

# RIVERTRENDS DATA UPLOAD

## MAKE AN ACCOUNT

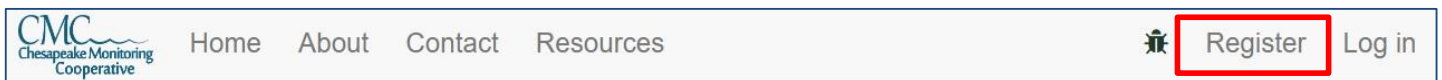
Before you can upload your data, you must register with an account on the CMC Data Explorer.

1. Visit the data explorer [link](#) and select **Manage Data** on the top of the page.

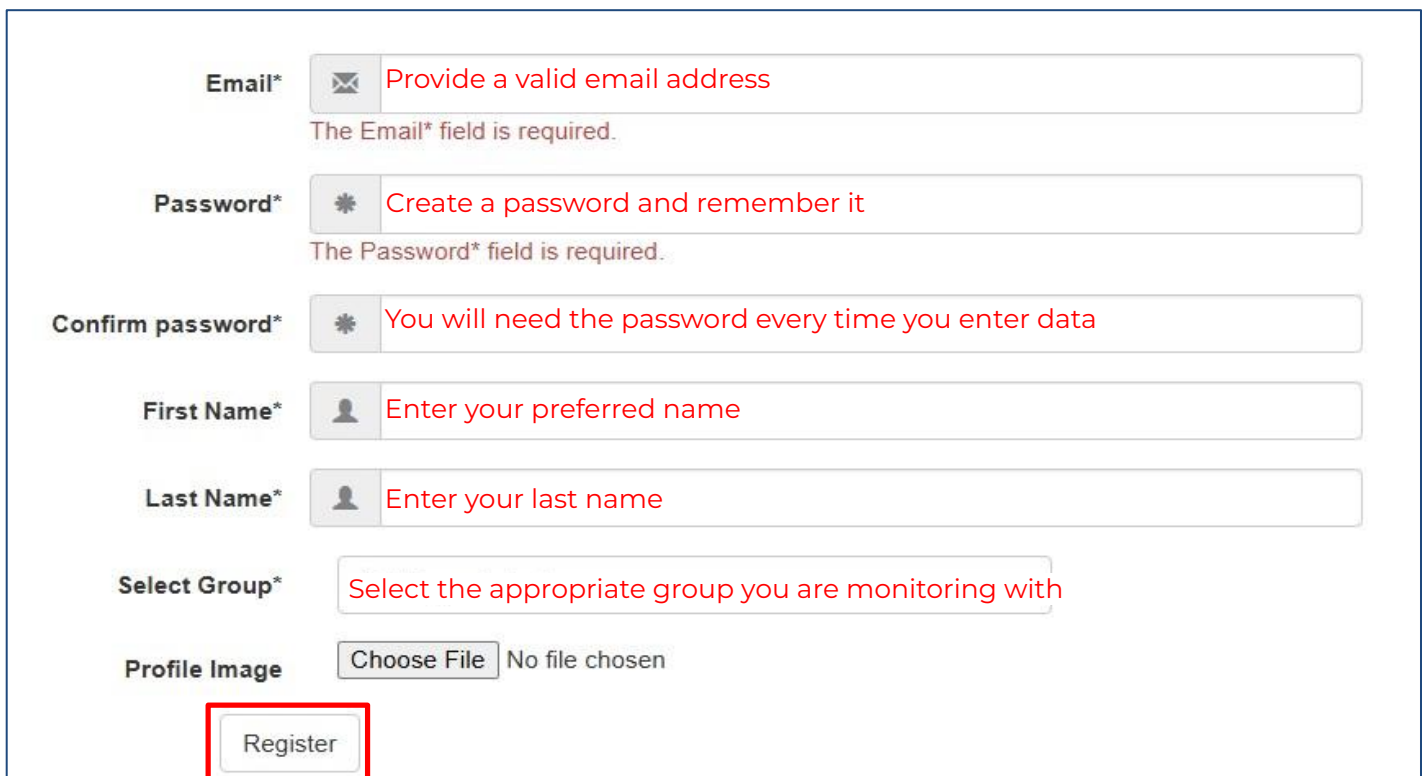
[cmc.vims.edu](http://cmc.vims.edu)



