**Data Recording Form**

Group members: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Location of site: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Temperature**

Air Temperature: \_\_\_\_\_°C \_\_\_\_\_ °F

Water Temperature: \_\_\_\_\_°C \_\_\_\_\_ °F

Draw a simple map of the site and mark the location (s) where you took the temperature. Include the depths at which you took the temperature and the temperature itself.

Did you have any difficulty taking the temperature because of currents or difficult access (describe)?

Did you see anything at your site that might cause thermal pollution (unnatural water heating), such as a storm drain or industrial discharge pipe?

**pH**

What was your sample’s pH: \_\_\_\_\_

Did you notice anything at the site that may influence the pH level?

**Dissolved Oxygen (DO)**

What was the level of dissolved oxygen in your sample: (1) \_\_\_\_\_\_ ppm.

What is the 100% oxygen saturation level of your sample water (from chart): (2) \_\_\_\_\_\_\_

What is the percentage of oxygen of your sample (#1 + #2=) \_\_\_\_\_

How would you interpret this level of DO?

What factors may affect the level of DO in the water samples?

**Biochemical Oxygen Demand (BOD)**

Parts per million of dissolved oxygen (additional testing days are optional).

Day 1 \_\_\_\_\_ ppm DO from DO#1

Day 2 \_\_\_\_\_ ppm DO \_\_\_\_\_ BOD (DO day 1 – DO day 2)

Day 3 \_\_\_\_\_ ppm DO \_\_\_\_\_ BOD (DO day 1 – DO day 3)

Day 4 \_\_\_\_\_ ppm DO \_\_\_\_\_ BOD (DO day 1 – DO day 4)

Day 5 \_\_\_\_\_ ppm DO \_\_\_\_\_ BOD (DO day 1– DO day 5)

Graph the BOD on a piece of graph paper. Interpret the results.

What might account for the rate of oxygen demand?

**Nitrates**

What was the nitrate concentration of your water sample \_\_\_\_\_ ppm

Did you notice anything at your site that might lead to this nitrogen concentration?

**Total Dissolved Solids and Salinity**

What was the meter reading? (1)\_\_\_\_\_µs

What was the total level of dissolved solids? \_\_\_\_\_ (#1 × 0.5) \_\_\_\_\_ ppm

**Turbidity**

Does the water appear to be turbid (cloudy)(1)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

How many 0.5 mL of turbidity reagent did you add before the clear water looked as cloudy as the water sample?(2) \_\_\_\_\_\_

What was the turbidity in Jackson Turbidity Units (JTUs)? (#2 × 5) \_\_\_\_\_ JTU

Do you observe anything at your site that may make the water turbid? Explain

If your sample was turbid, how long has it been since the last storm?

**Total Coliform Bacteria**

After 48 hours, what color was your sample: \_\_\_\_\_ blue/purple \_\_\_\_\_ yellow

Did your water sample have coliform bacteria present? \_\_\_\_\_ yes \_\_\_\_\_ no

Do you notice anything at your site that might account for the presence or absence of coliform bacteria?