



Great Lakes Protection Fund

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### Funded Project

# The Effectiveness of Filtration at Minimizing the Uptake and Transfer of Viable Organisms in the Ballast Water of a Commercial Vessel

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Project No.	165
Timeline	1996 – 2005
Award Amount	\$1,316,000
Team Leader	Allegra Cangelosi, Northeast-Midwest Institute, <a href="mailto:acangelo@nemw.org">acangelo@nemw.org</a>

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This project delivered the first installation and assessment of a ballast water filtration system on an operating commercial bulk cargo vessel (*M/V Algonorth*) in the Great Lakes. It allowed for the first comparative evaluation of flow-through secondary ballast-water treatment systems using a stationary barge-based experimental platform. Tested treatment systems to prevent ballast-mediated transfers of nonindigenous species underwent substantial redesign in response to initial results. The project team also developed and refined a set of evaluation criteria that are now the 'the standards to beat' for ballast water treatment systems in the Great Lakes.