

Doan Brook Watershed Partnership Water Monitoring Instructions

Please follow ALL instructions and call the number below if you have questions.

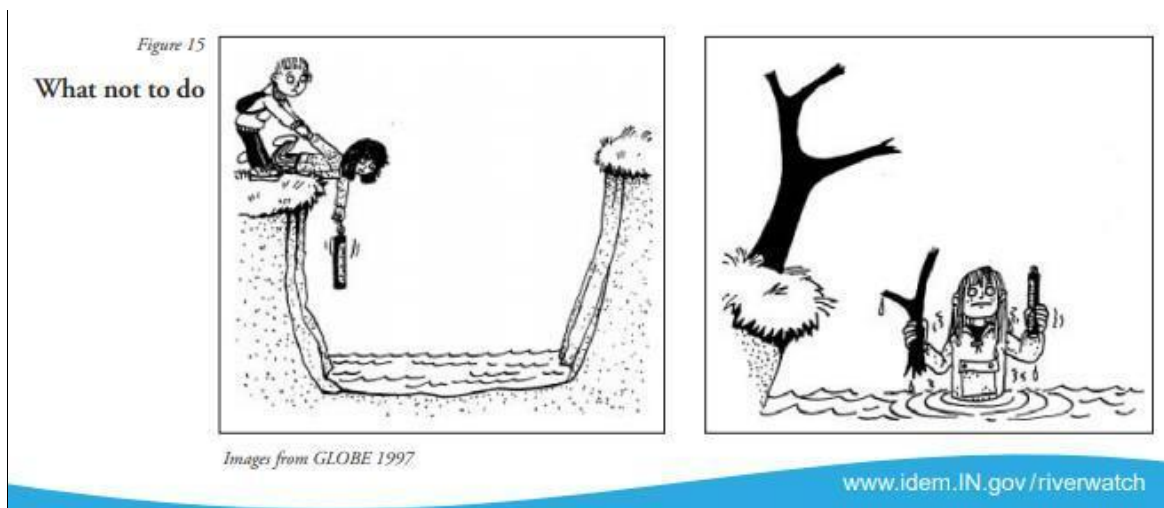
(216) 440-1114

APPROACHING THE BROOK

- Safety is the primary concern. Never sample if it cannot be done safely. Sample with a friend if possible.
- On cold or rainy days refer to INCLEMENT WEATHER instructions you received in training. Do not attempt to break through ice to collect water!

COLLECTING A SAMPLE FROM THE BROOK

- Obtain the Sample Bottle from the supply box.
- Rinse the bottle three times in the stream before taking a sample.
- Collect and fill the bottle with water from a free-flowing area of the brook.
- Cap the sample bottle and place it aside for testing.




pH, CONDUCTIVITY, TOTAL DISSOLVED SOLIDS, AND SALINITY

Equipment Needed: HACH Pocket Pro+ pH Tester (pictured at right)

1. Rinse the sensor. Rinse the sensor lid three times. The lid will be used as a cup for the rest of the procedure.
2. Fill the cup up to the fill line with sample water and place the sensor into it.
3. Hold the bottom button to turn the probe on.
4. Check the top of the screen to see what parameter the Pocket Pro is set to read.
5. Allow the reading to stabilize before recording the reading. **Make sure that you are recording the correct units.**
6. Press and hold down the top button to change what parameter the probe is displaying you. (Be sure to hold until the parameter changes.) You will be able to get **pH, Conductivity, Total Dissolved Solids, and Salinity** readings all from this instrument using a single sample and the → to go to the next reading.



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7. Pour out brook sample, rinse probe, and cap with distilled water and replace cap.
8. Shake off excess water, pat dry with a lint free paper towel and replace the cap.
9. Hold  until power turns off.

DISSOLVED OXYGEN, WATER TEMPERATURE, AND ATMOSPHERIC PRESSURE

Equipment Needed: HACH HQ40D with LDO Dissolved Oxygen Sensor (pictured at right)



1. Turn the instrument on and place the probe on the brook bottom. If there is a riffle, place it downstream of the riffle. (If the cord is not long enough, immerse the probe into the collected sample.)
2. Push the green button for the probe to read the sample. Wait at least 5 minutes for the sensor to turn on and stabilize.
3. Read and record the dissolved oxygen value in mg/L.
4. Read and record the temperature in °C.
5. Read and record the dissolved oxygen saturation value in %.
6. Read and record the atmospheric pressure in hPa.
7. Turn off the meter.

FINAL NOTES

- Dispose of all trash. Place the completed data sheet back in the kit. Turn off all meters.
- Remember to rinse all instrument probes with distilled water before storing.
- Place all equipment and materials into the plastic container; you should have the following:
 - Clipboard with laminated instruction manual you're currently reading.
 - Pen
 - Plastic gloves
 - Sample bottle
 - Squeeze bottle filled with distilled water
 - HACH Pocket Pro+ probe
 - HACH HQ40D with dissolved oxygen probe
 - Lint free wipes
 - Trash sandwich container

PLEASE NOTE AFTER SAMPLING

- The **preferred data entry method** is to enter all data into www.waterreporter.org. See Water Reporter handout you received in volunteer training.
- If you cannot enter data into Water Reporter, send photos of both sides of your datasheet to smith@doanbrookpartnership.org
- If you are unable to do either data entry method above please leave the completed sheet in the kit and email or call us at 216-440-1114. Include the date and station of each sample in your email.

Thank you for all that you do to protect Doan Brook and its watershed!