

**19<sup>th</sup> International Conference  
on Aquatic Invasive Species  
April 10-14, 2016**

**Watercraft Inspection and Decontamination  
Programs In the Western United States**

**Presented By  
"Quagga D" Davis**

# Funded By



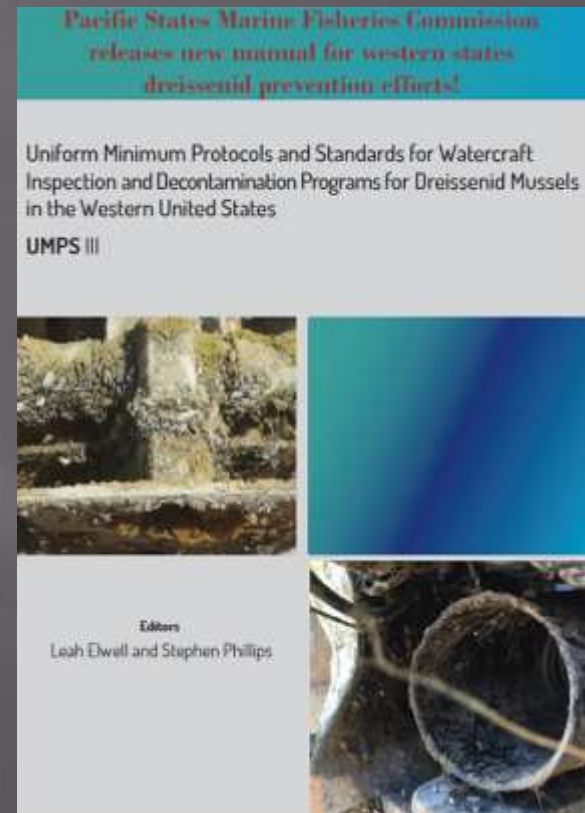
# In Cooperation With



# UMPS – Uniform Minimum Protocols and Standards

- ✓ Created for Western United States '09
- ✓ Revised Version Jan '12 – UMPS II
- ✓ New look – UMPS III just released!

[www.westernais.org](http://www.westernais.org)



# Zebra/Quagga Mussels are a significant Aquatic Invasive threat to the WEST



# WIT/WID Objective

Course designed for those who are implementing Watercraft Inspection and/or Decontamination programs for their respective agencies, organizations or businesses.



WIT I – Inspection

WIT II – Inspection/Decontamination

WIT III – Trainer Training

# Training Components

## ▣ Student Curriculum

- **Introduction** and Western AIS Programs
  - ▣ Purpose
- Zebra/Quagga and Other AIS **Biology**
  - ▣ Life Cycle and Vectors
- Watercraft Anatomy and **Risk Assessment**
  - ▣ Identify low/high risk vessels
- **Inspection** Procedures
  - ▣ NO Mud, Plant, Animals or Water
- **Decontamination** Procedures
  - ▣ KILL and Remove



# Practice Skills

- **REVIEW** Homework via Power points
- **HANDS ON** Training of boat anatomy
- **HANDS ON** Training of inspection procedures
- **HANDS ON** Training of decontamination procedures
- Standard Exam
  - 80% or Better



# WIT I Watercraft Inspection Training

- ▣ WIT I – Inspector
  - Entrance/Exit Inspections
  - Prevention/Containment
  - **HIGH Risk** Inspections
  - Step By Step Procedures

How to inspect and why we  
Need to educate boaters on



Clean, Drain & Dry!!



# WIT II Watercraft Inspection and Decontamination Training (WID)

- ▣ Delivered over 2 days:
  - Focus on Additional Inspection practice
  - Triggers and Step-By-Step procedures of Decontaminations on various types of vessels.



# What Does Decon Consist Of?

- ▣ Hot Water to Kill
- ▣ Low pressure to flush
- ▣ High pressure to remove
  
- ▣ Based on Scientific Research
  - 140°F rinse for 10 seconds kills adult mussels
    - ▣ *Morse, 2009*
  - 95°F kills veligers
    - ▣ *Craft and Myrick, 2011*



# Decontamination Equipment Safety and Operations

Environmentally Friendly Mobile Wash and Reclaim System  
ECOS - 7000

Recovers, cleans and recycles the water  
Meets most municipal and environmental regulations



# WIT III - Trainers

Trainers must learn WHAT information is available  
(Student Manual)

HOW to apply the information (Trainer Manual) and

WHY the procedures must be understood in order to be of  
benefit to them. (Effective Adult Learning)

- Consistent in fundamentals of WIT/WID in their local Program. (Laws/Rules)

# Prevention/Containment

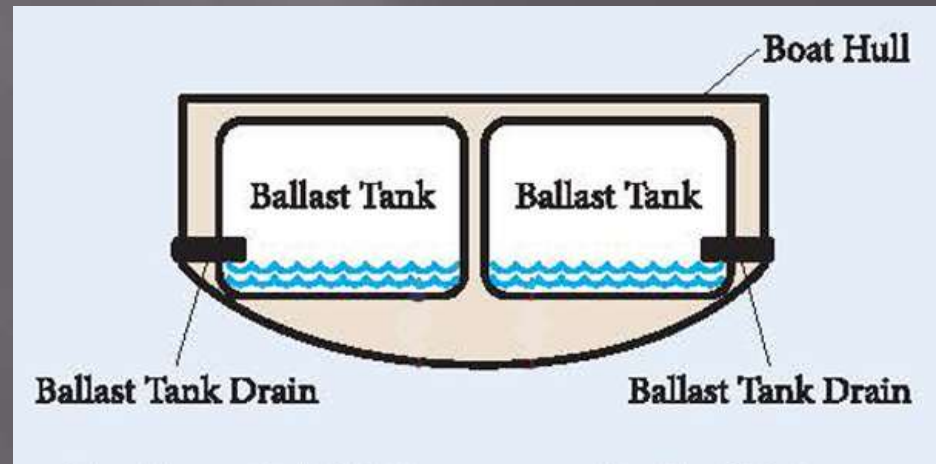




# Partnerships



- ▣ ABYC – American Boat and Yacht Council  
Technical Report T-32
- Boat Design and Construction in Consideration of AIS



# QUESTIONS ?



Lake Mead Quagga Updates



Lake Mead Quagga

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**Watercraft Inspection Training program**

<http://www.westernais.org/>

*See training Tab*