



Water Reuse Public Outreach and Education

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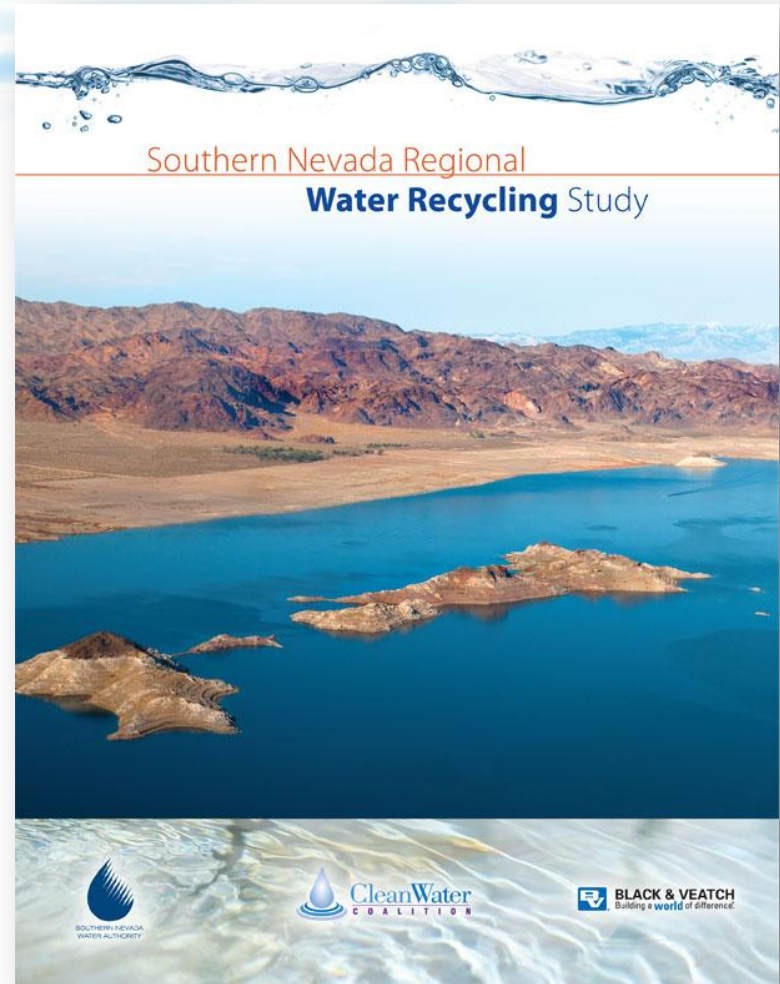
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Study Elements

- Examine worldwide use of recycled water
- Reevaluate goals for the use of recycled water on a regional level
- Balance use of potable water, recycled water and conservation
- Evaluate public opinion regarding recycled and graywater use
- Provide policy recommendations



