

Washington Stormwater Center

2013 Stormwater Treatment Engineering Workshop

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NSF International

NSF International

- ◆ **An independent, third-party, not-for-profit organization dedicated to public health and the environment**
- ◆ **NSF's Traditional Services:**
 - Consensus standards development
 - Third-party product testing and certification
 - Management systems registration
- ◆ **Over 70 American National Standards developed – includes wastewater treatment, water treatment, sustainability standards**
- ◆ **WHO Collaborating Centers - Drinking Water Treatment and Safety and Food Safety**



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ETV Water Quality Protection Center

- ◆ NSF partner with US EPA
- ◆ ETV Stakeholder driven
- ◆ Key elements – scientifically supportable, quality assured testing, independent credible assessment, transparent
- ◆ Purpose – assist technology entrance to marketplace, reduce financial risk, assist permit writers and specifiers



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NSF WQPC Activities

- ◆ **Technology areas – 15**
- ◆ **Stakeholder groups formed – 5**
- ◆ **Technology panels – 15 +**
- ◆ **Testing protocols developed – 20**
- ◆ **Test audits completed – > 50**
- ◆ **Verifications completed – 41**



Ballast Water Treatment Technologies

- ◆ **Separate protocols for land-based and shipboard**
- ◆ **Land-based testing – demonstrate capability to treat ballast water under controlled conditions**
- ◆ **Shipboard testing – demonstrates capability under actual use/operating conditions**
- ◆ **USCG adopted protocols as basis for approval testing**



Recent EPA and Stakeholder Input

- ◆ **Need for a national method of assessment and performance criteria**
 - Consistency, transparency, consensus driven
- ◆ **Growing need and value around green infrastructure, including stormwater**
 - Fit with NSF/ANSI Standard 350 for onsite water reuse treatment systems
- ◆ **Fit with NSF experience in ETV, development of American National Standards, and third-party assessment services**

