



Maryland DNR Permit Guide

Save Our Streams monitors conducting biological monitoring in Maryland must obtain an Aquatic Scientific Collection Permit from the Maryland Department of Natural Resources (DNR). Permits cost \$10 and are issued annually. One permit can cover all of your group's monitoring sites for the calendar year.

There are two steps to obtaining a permit:

1. Pay the permit fee on the DNR website* -

<https://www.shopdnr.com/aquaticscientificcollectionpermitfee.aspx>

*be sure to include the name of your monitoring group/organization as the "company" when paying the fee. If monitoring as an individual, list Izaak Walton League.

2. Fill out the Aquatic Scientific Collection Permit Application Google form on the DNR website - <https://dnr.maryland.gov/fisheries/Pages/scientific-collection-permit.aspx>

Aquatic Scientific Collection Permit Application Online

← click this button
on DNR website

See following page for more information on filling out the form.

Once you have completed these steps, DNR will review your application and email you with approval or rejection. Note that **this can take up to 45 days**, so start the process well in advance of your planned monitoring.

At the end of the calendar year, a report of sampling activity is due to fishcollection.dnr@maryland.gov. Your report should include counts of each macroinvertebrate order sampled, site coordinates and descriptions, monitoring dates, and equipment used (Kick-seine or D-frame aquatic dip net).

Filling out the Permit Application Form

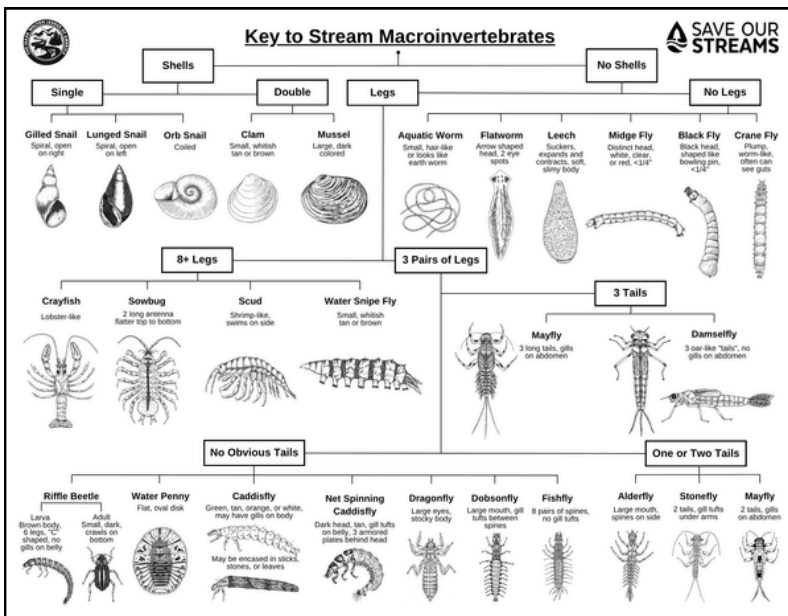
- **Name of Principal Officer:** Name of the certified Save Our Streams monitor who is coordinating your group's permit
- **Title of Principal Officer:** include if applicable, not required
- **Organization:** Name of your monitoring organization. If you are monitoring as an individual, list Izaak Walton League of America as your organization.
- **County where collection will take place:** check all that apply

Project Proposal Section (page 2)

- **Location of collection:** for each of your monitoring sites, include the following
 - Latitude and longitude coordinates
 - Site description
 - At the end of the form there is the option to upload additional files. You may include maps of your site locations screenshotted from the [Clean Water Hub](#) or Google Maps
- **Sampling Gear:** "Kick-seine net" for Rocky Bottom, "D-frame aquatic dip net" for Muddy Bottom
- **Reason for Study:** "Monitors certified in the Save Our Streams biological monitoring protocol will collect a number of macroinvertebrate samples to determine the overall abundance and diversity within the stream. After the collection and identification is complete, the entire sample will be returned to the stream alive."
- **Objectives:** "Use the Save Our Streams biological monitoring protocol to determine the biological health of the stream based on macroinvertebrate abundance and diversity."
- **Justification:** "See the attached "Key to Stream Macroinvertebrates" and data sheets for a more detailed explanation and understanding of the program."
- **Species to be collected:** select "Not Applicable"
- **Additional information on species to be collected:** "Macroinvertebrates will be collected, identified, and returned to the stream alive. See attached "Key to Stream Macroinvertebrates" for types of macroinvertebrates identified."
- **Name other collectors who will be working under the permit:** List any other certified monitors in your group who will be participating in sampling

