

# Welcome!

May 21-22, 2014

**Chas Ariss, PE**

Wastewater Program Engineering Manager

## **2014 DEQ WATER REUSE CONFERENCE 10<sup>TH</sup> ANNIVERSARY**

# DEQ Wastewater Program Staff

- ◎ *Chas Ariss, PE*
  - Program Engineering Manager
- ◎ *A.J. Maupin, PE*
  - Program Lead Engineer & Enforcement Coordinator
- ◎ *Tyler Fortunati, REHS*
  - On-Site Wastewater Program Coordinator
- ◎ *Paul Wakagawa, PE*
  - Reuse Permit Engineer/Coordinator
- ◎ *Tressa Nicholas, MSCE*
  - Wastewater Analyst, Biosolids, Seepage Testing
  - Training & Conference Coordinator
- ◎ *Janette Young*
  - Administrative Assistant/Conference Assistant
- ◎ *Brenda Valverde*
  - Conference Registration Coordinator
- ◎ *Janet Trumbull*
  - Conference Graphics

# DEQ Wastewater Program Staff Engineering Interns

*Justin Carroll, EI*  
*Melissa Hill*  
*Emily McClintock*

# DEQ Regional Office Permitting Engineers

## *Coeur d'Alene Regional Office*

- *John Tindall, PE – Engineering Manager*
- *Matt Plaisted, PE*
- *Colin Nakke, EI*
- *Chris Westerman, EI*

## *Lewiston Regional Office*

- *Michael Camin, PE – Engineering Manager*
- *Nicholas Hiebert*

## *Boise Regional Office*

- *Todd Crutcher, PE – Engineering Manager*
- *Gary Carroll, PE*
- *Valerie Greer, PE*

## *Twin Falls Regional Office*

- *David Anderson, PE – Engineering Manager*
- *Jerimiah Fenton, EI*

# DEQ Regional Office Permitting Engineers

## *Pocatello Regional Office*

- *Tom Hepworth – Engineering Manager*
- *Scott MacDonald, PE*
- *Justin Carroll, EI (starting in June 2014)*

## *Idaho Falls Regional Office*

- *Greg Eager, PE – Engineering Manager*
- *Tom Rackow, PE*
- *Charlie Mazzone, PE*

## *Technical Services – State Office*

- *Mike Spomer & Mike Stambulis, PE – Discipline Leads*
- *Larry Waters, PE*
- *Dennis Meier, PE*
- *Adam Bussan, EI*
- *Jen Cole*

# Reuse Water Facts for Idaho

- Wastewater Land Application Permit Program began in 1988
- 1st Municipal Reuse Permits Issued in 1989
- 1st Industrial Reuse Permit Issued in 1990
- 1992 – 2 DEQ Staff in Reuse; 2013 – 24 Staff
- Over 4 Billion Gallons of Water are Recycled in Idaho Annually (2011 Annual Reports)
- Water Recycled in Idaho accounts for reuse of
  - ~2,340 Tons Nitrogen
  - ~505 Tons Phosphorus
  - Fertilizer Equivalent Offsets Reuse Costs by \$1.3MM