2. Select **Register** at the top right corner of the page.



3. Fill out the entire registration form with the following highlighted information.



The registration form contains the following fields and elements:

- Email\***: Placeholder text "Provide a valid email address" (highlighted with a red box). Below the field is the message "The Email\* field is required."
- Password\***: Placeholder text "Create a password and remember it". Below the field is the message "The Password\* field is required."
- Confirm password\***: Placeholder text "You will need the password every time you enter data".
- First Name\***: Placeholder text "Enter your preferred name".
- Last Name\***: Placeholder text "Enter your last name".
- Select Group\***: Placeholder text "Select the appropriate group you are monitoring with".
- Profile Image**: A "Choose File" button and the text "No file chosen".
- A **Register** button (highlighted with a red box) is located at the bottom left of the form.

**\*\*Select Group:** select the group you are associated with. If you do not see your group listed, please select "Alliance for the Chesapeake Bay"

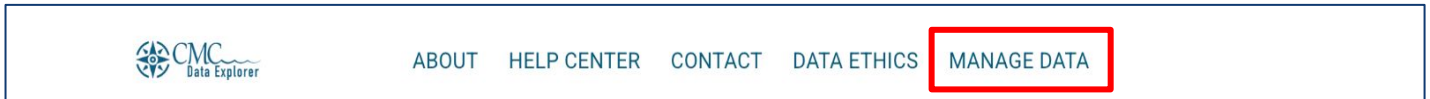
4. Click **Register** when completed, then go to your email and **click the link to confirm your email address**. An Alliance staff member will confirm your registration within 24 hours. You will then be able to login to upload data.

# RIVERTRENDS DATA UPLOAD

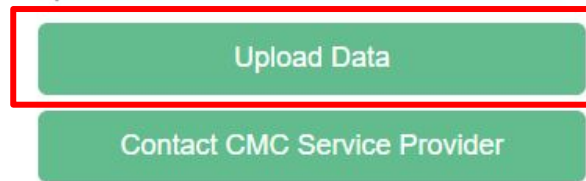
## UPLOAD DATA

To upload data, first log in to your account on the CMC Data Explorer. Select **Manage Data** from the top menu, then select the **Upload Data** quick link.

[cmc.vims.edu](http://cmc.vims.edu)



Quick Links:



Fill out the top section of the data upload form with the information corresponding to your datasheet.

Hi Monitoring, welcome to the data upload page! Here you can enter data for any group and station in the Chesapeake Data Explorer.

**Group**

Alliance for the Chesapeake Bay

Use the dropdown list to choose the group for which you will be uploading data.

**Sampling Site**

HAYCRE0.1

Use the dropdown list to choose the sampling station for which you will be uploading data.

**Sample Date**

2025-02-05

Click on text box above and use the calendar that opens to choose the sample date

**Sample Time**

9:33 AM

Click on the text box above to select the sample time

- **Group:** This will be selected for you based on the group you choose at registration.
- **Sampling Site:** Select your sampling site from the drop down list provided. If you do not see your station, contact the RiverTrends Coordinator.
  - Use caution as some sampling sites may have similar names. Double check you have selected the appropriate site
- **Sample Date:** Enter your sampling date from your datasheet (mm/dd/yyyy).
- **Sample Time:** Enter your sampling time from your datasheet (HH:MM AM/PM)