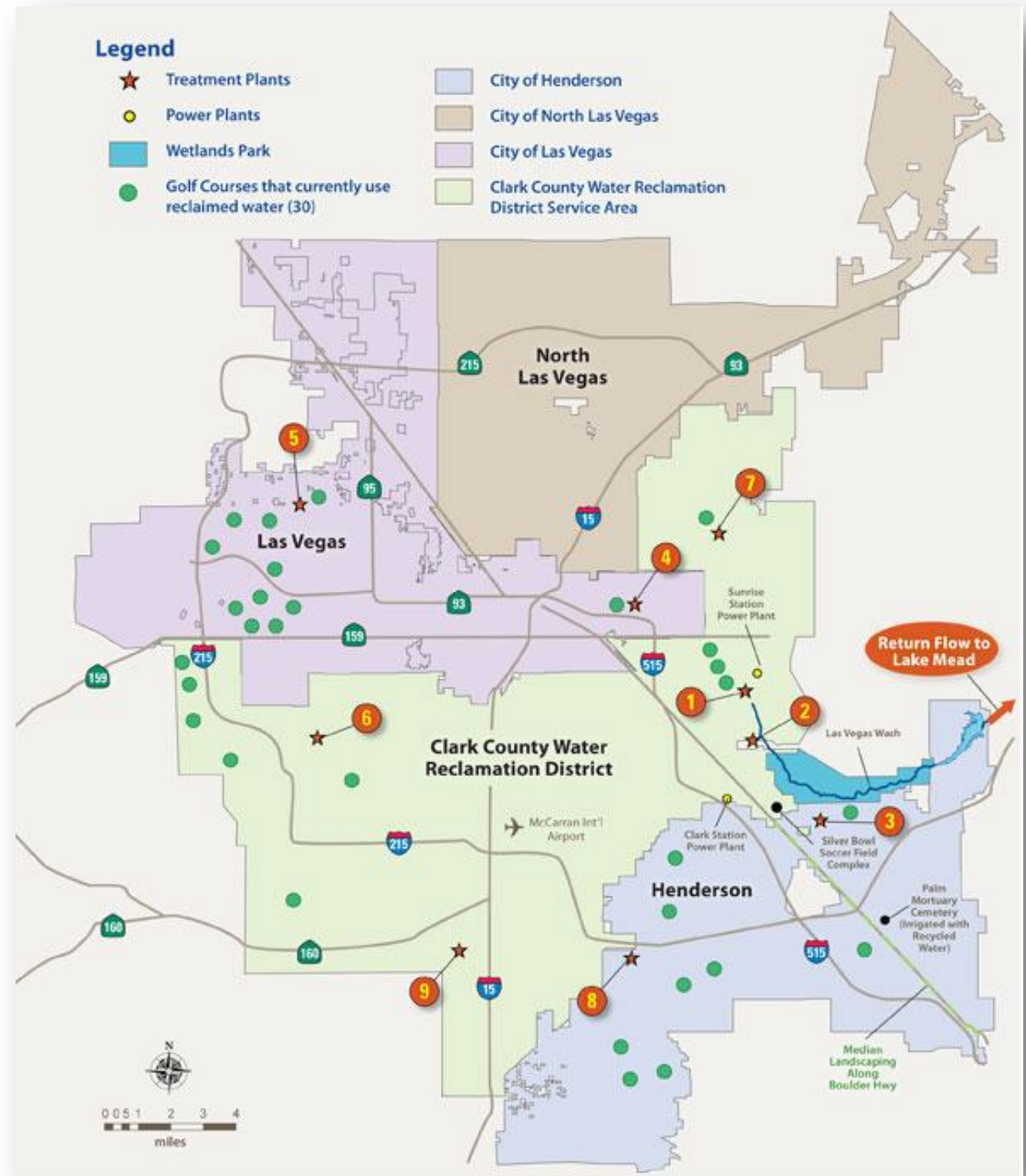
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for governing boards



Las Vegas Valley Facilities

Facility	Capacity (mgd)
1 City of Las Vegas Water Pollution Control Facility	91
2 Clark County Water Reclamation District	110
3 City of Henderson Kurt R. Segler Water Reclamation Facility	32
4 City of Las Vegas Bonanza Mojave Water Reclamation Facility	1
5 City of Las Vegas Durango Hills Water Resource Center	10
6 Clark County Water Reclamation District Desert Breeze Water Resource Center	5
7 City of North Las Vegas Water Reclamation Facility (Future)	25-50
8 City of Henderson Southwest Water Reclamation Facility (Future)	8-16
9 Clark County Water Reclamation District Enterprise Water Resource Center (Future)	15-25

