American Water Works Association (AWWA)

- Nonprofit scientific and educational association dedicated to managing and treating water
- Founded in 1881
- 50,000 members
- Oldest and largest organization of water professionals in the world
- “Dedicated to the World's Most Important Resource”

“AWWA recognizes the need for sustainable water supply resources …
AWWA recognizes the value of high quality reclaimed wastewater - properly treated to appropriate standards - as a sustainable supplement to a region’s water supply portfolio. …
AWWA encourages continued research to assess potential public health and safety impacts, improve treatment technology, refine monitoring techniques, expand applications, and further develop health-based standards that ensure the increased and safe use of reclaimed water for the public.”
AWWA Standards

Management standard for reclaimed water utilities, ANSI/AWWA G481-14, includes:

• Definitions
• Management programs / customer considerations
• Source water metering & monitoring considerations
• Operational considerations
• Distribution & delivery
AWWA Standards

- 172 ANSI/AWWA Standards
- 60+ product standards include provisions applying to reclaimed water (treatment chemicals, pipe, valves, meters, etc.)
- Work initiated on a utility management standard for “Direct Potable Reuse Program Operation and Management”
AWWA Manual

- Manual of practice, M24
- Covers uses, regulations & guidelines, planning, design of treatment & distribution, management, and financial issues
Other AWWA Reuse Resources

• Books and DVD’s

• AWWA's Resource Communities – Water Reuse
Reuse
RESOURCE COMMUNITY

Reuse
This AWWA Resource Community is intended to keep the water industry informed about resources, tools, issues and developments related to reclaimed water. If you have any question or ideas you would like to share, please submit them to AWWA.

Reuse Essentials
- Greywater
- Potable Reuse (Indirect and direct)
- Public Education and Outreach
- Research
- Technology
- Volunteer / Committees

Hey Students
If you’re pursuing a degree in this field, take a look at the wide range of scholarships available from AWWA and our partners.

Full list of scholarships

Events calendar
German American Water Technology Roundtable in Pittsburgh

Featured Event
WATER INFRASTRUCTURE Conference
Clearly Better
White Paper on Graywater

Jointly sponsored by WateReuse Assoc., AWWA, & WEF (published 2010):

• Identify Issues
• Assess impacts of rising trends
• Develop a regulatory and policy framework
Standards Needs – General

• Coordination among standards developing organizations is essential
• Need for standardization of ongoing practices (e.g. consistent definition of graywater)
Standards Needs – Health & Safety

• Health and safety is an important priority consideration for on-premise reuse (backflow, fostering appropriate uses and discouraging inappropriate uses)

• Encouraging graywater reuse options that minimize human contact (e.g., landscaping, toilet flushing, etc.).

• Re-visioning interior plumbing of structures to safely incorporate water conservation and reuse strategies without unintended consequences
Standards Needs – Color Code

- Pipe Color Coding
  - Purple pipe established for distribution of municipally treated reclaimed water
  - Concern for cross connections and resulting public exposure if graywater or any alternate on-site water source uses purple pipe
Thank you to ASPE for organizing this workshop and promoting coordination on water reuse