

**Day in the Life of the Hudson River 10/12/17 Data**  
**(Salt Front ~ RM 65)**  
**RIVER MILE 144**  
**Rensselaer Boat Launch, Forbes Rd., Rensselaer, NY**  
**David Lewis, Tech Valley High School - 9<sup>th</sup> grade**  
**Environmental Science & Geography – 38 students, 5 Adults**

**Location:** Rensselaer Boat Launch

**Area:** Boat launch – beach area

**Surrounding Land Use:** Boat launch with small beach, wooded, landscaped, adjacent to urban residential area

**Sampling Site:** boat launch with surrounding beach area

**Plants in area:**

**Water depth:** unknown

**River Bottom :**

**Times: All sampling 12:30-2:15 PM**

<i>ITEM</i>	<i>Time</i>	<i>Average Readings -</i>		<i>Comments</i>
<i>Physical</i>				
Air Temperature	NR	°C		
Wind Speed				
Cloud Cover	NR			
Weather today	NR			
Weather recently	NR			
<i>Water</i>				
<i>Water Temperature</i>	Team 1	9:50 AM	23.9°C	<b>Average 23.8°C</b>
	Team 2	9:50 AM	23.7	
	Team 3	10:05 AM	24.1	
	Team 4	NR	23.1	
	Team 5	9:15 AM	23.6	
	Team 6	9:54 AM	24.1	
	Team 7	10:07 AM	24.1	
<i>Turbidity longtube recorded in NTU)</i>	Team 1	9:50 AM	<5 NTU	>85 cm visibility – very clear
	Team 2	9:50 AM	<5 NTU	
	Team 3	10:05 AM	<5NTU	
<i>Chemical</i>				
DO (chemets color comparator)  <b>Average 7.16 ppm 80% Saturated</b>	Team 1	9:50 AM	6.8 ppm	79% Sat
	Team 2	9:50 AM	7.0	80
	Team 3	10:05 AM	6.0	68
	Team 4	NR	8.0	93
	Team 5	9:15 AM	8.0	93
	Team 6	9:54 AM	5.0	55

	Team 7	10:07 AM	NR	
pH	Group	TIME	pH meter - Flinn	pH paper
	Team 1	9:50 AM	7.6	6.4
	Team 2	9:50 AM	7.7	6.2
	Team 3	10:05 AM		6.2
Phosphate - Chemets snap test	Team 1	9:50 AM	0.3 ppm	
	Team 2	9:50 AM	1.0 ppm	
	Team 3	10:05 AM	0 ppm	
Nitrate – Chemets snap test	Team 1	9:50 AM	4 ppm	
Alkalinity		47.6 ppm		
Salinity – quantabs	9:50 AM	1.6 - Q. unit	37 ppm Cl-	67 ppm TS
	9:50 AM	1.4	32 ppm	58 ppm TS
<i>Current – with orange – close to still tide</i>	Team 1	9:50 AM	0.32 cm/sec	Ebb
	Team 2	9:50 AM	2.7 cm/sec	Ebb
	Team 3	10:05 AM	1.37 cm/sec	Ebb
<b><i>Shipping Traffic</i></b>	2	BOATS		