

Feb 10, 2023

Version 2

Disposal of Environmental Samples from Water Bodies Infested with Zebra Mussels V.2

DOI

dx.doi.org/10.17504/protocols.io.eq2lynzymvx9/v2

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Protocol Citation: Malcolm A Barnard, Stephen Powers 2023. Disposal of Environmental Samples from Water Bodies Infested with Zebra Mussels . **protocols.io** <https://dx.doi.org/10.17504/protocols.io.eq2lynzymvx9/v2> Version created by **Malcolm A Barnard**

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Protocol status: Working

We use this protocol and it's working

Created: August 20, 2022

Last Modified: February 10, 2023

Protocol Integer ID: 68955

Keywords: other potential zebra mussels in the sample water, zebra mussel, other potential zebra mussel, know zebra mussel, disposal of environmental sample, infested water body, sample water, environmental sample, protocol for sample disposal, sample disposal, dreissena polymorpha, invading water body, invasive species, local water treatment facility, water body, water bodies around the united state, sample

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Abstract

Zebra Mussels (*Dreissena polymorpha*) are a highly invasive species that have been invading water bodies around the United States and beyond. This protocol for sample disposal for sample collected from know zebra mussel infested water bodies to prevent spread though local water treatment facilities by bleaching the samples to kill any larvae or other potential zebra mussels in the sample water.

Materials

Bleach (10% Sodium Hypochlorite)

Dishwashing bin to add sample water and bleach

Troubleshooting



Safety warnings

⚠ Do not mix acids and bleach. This will create chlorine gas.

Wear gloves, eye protection, and a lab coat while performing this protocol.



Sample Killing

4h 5m

1 Pour all environmental sample water from bottles into a dish pan.

2 Save the bottles for acid washing

Safety information

Do not add bleach to bottles being cleaned using an acid bath and acid as the combination of acid and bleach produces chlorine gas.

3 Add 50 mL of bleach per 1 L of sample water.

4 Let the bleached sample sit for a minimum of four hours if not until the next day.

4h

Sample Disposal

5m

5 Dispose of bleached sample down drain with excess water or other waste pathway as described by local environmental health and safety guidelines.

6 Save bin for future sample disposal or bleach work.