# Idaho Reuse Definitions

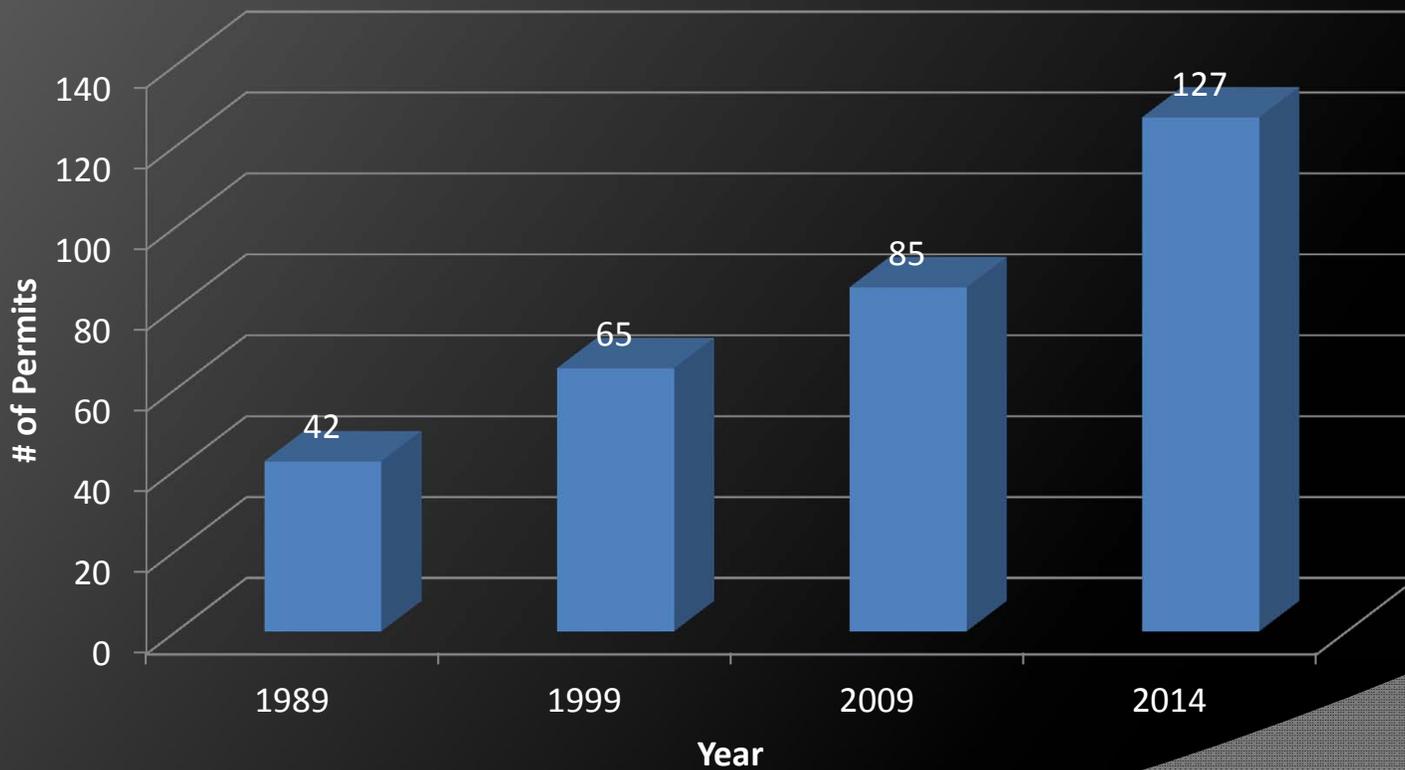
- ◎ DEQ Wastewater Rules define **Reuse** as - *“The use of reclaimed wastewater for beneficial uses including, but not limited to, land treatment, irrigation, ground water recharge using surface spreading, seepage ponds, or other unlined surface water features.”* IDAPA 58.01.16.010.71
- ◎ DEQ Recycled Water Rules define **Reuse** as – *“The use of recycled water for, irrigation, ground water recharge, landscape impoundments, toilet flushing in commercial buildings, dust control, and other uses.”* IDAPA 58.01.17.200.35
- ◎ DEQ supports Water Reuse in Idaho in **ALL** forms!

# Idaho Water Reuse Terminology

- Wastewater *versus* Recycled Water
  - **Wastewater** refers to all municipal and industrial waters that have served one or more prior uses and requires treatment and disposal (IDAPA 58.01.16.010.89)
  - **Recycled Water** refers to that subset of wastewater that has been treated to a level suitable in quality for additional use(s) (IDAPA 58.01.17.200.33)
- Idaho DEQ issues **Reuse** Permits for **Recycled Water**

