



### RiverTrends Program

### Field Data Sheet (includes bacteria monitoring, Hydrolab)

Enter data online: [www.AllianceChesBay.org/monitoring/login.cfm](http://www.AllianceChesBay.org/monitoring/login.cfm)

Once datasheets have been entered, send original forms to:

Alliance for the Chesapeake Bay PO Box 1981, Richmond, VA 23218 Attn: RiverTrends Coordinator

Site Name and #: \_\_\_\_\_

Monitoring date: \_\_\_\_\_ (m/d/yyyy format)

Monitor: \_\_\_\_\_

Time: \_\_\_\_\_ (hh:mm format, military time)

#### OBSERVATIONS/WEATHER

##### Water surface:

- Calm                                       Ripple                                       Waves                                       White Caps

##### Stream flow rate:

- High                                       Normal                                       Low                                       Negligible

##### Weather Type:

- Sunny                                       Partly Cloudy                                       Overcast                                       Fog/Haze
- Drizzle                                       Intermittent Rain                                       Rain                                       Snow

Water Color:     Normal                       Abnormal                      \_\_\_\_\_(Color description)

##### Tidal Stage:

- High                                       Outgoing (Ebb)                                       Low                                       Incoming (Flood)

##### Other Conditions:

- Sea Nettles     Dead Fish                       Dead Crabs                       SAV                       Oil Slick                       Ice
- Debris                       Erosion                       Foam                       Bubbles                       Odor

##### Rainfall:

\_\_\_\_\_mm weekly accumulation (if greater than one week, don't enter data results)

rainfall on day of testing: \_\_\_\_\_mm

rainfall 1 day before testing: \_\_\_\_\_mm

rainfall 4 days before testing: \_\_\_\_\_mm

rainfall 2 days before testing: \_\_\_\_\_mm

rainfall 5 days before testing: \_\_\_\_\_mm

rainfall 3 days before testing: \_\_\_\_\_mm

rainfall 6 days before testing: \_\_\_\_\_mm

Additional Comments (e.g. wind, recent events, anything unusual): \_\_\_\_\_

#### Hydrolab Readings

##### Pre Calibration

SpC: \_\_\_\_\_ mS    pH zero: \_\_\_\_\_    pH Slope: \_\_\_\_\_    DO: \_\_\_\_\_    Theor Sat DO: \_\_\_\_\_

##### Calibration

SpC: \_\_\_\_\_ mS    pH zero: \_\_\_\_\_    pH Slope: \_\_\_\_\_    DO: \_\_\_\_\_    Theor Sat DO: \_\_\_\_\_

##### Post Calibration

SpC: \_\_\_\_\_ mS    pH zero: \_\_\_\_\_    pH Slope: \_\_\_\_\_    DO: \_\_\_\_\_    Theor Sat DO: \_\_\_\_\_

##### Readings

Depth \_\_\_\_\_m    Turbidity \_\_\_\_\_NTU    (Please enter other parameters in appropriate fields on next page, be sure to include meter information.)

(more on reverse)



# RiverTrends Program Field Data Sheet – Page Two

**Has this datasheet been entered on the Alliance's database via the online data entry?**

Yes

No

## Data

**1. Air temperature:** \_\_\_\_\_.\_\_\_\_ ° C (to nearest half degree)

**2. Water Clarity and depth:**

Secchi depth (avrg): \_\_\_\_\_.\_\_\_\_m (to nearest tenth of meter)

Transparency tube: \_\_\_\_\_.\_\_\_\_cm (to nearest tenth of cm)

The actual transparency reading was greater than the value entered (Check box if value > than that recorded)

Depth of Water Column (total depth): \_\_\_\_\_.\_\_\_\_m (to nearest tenth of meter)

**3. Water temperature:** \_\_\_\_\_.\_\_\_\_ ° C (to nearest half degree)

## 4. Salinity

Instrument:

Hydrometer

Refractometer

Meter

(if meter, indicate type/model: \_\_\_\_\_)

Water temperature in Hydrometer jar: \_\_\_\_\_.\_\_\_\_ ° C

Hydrometer Reading: \_\_\_\_ . \_\_\_\_ \_\_\_\_ \_\_\_\_

Calculation of Salinity using hydrometer (Optional – do not need to report): \_\_\_\_\_ ppt

Salinity reading using refractometer or meter: \_\_\_\_\_ ppt

## 5. pH

Instrument: (if meter, indicate type/model: \_\_\_\_\_)

LaMotte narrow range

LaMotte wide range

Meter

Colorfast™ strip

pH value: \_\_\_\_\_.\_\_\_\_ (Std. Units)

## 6. Dissolved Oxygen:

**Sodium Thiosulfate check:** \_\_\_\_\_.\_\_\_\_ mg/L **2<sup>nd</sup> check:** (only if results are < 9.4 or >10.0 \_\_\_\_\_.\_\_\_\_ mg/L)

[NOTE: Do not run DO test if 2 Sodium Thiosulfate check results are not within 0.4 mg/L of each other.]

Instrument: (if meter, indicate type/model: \_\_\_\_\_)

LaMotte test kit

Meter

Test 1 \_\_\_\_\_.\_\_\_\_ mg/L

Test 2 \_\_\_\_\_.\_\_\_\_ mg/L

(Note- Tests should be within 0.6 of each other- if not, perform 3<sup>rd</sup> test and report 2 closest results)

## 7. E. coli Bacteria Measurement (using Coliscan Easygel™ plates)

Were samples collected for state lab comparison? Yes \_\_\_\_ No \_\_\_\_

Rainfall within 48 hours prior to sampling: \_\_\_\_\_ mm or comment: \_\_\_\_\_

Incubation time: \_\_\_\_ hours (to nearest hour)

Incubation temp: \_\_\_\_\_.\_\_\_\_ ° C (to nearest half degree)

Media expiration date: \_\_\_\_\_ Rep1 \_\_\_\_\_ Rep 2

**Amount of water sample added to media bottle (max 5 ml per Rep):** Rep1: \_\_\_\_\_(A1)Rep2: \_\_\_\_\_(A2)

**Total # of purple or dark blue colonies on plate:** Rep1: \_\_\_\_\_(B1) Rep2: \_\_\_\_\_(B2)

Note: disregard any pink, blue-green or white colonies- these are not E. coli bacteria

### To calculate the Total Colonies of E. coli bacteria per 100 ml of water:

1. Divide 100 by the ml of water used. 2. Multiply this quotient by the number of purple colonies counted

Rep1: ([100 ÷ A1] \* B1) = \_\_\_\_\_(C1)

Rep2: ([100 ÷ A2] \* B2) = \_\_\_\_\_(C2)

**Average of both Reps = (C1 + C2) ÷ 2 (Report this value)** \_\_\_\_\_

Comments: \_\_\_\_\_

**Total Time Spent Monitoring:**(Includes travel to and from monitoring site; equipment preparation; sample collection; water's edge time; and time spent filling out data sheets): \_\_\_\_\_ hours (Round to nearest 15 min.)

**Monitor Signature:** \_\_\_\_\_ **Date:** \_\_\_\_\_