# RIVERTRENDS DATA UPLOAD

## ENTERING DATA: CONDITIONS DURING SAMPLING

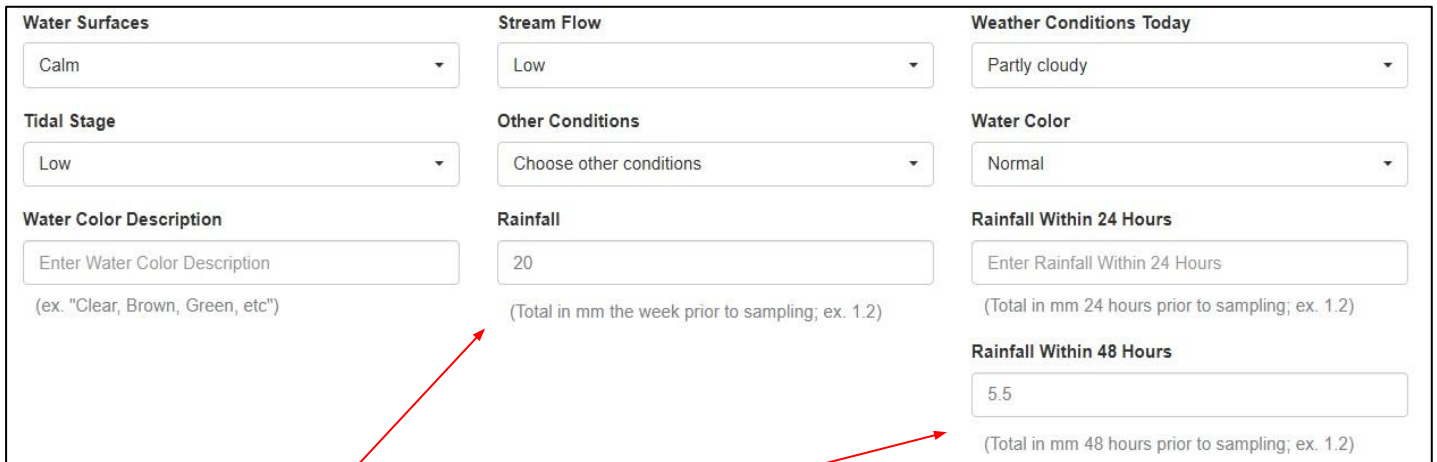
From the "Choose Conditions Set" drop down box, **select ACB**.

Fill out the conditions during sampling that correspond to your datasheet by using the dropdown menus or text boxes. Leave any unused fields blank.



### RiverTrends monitors should have complete observational data for:

- water surface, stream flow rate, weather conditions today, water color, tidal stage (if applicable), other conditions (if applicable). The drop down menus correspond to observational data section on the back of your datasheet.



### Rainfall Data:

To source your rainfall data, please visit the RiverTrends Resource Page and utilize Wunderground or your local rainfall station to collect accurate rainfall data.

- **Rainfall:** type in the weekly accumulation total (mm) before sampling
- **Rainfall Within 48 Hours:** type in the total of rainfall (mm) 48 hours before sampling

# RIVERTRENDS DATA UPLOAD

## ENTERING DATA: CALIBRATIONS AND STANDARDIZATIONS

### DISSOLVED OXYGEN

**Sodium Thiosulfate Check (mg/L):** Type in the value of your sodium thiosulfate check. If a second and third check were completed, report the two closest values. Click the blue plus sign to “add a second value” and type in the value for the second sodium thiosulfate check. If your sodium thiosulfate check is not between 9.4 and 10, submit a supply request for new sodium thiosulfate on the [RiverTrends Resource Page](#).

#### Data Sheet:

Check 1	Check 2	Check 3
<u>9.2</u> mg/L	<u>9.6</u> mg/L	<u>9.4</u> mg/L

#### Upload:

**Dissolved Oxygen Sodium Thiosulfate Check (mg/L)**

+

### BACTERIA (R-CARD)

E. coli Bacteria Measurements (R-Card)				
Disregard any pink, red, green-blue, or white colonies. These are not E. coli bacteria. Only count purple and blue-purple colonies.	Incubation Time	Incubation Temperature	Sample water used (1-3mL)	Total colonies counted on plate
	<b>24</b> hours	<b>38.5</b> °C	Sample 1: _____ mL Sample 2: _____ mL <small>(only March/October)</small>	_____
<b>To calculate the Total Colonies of E. coli bacteria per 100 ml of water:</b> 1. Divide 100 by the ml of water used. 2. Multiply this quotient by the number of purple colonies counted <b>Sample 1:</b> $([100 \div \text{mL of water used}] * \text{colonies counted}) = \text{_____ CFU/100mL}$ (report this number on back of datasheet) <b>Sample 2:</b> $([100 \div \text{mL of water used}] * \text{colonies counted}) = \text{_____ CFU/100mL}$ (report this number on back of datasheet)				

