping	10:00 AM	Red Barge	Northbound	Loaded
Commercial (C)	N/R	White	Northbound	Light
	N/R	Barge Red/Bk	Southbound	Light
	12:00 PM	Black	Southbound	Light
	12:00 PM	Large Cargo	Southbound	Loaded
Recreational (R)	10:00 AM	White	Southbound	Light
	12:45 PM	speedbt	Southbound	Light

	Sailboat		
Observations	Lots of devil's heads from water chestnut, and bricks, lumps of		
	coal, bits of shells, overgrown plants and seagulls,		
	hummingbird, squirrels, hawks, dragonflies		