**A Day in the Life of the Hudson River 10/24/14 Data**

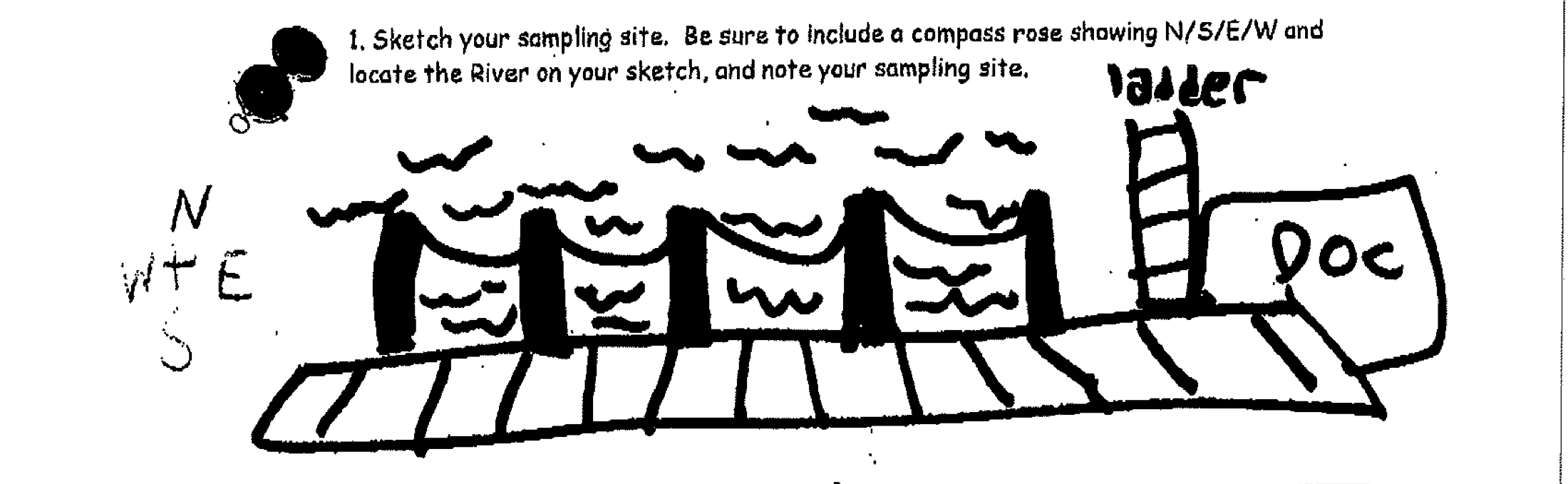
**(Salt Front RM 65.3)**

**RIVER MILE 102**

**Saugerties Light House, Town of Saugerties, Ulster Co.**

**Marie Daniels, Woodstock Day School**

**Grades 3rd & 7th, 25 students and 6 adults**

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**Student Sketch of the Sampling Site along the pier  
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:** Beach 100%

**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, weedy, sandy

**Plants in area**: 50% weeds, 30% trees, 10% leaves, 10% fålowers

**Sampling Times – 10 AM to 1PM**



**Student sketch of the lighthouse and sampling site**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***ITEM*** | ***Time*** | | ***Reading 1*** | ***Reading 2*** | ***Comments*** | |
| ***Physical*** |  | |  |  |  | |
| Air Temperature | 11:08AM  11:44 AM | | 15°C  13°C |  |  | |
| Wind Speed | 11:03 AM | | Beaufort #5.5 |  | North |
| Cloud Cover | 11:04 AM | | overcast | >75% cloud |  | |
| Weather today | Sporadic rain | | | | |
| Weather recently | Rain yesterday | | | | |
| ***Water Temperature*** | N/R |  | |  |  | |
| ***Water Calm or Choppy*** | Somewhat choppy |  | |  |  | |
| ***Turbidity***  secchi | 92 cm  66 cm |  | | Average – 79 cm |  | |
| ***Chemical*** |  |  | |  |  | |
| DO  (ampules) | 10AM-1PM | 8 to 10 mg/L | |  |  | |
| pH – color match kit | 10:36 AM | 7.5 | |  |  | |
| Salinity Quantabs |  | 38 ppm Cl- | | 68.6 TS |  | |
| ***Tides*** | **Time** | **Height** | | **Falling/Rising** |  | |
|  | 11:30 AM | 80 cm | | Rising | LT for area ~10:54 | |
| ***Currents*** | **Time** | **Cm/30 secs** | | **Cm/sec** | **N/S - E/F/S** | |
|  |  | 558 cm/30 sec | | 18.6 cm/sec | Flood | |
|  |  | 591 cm/35 sec | | 16.9 cm/sec | Flood | |
| ***Shipping*** | 10:15 AM | Bouchard | | Northbound | Loaded | |