**Bacteria Incubation Temperature (deg C)**

**Bacteria Incubation Time (hours)**

# RIVERTRENDS DATA UPLOAD

## ENTERING DATA: CALIBRATIONS AND STANDARDIZATIONS

### pH

Type in the value of your pH meter quality assurance checks Most monitors complete a 2-point calibration, using pH 7 and pH 4 or pH 10. Leave the other one blank. Use the guide below to match up the numbers on your datasheet with the correct sections on the data upload page.

#### Data Sheet:

pH Meter Quality Assurance Checks					
If your calibration values differ by more than +/- 0.20 from the standard, do not take sample and contact coordinator.	Pre-sample Calibration and Temperature		Post Sample Check and Temperature		
	7.00	<u>7 . 00</u>	<u>21 . 2</u> °C	7.00	<u>7 . 02</u>
	4.01	_____ . _____		4.01	_____ . _____
	10.01	<u>10 . 00</u>		10.01	<u>10 . 01</u>
				<u>23 . 0</u> °C	



#### Upload:

pH Calibration Temperature (deg C)	<input type="text" value="21.2"/>
pH Calibration Value (4) (SU)	<input type="text" value="Enter pH Calibration Value (4) (SU)"/>
pH Calibration Value (7) (SU)	<input type="text" value="7.0"/>
pH Calibration Value (10) (SU)	<input type="text" value="10.0"/>
pH Post-Sample Check (4) (SU)	<input type="text" value="Enter pH Post-Sample Check (4) (SU)"/>
pH Post-Sample Check (7) (SU)	<input type="text" value="7.02"/>
pH Post-Sample Check (10) (SU)	<input type="text" value="10.01"/>
pH Post-Sample Temperature (deg C)	<input type="text" value="23.0"/>

# RIVERTRENDS DATA UPLOAD

## SURFACE SAMPLES


This section records the surface samples that correspond to the back of the RiverTrends datasheet, If you do not have data for a listed parameter, leave the box blank. Do not enter "0" unless that is the actual recorded value.

### Data Sheet:

Parameter	Field Readings
<b>Air Temperature</b> (nearest tenth)	<u>12.5</u> °C
<b>Dissolved Oxygen</b> <i>Note: Tests should be within 0.6 of each other. If not, perform 3rd test and report two closest results.</i>	Test 1: <u>11.2</u> mg/L
	Test 2: <u>11.0</u> mg/L
<b>Bacteria</b>	<u>133</u> CFU/100mL
<b>pH</b> (nearest hundredth)	<u>8.02</u> SU
<b>Salinity</b> (nearest tenth)	<u>16.0</u> ppt
<b>Total Depth</b> (nearest tenth of meter)	<u>1.5</u> m
<b>Water Clarity - Secchi Disk</b> (nearest tenth of meter)	_____ m <input type="checkbox"/> Check box if value is > than that recorded
<b>Water Clarity - Turbidity Tube</b> (nearest tenth of cm)	<u>110.6</u> cm <input type="checkbox"/> Check box if value is > than that recorded
<b>Water Temperature</b> (nearest tenth)	<u>5.0</u> °C

### REMINDERS:

- Upload TWO dissolved oxygen samples each month.
- Upload TWO samples for each parameter in March and October when you collect field replicates.
- Use QUALIFIER CODES when the reading is greater than your equipment is able to record. See next page for more information on how to use qualifier codes.

Click  **Save** at the bottom of the page after entering your data.