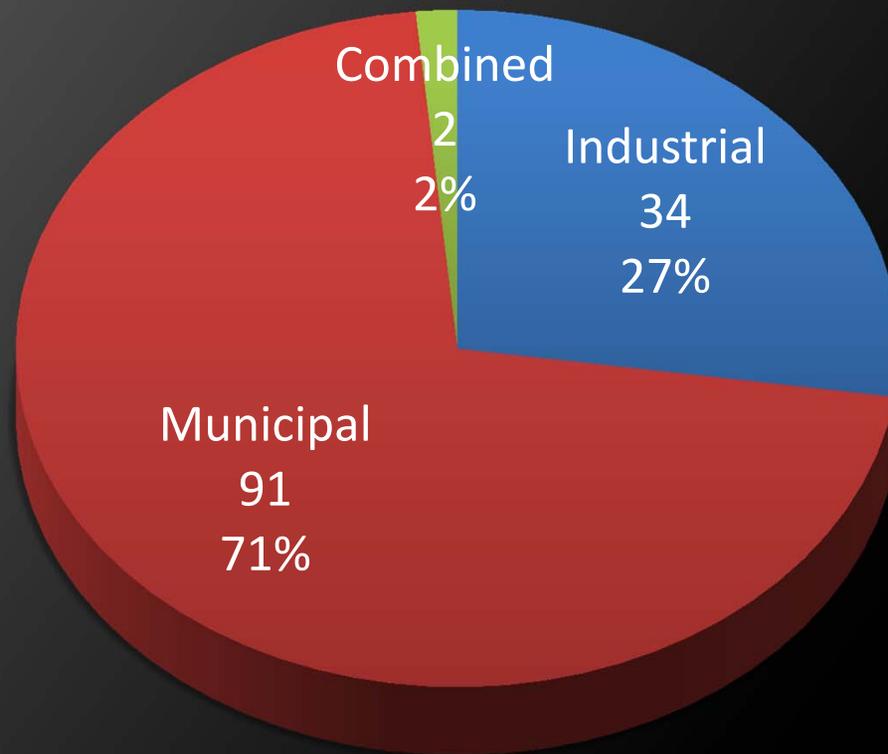
# Reuse Growth In Idaho

## Active Reuse Permits



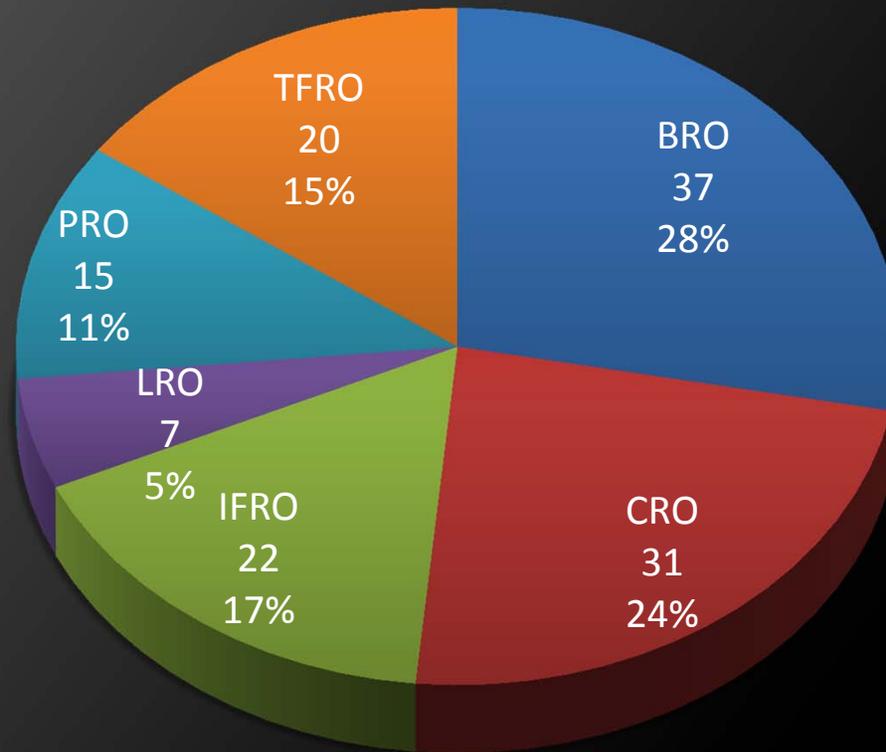
# Active Reuse Permits Statewide

## 127 Permits Statewide by Type



# Active Reuse Permits Statewide

## Statewide Permits by Region

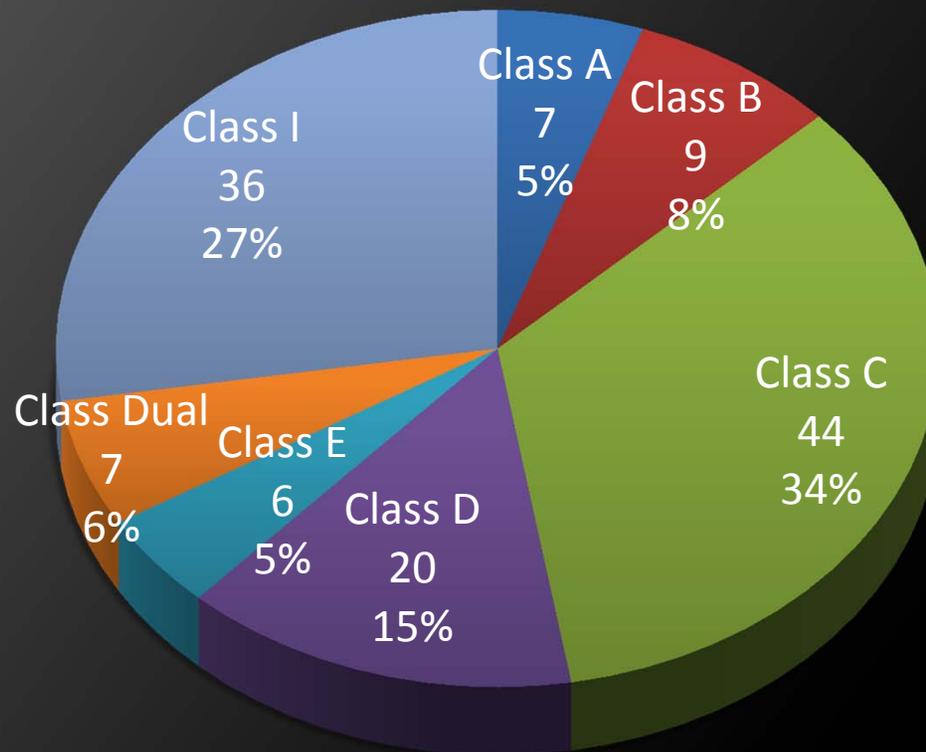


# Classes of Recycled Water in Idaho

- Five Classes of Municipal Recycled Water
  - Class A – E
  - Classifications are based on level of wastewater treatment & disinfection
- No Classifications apply to Industrial Recycled Water