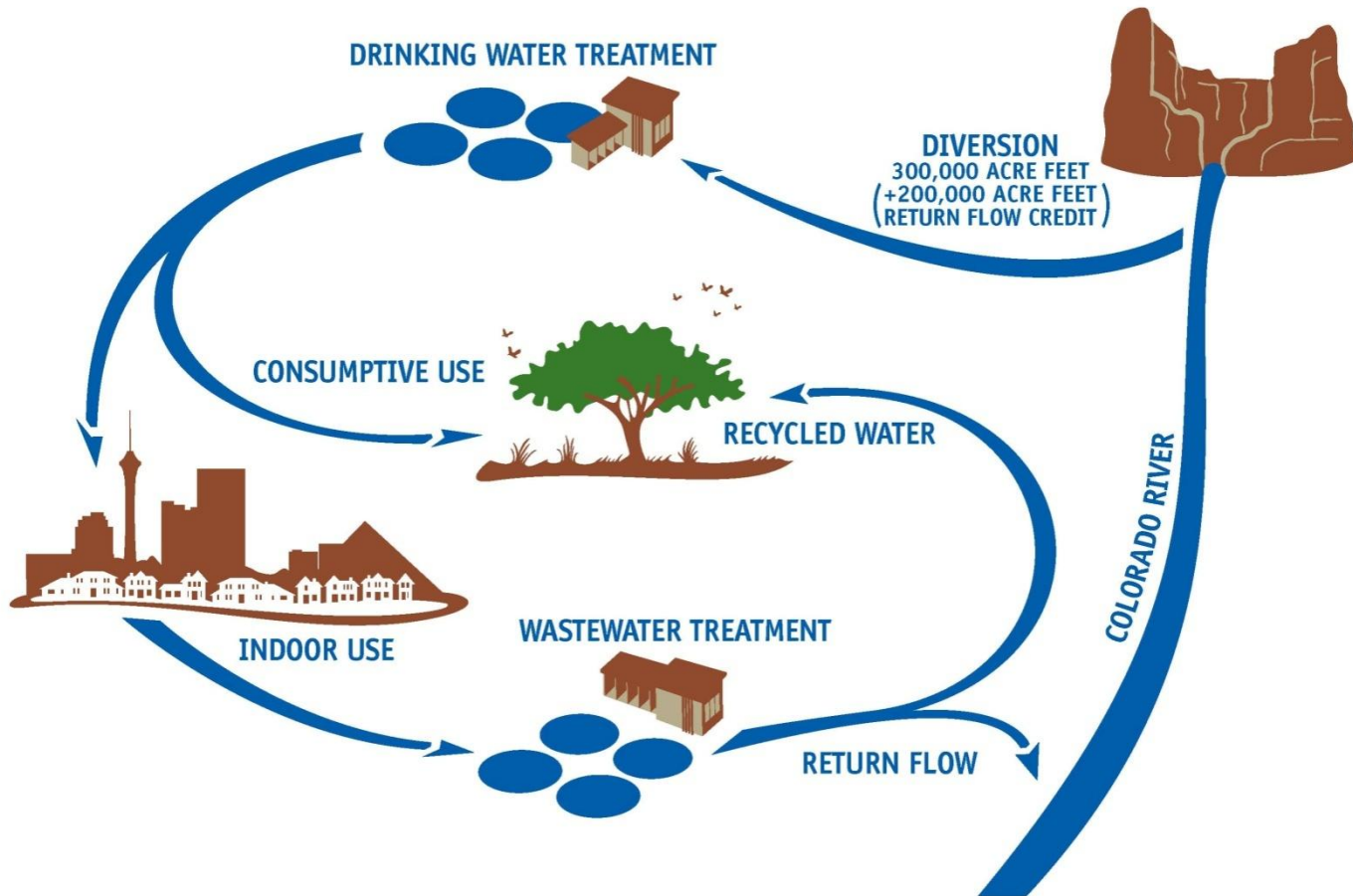


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Water Recycling Today



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Stakeholder Research

49 Interviews

- Government
- Development
- Business
- Green industry
- Others



Key issues

- Safety of recycled water
- Cost/benefit of recycled water
- Health and safety of graywater
- Return flow credits
- Public outreach needed
- Aggressive programs to protect water quality/supply

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Key Definitions

- **Recycled Water** is water that has been used and subsequently treated to make it suitable for use again.
- **Graywater** is water from bathing, laundry and bathroom sinks that is used without treatment.

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Public Outreach Challenges

1. Flush and forget
2. Acceptable uses
3. Who's in charge?

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Challenge #1: The “yuck factor”

