

Day in the Life of the Hudson River 10/16/14

(Salt Front RM 69.5)

RIVER MILE 23.5

Dobbs Ferry, Waterfront NY

**Stephen Fleming & Bill Livingston, EF Academy and 45 Junior Biology Students
and 4 adults total**

(41.009253 -73.880438)

Location: Dobbs Ferry, Half-Moon Restaurant waterfront south of Waterfront Park

Area: South edge of parking lot of the Half Moon Restaurant

Surrounding Land Use: Commercial

Sampling Site: 10% beach at low tide, 70% rip rap,

Shoreline: shore with bulkhead, area covered with vegetation

Plants in area: Trees, bushes and grasses

Water: Calm

River Bottom: sandy/rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading 1</i>	<i>Reading 2</i>	<i>Comments</i>
Physical - Air Temperature	Time	°F	°C	Average
	14:15		18	18.5
	14:30		18	
	14:45		19	
	15:00		19	
Wind Speed:	Time	Beaufort	Anemometer	Direction
	14:53		4.8 m/s	S
	15:15		3.5 m/s	S
	15:30		4.5 m/s	S
Cloud Cover	Clear (<25%)	Partly Cloudy (26-50%)	Mostly Cloudy (51-75%)	Overcast (>75%)
All Day				✓
				✓
				✓
				✓
Precipitation	Time	Rain	Describe	
	All Day	Y	Light and moderate	
		Y		
Weather last 3 days	Warm, wind and rainy			
Water Temperature	Time	°C	°F	Average
	14:31	17		18.5
	14:35	19		
	14:40	19.5		

<i>Turbidity – long site tube</i>	Reading 1		Reading 2	Reading 3	Average
14:10	37cm		36 cm	37 cm	36.3 cm
<i>Chemical</i>	Time		mg/L	Water Temp	% Saturation
<i>DO (vernier data logger)</i>	14:35		10 mg/L	19	105%
	14:45		10 mg/L	19	105%
	13:15 pm		7 mg/L	20	80%
	13:55 pm		9 mg/L	20	95%
pH – color match test kit	10:02 am		7.5		
13:37	7.5		7.5	7.4	7.5
13:55	7.5		7.5	7.6	7.5
14:15	7.6		7.5	7.5	7.5
<i>Salinity - quantab</i>					
<i>Fish Catch -</i>	Time		ID	Number	Longest
Seined	14:30		silverside	2	15 cm
Seined	14:45		American eel	1	33 cm
TOTALS			Diversity 2	Totals 3	
<i>Tides -</i>	Time		Water height		*Rate of change
	13:58		24 cm	Base reading	
	14:18		26 cm	Rising	0.1cm/sec
	14:28		29 cm	Rising	0.3 cm/sec
	14:35		33 cm	Rising	0.6 cm/sec
	14:40		35 cm	Falling	0.4 cm/sec
<i>Currents -</i>	Feet	cm	cm/30 sec	Cm/sec	N/S
14:32		100	100cm/30 sec	33.3cm/sec	S
14:45		110	110cm/30 sec	36.7cm/sec	S
15:03		100	100cm/30 sec	33.3 cm/sec	S
<i>Boat Traffic:</i>	13:35	Tug and Barge	Red	Northbound	