MBSS Decontamination Procedures for Boots and Equipment



Monitoring and Non-Tidal Assessment Division

Resource Assessment Service

Maryland Department of Natural Resources

MARYLAND
Smart, Green & Growing

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DEPARTMENT OF
NATURAL RESOURCES

Why decontaminate?

- Helps prevent the introduction and spread of nuisance organisms and pathogens

Didymo

Chytrid fungus

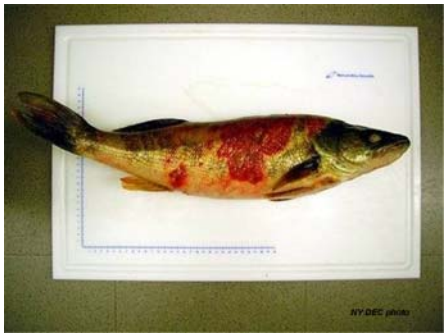
Whirling disease

Box turtle with ranavirus by: Scott Farnsworth

Ranavirus

Largemouth bass virus

Avian influenza



Viral hemorrhagic septicemia

Statewide ban on felt-soled waders went into effect March 21, 2011, in Maryland.

Felt can retain and transfer organisms and pathogens at a higher rate than rubber.*

* Gates, K.K., C.S. Guy and A.V. Zale. 2008. Adherence of Myxobolus cerebralis myxospores to waders: Implications for disease dissemination. North American Journal of Fisheries Management 28: 1453-1458.

Decontaminate all boots and equipment that have come into contact with stream water

-Virkon Aquatic (2% solution)

- 2% solution = 2 scoops per gallon of water
- manufactured by DuPont
- virucide/herbicide
- designed for use in aquaculture facilities
- 10 lb. tub is ~$87

-10% Bleach solution (1 part bleach per 9 parts water)

- disinfect equipment at least 50 yards from water body

-Dry to touch, then dry for another 48+ hours


Clean water rinse after soak


Take boots off before applying cleaning agent
Gilmour
PROFESSIONAL
A sprayer filled with cleaning agent is an easy and effective way to disinfect between sites

- Take boots off before applying cleaning agent
- Disinfect any area that came into contact with water from a stream, lake, etc.

Didymo

Didymosphenia geminata

- Discovered in the Gunpowder and Savage Rivers and spread to Hunting Creek and North Branch Potomac River
- Covers >75% of stream substrate when blooming
- Spreads rapidly
- Feels like wet wool (not slimy like most algae)

Microscopic image of didymo cells

Didymo in the Gunpowder River

If you think you see Didymo...

- In a zip-top bag, place:
  - A sample from the center of the colony/mat with a small amount of stream water
  - A paper label with sample location & collection date in pencil
- Store on ice or in the refrigerator
- Call or email:

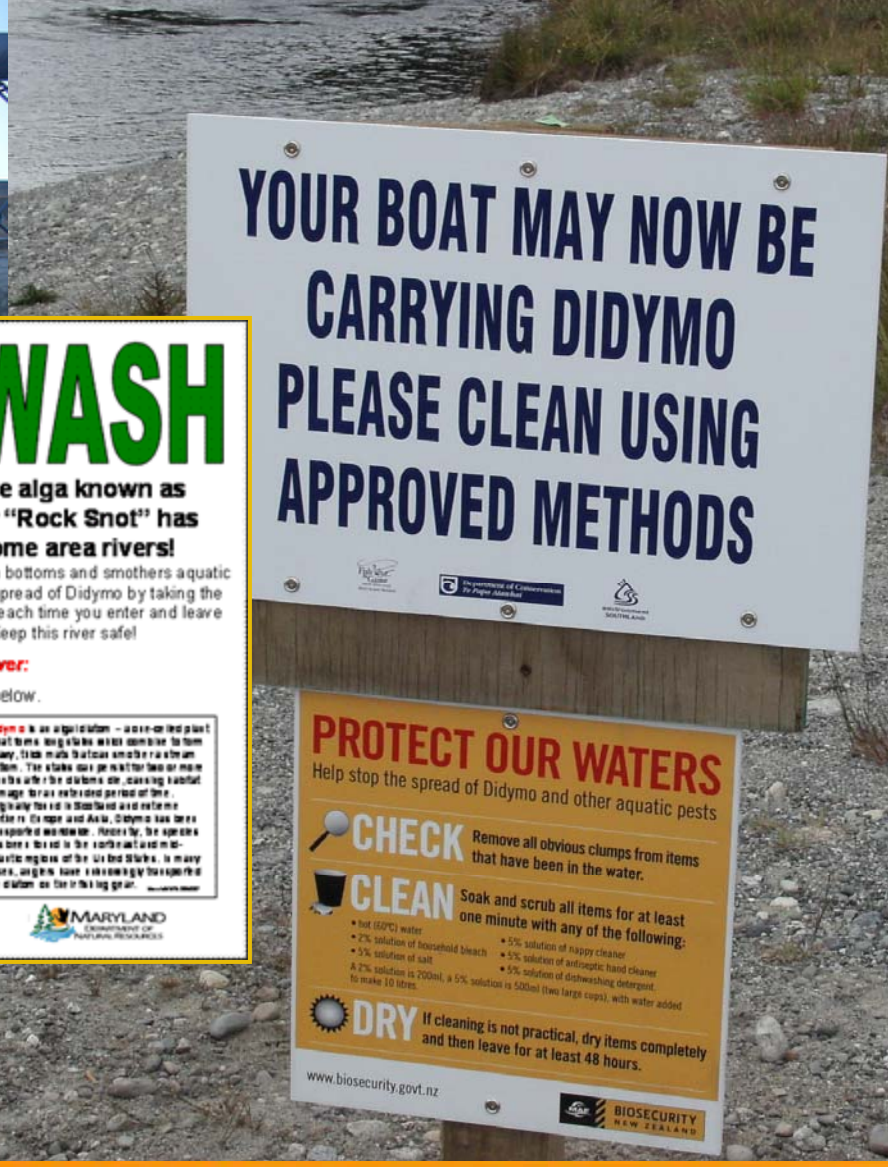
Katherine Hanna

Maryland DNR

khanna@dnr.state.md.us

410-260-8609

Sample must be received by DNR no more than 36 hours after collection



The invasive

STOP ROCK SNOT

After leaving this water:

CHECK – Remove all visible clumps of algae and plant material from fishing gear, waders, clothing, water shoes and sandals, canoes and kayaks, ***and anything else*** that has been in the water.

CLEAN – Using HOT tap water and lots of soap: **Scrub** boats and other "hard" items thoroughly; **Soak** clothes, felt-sole waders and other "soft" items for **30 minutes!!!!**

Get more information:
In Vermont, contact the VT DEC at 802-241-3777
or visit www.vtwaterquality.org
www.dec.state.nh.us/wmb/exoticspecies

Please do your part – Don't Spread Didymo!

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