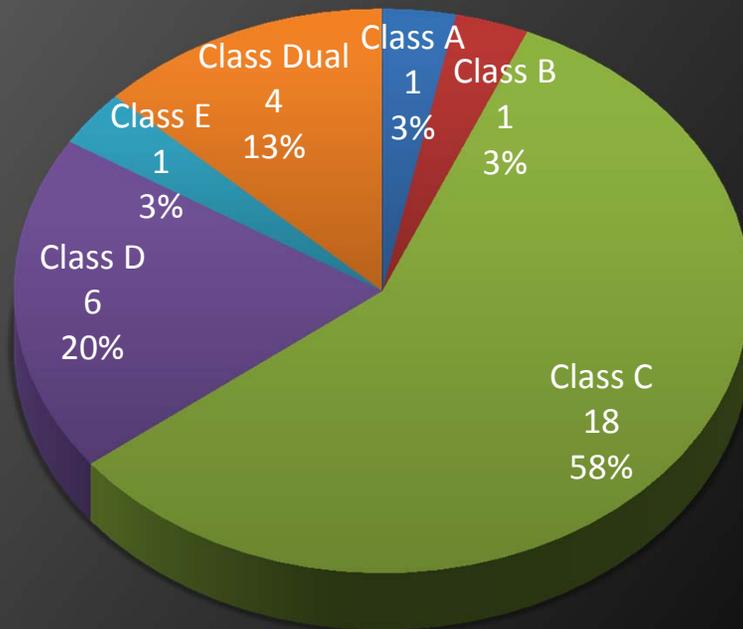
# Idaho Reuse Permit Classifications

# Permits by Recycled Water Class Statewide

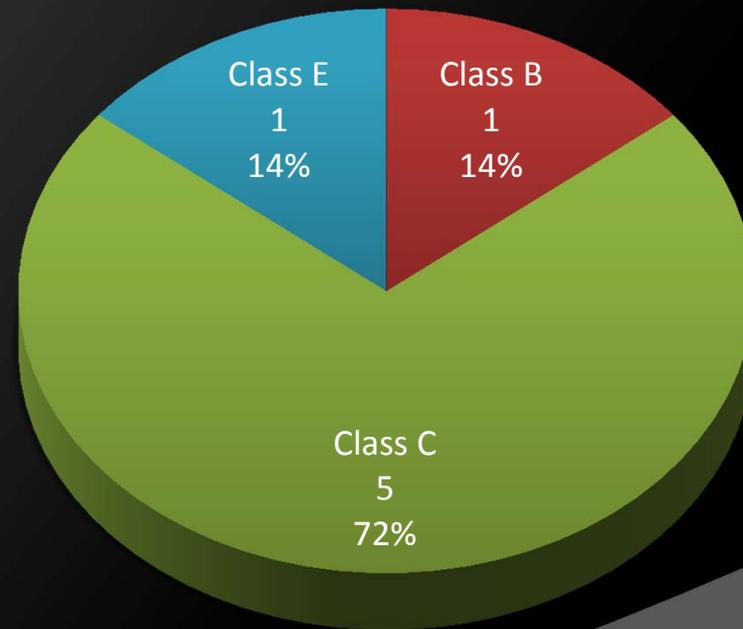


# Regional Reuse Permits by Class

## Coeur d'Alene Region

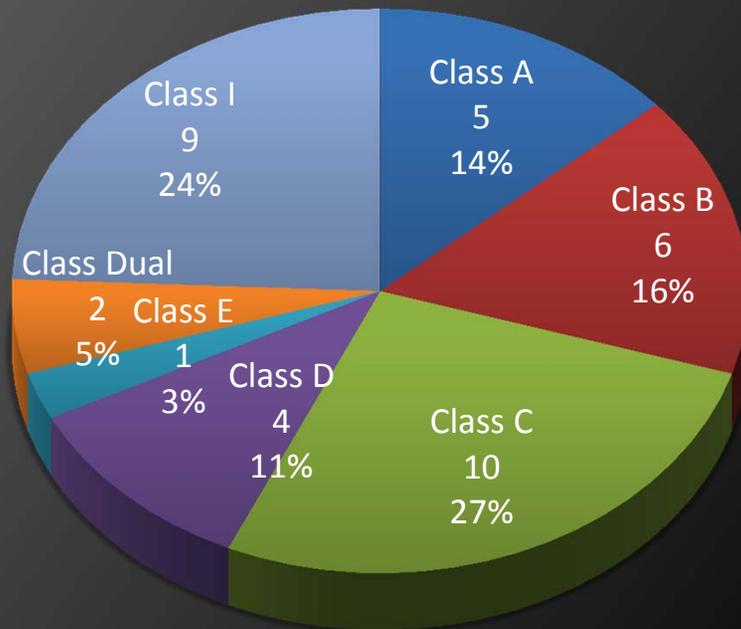


## Lewiston Region

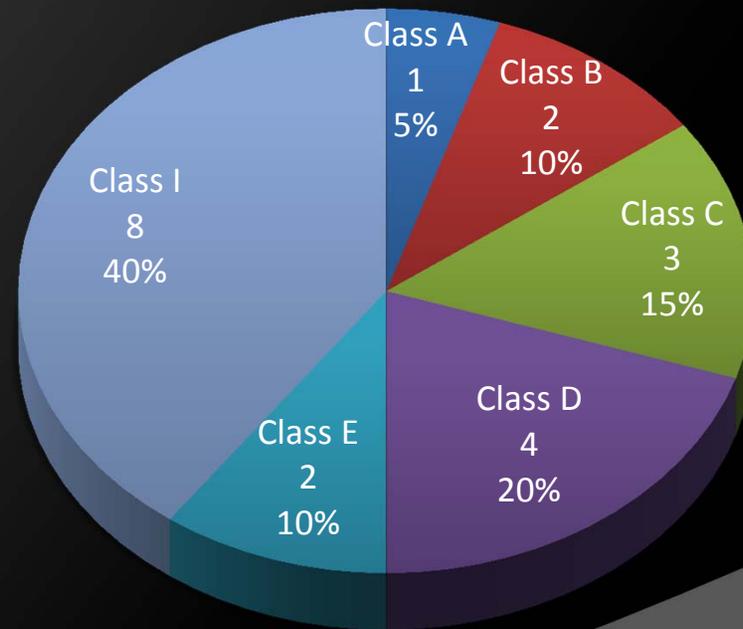


# Regional Reuse Permits by Class

## Boise Region

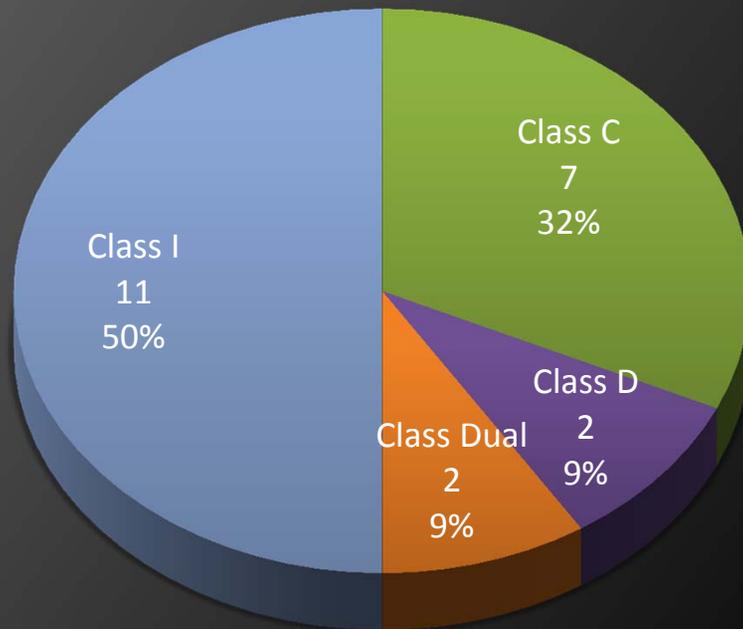


## Twin Falls Region

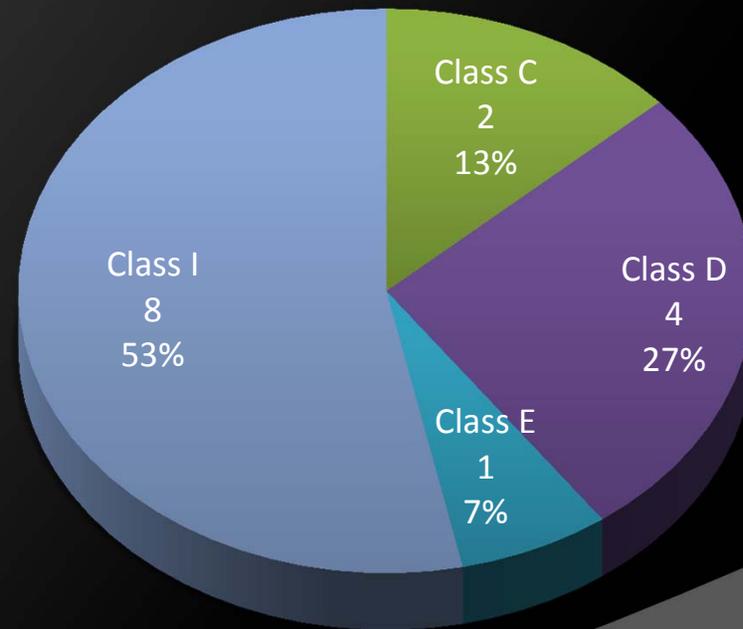


# Regional Reuse Permits by Class

## Idaho Falls Region



## Pocatello Region



# Types of Industrial Reuse Permits in Idaho

- Potato Processing
- Sugar Beet Processing
- Cheese
- Other Vegetables (Onions, Peppers)
- Animal Rendering
- Other (Idaho National Laboratory)