FLUSH AND FORGET

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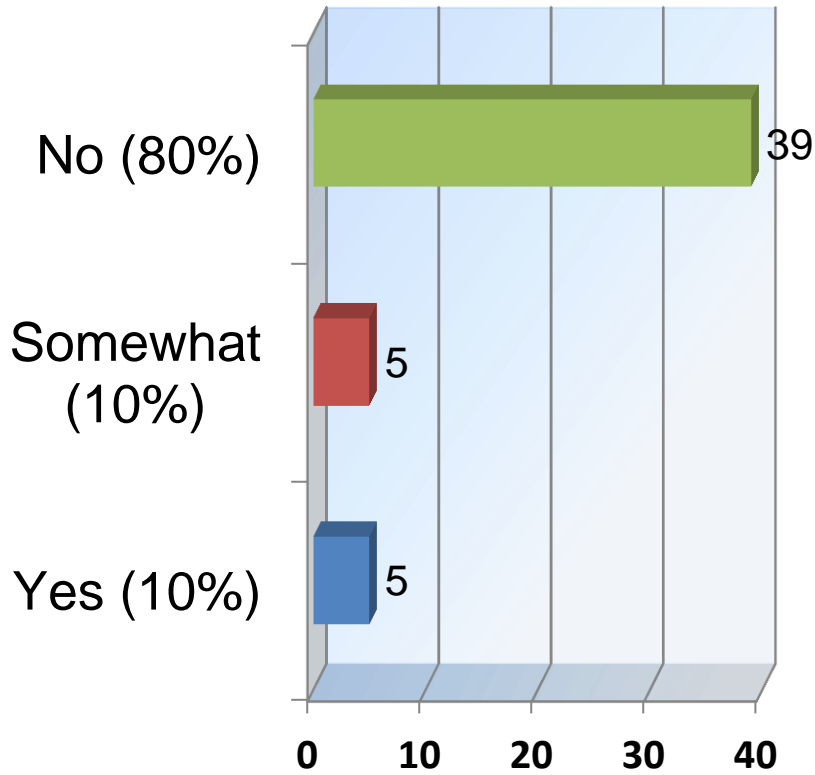
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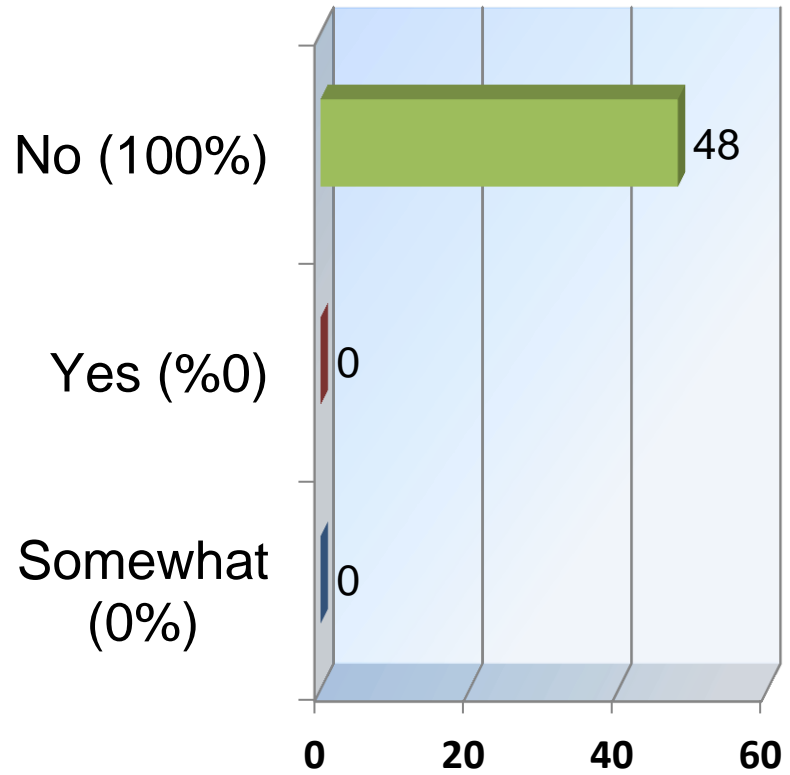


Do People Understand...

Water Supply?



Water Cycle?



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Water Quality

Cities

- Miami, FL
- San Francisco, CA
- Philadelphia, PA
- Portland, OR

Cities

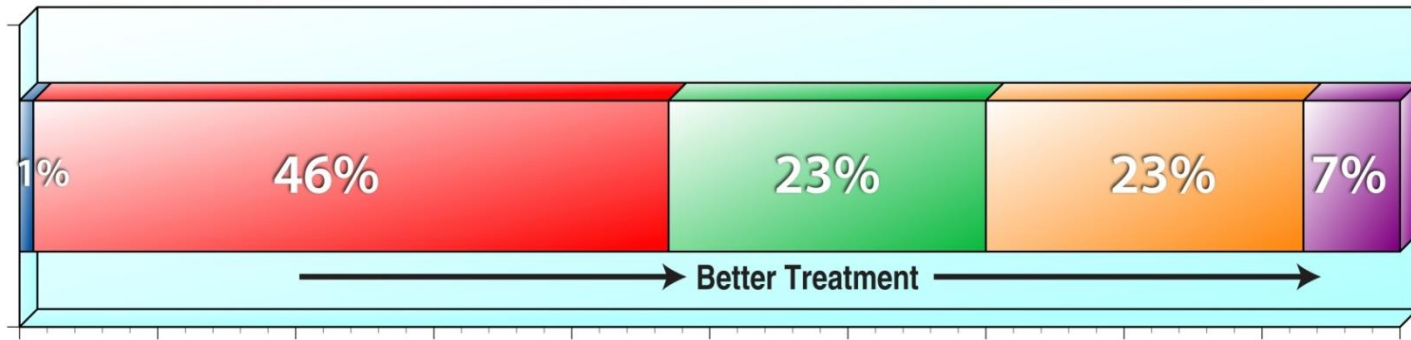
- Denver, CO
- New York City, NY
- Houston, TX
- Chicago, IL