Filling out the Permit Application Form (continued)

- **Upload files:** We recommend including the following (especially if you mentioned them above!). If uploading doesn't work for you, you can also email the files to fishcollection.dnr@maryland.gov



Key to Stream Macroinvertebrates

VIRGINIA SAVE OUR STREAMS Chesapeake Monitoring Cooperative

Biological Monitoring Data Form for Muddy Bottom Method

Name of Stream: _____ Station ID: _____

Name of Certified Monitor(s): _____

Group/Organization: _____ Number of Participants: _____

Latitude: _____ Longitude: _____

County/State: _____

Survey Date: _____ Start Time: _____ End Time: _____

Description of Site Location: _____

ROCKY BOTTOM SAMPLING

Using a kick-sieve net, take up to four samples in the riffle area of 20 to 90 seconds each (75% of the time rubbing rocks, 25% of the time disturbing the streambed). Adjust the length of the sampling period to ensure you collect at least 200 macroinvertebrates. Write the length of each sampling period in seconds and place a check mark next to the net mesh size used (Note: If sample does not reach 200 organisms, three nets must be 90 seconds for approval).

Net 1 _____ Net 2 _____ Net 3 _____ Net 4 _____ Net Mesh Size: ☐ 1/32" ☐ 1/50"

PHYSICAL CONDITIONS (check all that apply)

Today: ☐ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow

Yesterday: ☐ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow

Day Before Yesterday: ☐ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow

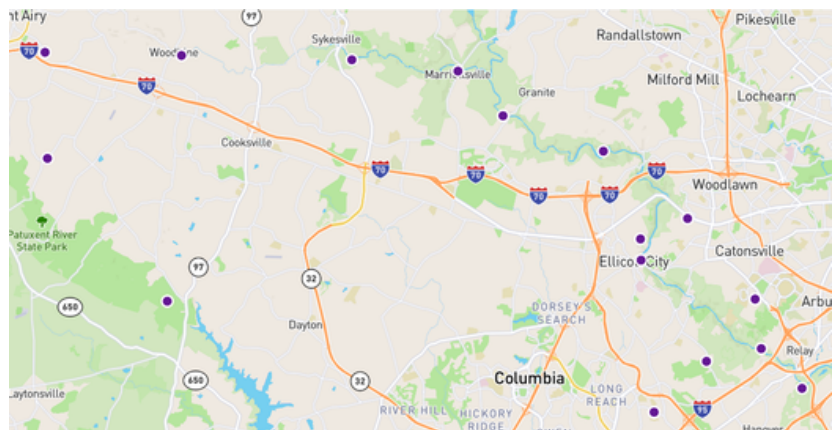
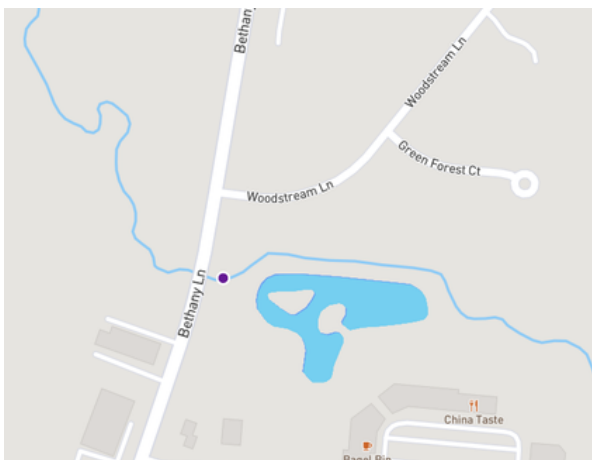
Water Temperature: _____ °C Avg. Stream Width: _____ ft.

Flow Rate: _____ (high, normal, low) Avg. Stream Depth: _____ in.

OTHER COMMENTS

BIOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM STREAMS 1

Data sheets



Screenshotted maps of individual sites and/or groups of sites. You can screenshot these from the [Clean Water Hub](#) or Google Maps.

Questions? Reach out to fishcollection.dnr@maryland.gov or vasos@iwla.org