### Upload:



Air Temperature (deg C)  
12.5

Dissolved Oxygen (mg/L)  
11.2  
11.0

Bacteria (E.coli) (CFU)  
133

pH (SU)  
8.02

Salinity (Refractometer) (ppt)  
16

Total Depth (M)  
1.5

Secchi Disk (M)  
Enter Secchi Disk (M)

Turbidity Tube (cm)  
110.6

Water Temperature (deg C)  
5

# DATA UPLOAD: REPLICATES AND QUALIFIERS

## REPLICATE SAMPLES






RiverTrends monitors collect two dissolved oxygen samples each month, indicated by Test 1 and Test 2 on the field data sheet. Additionally, replicate samples of all parameters are collected in March and October. When this happens, both samples need to be uploaded to the Data Explorer by using the blue plus sign symbol to open a second value box.

**Data Sheet:**

<b>Dissolved Oxygen</b> <i>Note: Tests should be within 0.6 of each other. If not, perform 3rd test and report two closest results.</i>	Test 1: <u>9.6</u> mg/L
	Test 2: <u>9.8</u> mg/L



**Upload:**

<b>Dissolved Oxygen (mg/L)</b> <input type="text" value="Enter Dissolved Oxygen (mg/L)"/>   	<b>Dissolved Oxygen (mg/L)</b> <input type="text" value="9.6"/> <input type="text" value="9.8"/>  
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## QUALIFIER CODES


For secchi disk or turbidity tube measurements, you may have a reading that is greater than the value able to be recorded by your equipment. If this happens, click the orange circle and select the ">" symbol from the drop down menu.

**Data Sheet:**

<b>Water Clarity - Secchi Disk</b> (nearest tenth of meter)	_____ m <input type="checkbox"/> Check box if value is > than that recorded
<b>Water Clarity - Turbidity Tube</b> (nearest tenth of cm)	<u>120.0</u> cm <input checked="" type="checkbox"/> Check box if value is > than that recorded



**Upload:**

<b>Turbidity Tube (cm)</b> <input type="text" value="120"/>   	Note: If reading is greater than the value entered choose the > symbol from the qualifier code field. <input type="text" value="&gt;"/>
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# DATA UPLOAD: PROBLEM CODES

Occasionally you may notice that your data is not meeting **quality assurance standards**. When this happens, a problem code needs to be associated with the datapoint. RiverTrends volunteers may add the problem codes A, B, V or C themselves, or the RiverTrends coordinator will add it on the back end when reviewing data.

Code	Name	When should I use this?
A	Calibration or Standardization failed	Do not take your field reading if calibration or standardization fails. If you proceed with a field reading, the data will be flagged with this code.  <b>Dissolved Oxygen:</b> Sodium thiosulfate check failed, reported lower than 9.4  <b>pH:</b> calibration failed (7, 4, or 10 more than 0.20 from standard value)
B	Post-sample check failed	<b>pH:</b> post-sample checks failed (7, 4, or 10 more than 0.20 from standard value)
C	Field replicate out of range	For use by RiverTrends Coordinator <b>only</b>
V	Other Field QA/QC issue	<b>pH:</b> calibration not performed or failed <b>DO:</b> Sodium thiosulfate check not performed, failed or are more than 0.4 mg/L apart <b>Bacteria:</b> incubation time greater than 24 hours, temperature incorrect outside of 38-40°C range
X	No routine sample taken - see comments	If you are unable to record a routine measurement, use X. This <b>must</b> be accompanied by an explanation in the comments section.

## PROBLEM CODE USE SCENARIO

The pH meter post-sample checks were outside of the acceptable range for buffer 10, reading 9.78. This data must now have a problem code associated with it. Find the field reading of the pH value for this sampling event, select the red circle to open the problem code dropdown menu, then select the appropriate code. For this scenario, select problem code B to indicate that the post sample check failed.

The image shows a two-step process for selecting a problem code. In the first step, a text input field labeled 'pH (SU)' contains the value '6.63'. To the right of the input field are three icons: a blue plus sign, a red circle with a white exclamation mark (highlighted with a red box), and a yellow asterisk. A red arrow points from this red circle to a dropdown menu in the second step. The dropdown menu is titled 'If needed, select problem code' and lists the following options: 'A - Calibration/Standardization Failed', 'B - Post-Sample Check Failed' (which is highlighted in dark blue), 'C - Field Replicate out of range', 'V - Other Field QA Issue', and 'B - Post-Sample Check Failed' at the bottom of the list.