Cities

- Los Angeles, CA
- Phoenix, AZ
- Atlanta, GA
- Dallas, TX

Cities

- Las Vegas, NV
- Scottsdale, AZ
- Placerville, CA
- El Paso, TX



- Primary
- Secondary
- Advanced Secondary
- Tertiary
- Advanced Tertiary*

* Advanced Tertiary treatment includes at least four of the following: nitrification, denitrification, BNR, filters, and chemical treatment

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Challenge #2: Would you, could you...?

ACCEPTABLE USES

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Would you support the use of
reclaimed water in...

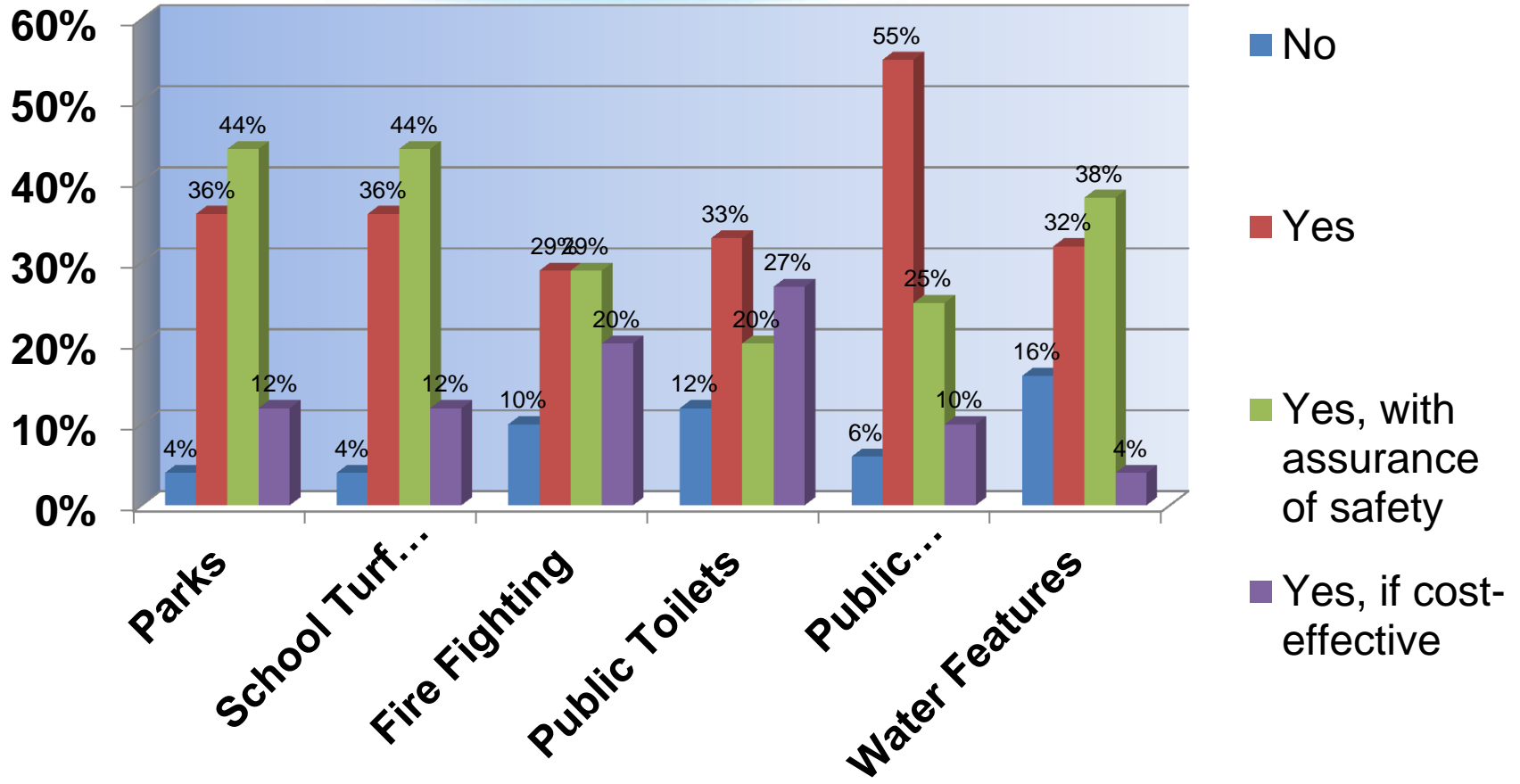
- Parks
- School turf areas
- Fire fighting
- Toilets in public buildings
- Landscape for public buildings
- Water features