# Relationship to Ground Water Quality Rule (IDAPA 58.01.11)

- All Reuse Permits in Idaho must comply with Ground Water Quality Rule Standards
- Only Class A Systems may perform GW Recharge
- Class A Systems performing GW Recharge must meet
  - 10 mg/L Total Nitrogen Limit (Alt = 30)
  - 5 mg/L BOD<sub>5</sub> Limit (Alt = 10)
  - pH Limit is 6.0-9.0 S.U.
- Class A-D Systems may perform Subsurface Distribution (IDAPA 58.01.03)

# Program Activities

- Issued 27 New/Renewed Reuse Permits in SFY2014
- Backlog Reduction
- “New” & Revised WWLA Operator Training Manual
- New & Revised Land Application Operator Certification Exam

# Program Activities

## WWLA Operator Training Manual

- Completely Revised & Reorganized
- Tracks with current Wastewater and Recycled Water Rules
- Highlights Essential “Need to Know” Information
- Training Class in Preparation
  - ✓ 1<sup>st</sup> Class Offering will be in early Fall 2014
  - ✓ Plan to offer class quarterly for 1<sup>st</sup> year
  - ✓ Encourage Everyone involved in Water Reuse in Idaho to Attend
  - ✓ Class will convey essential information on DEQ Requirements & Expectations

# Program Activities

## WWLA Operator Certification Exam

- 335 Questions
- ½ have been revised/updated to track with new manual & current Recycled Water Rules
- 30 New questions focused on Compliance Assistance

## Relationship between DEQ, IBOL & ABC

- DEQ sets operator requirements based on system classifications
- IBOL oversees operator licensure
- ABC administers operator licensing examinations

# Welcome Again & Thanks for Attending!

- Questions?
- Wastewater Program Staff will be here throughout Conference
- DEQ Booth in Vendor Display Area
- Reception Tonight!
  - Thanks to All our Sponsors!