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Acceptable Uses

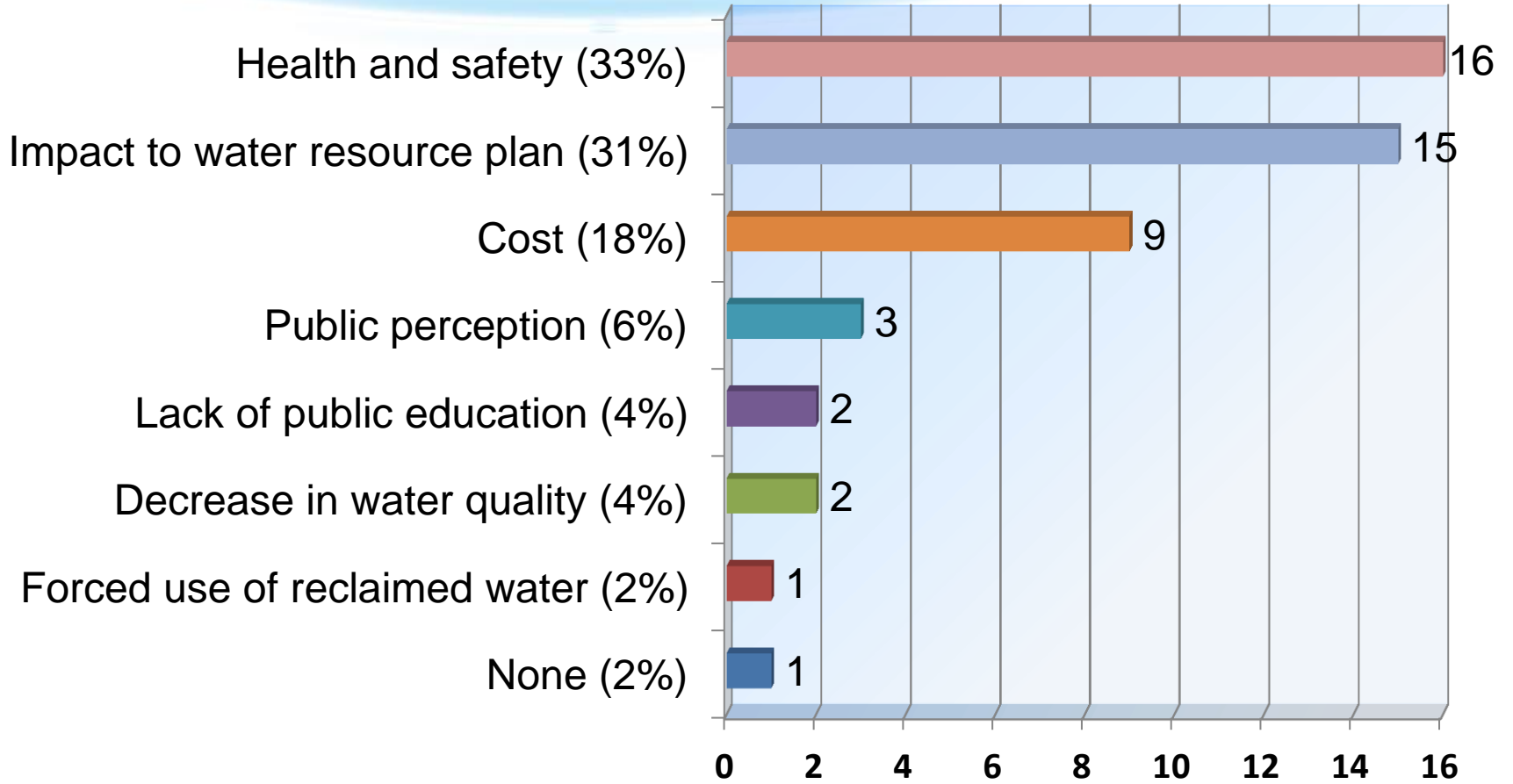


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Your #1 concern



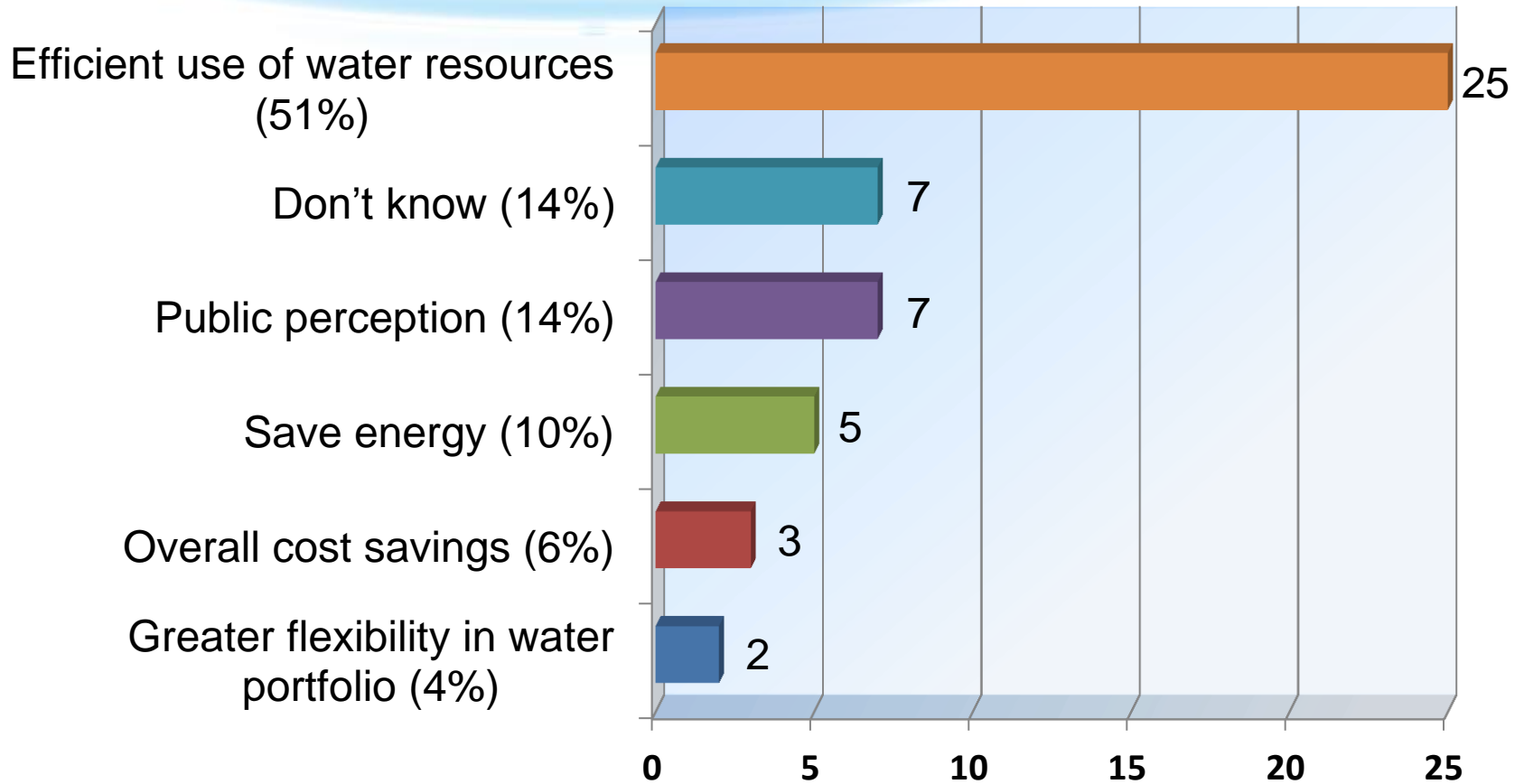
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Greatest benefit of reuse?

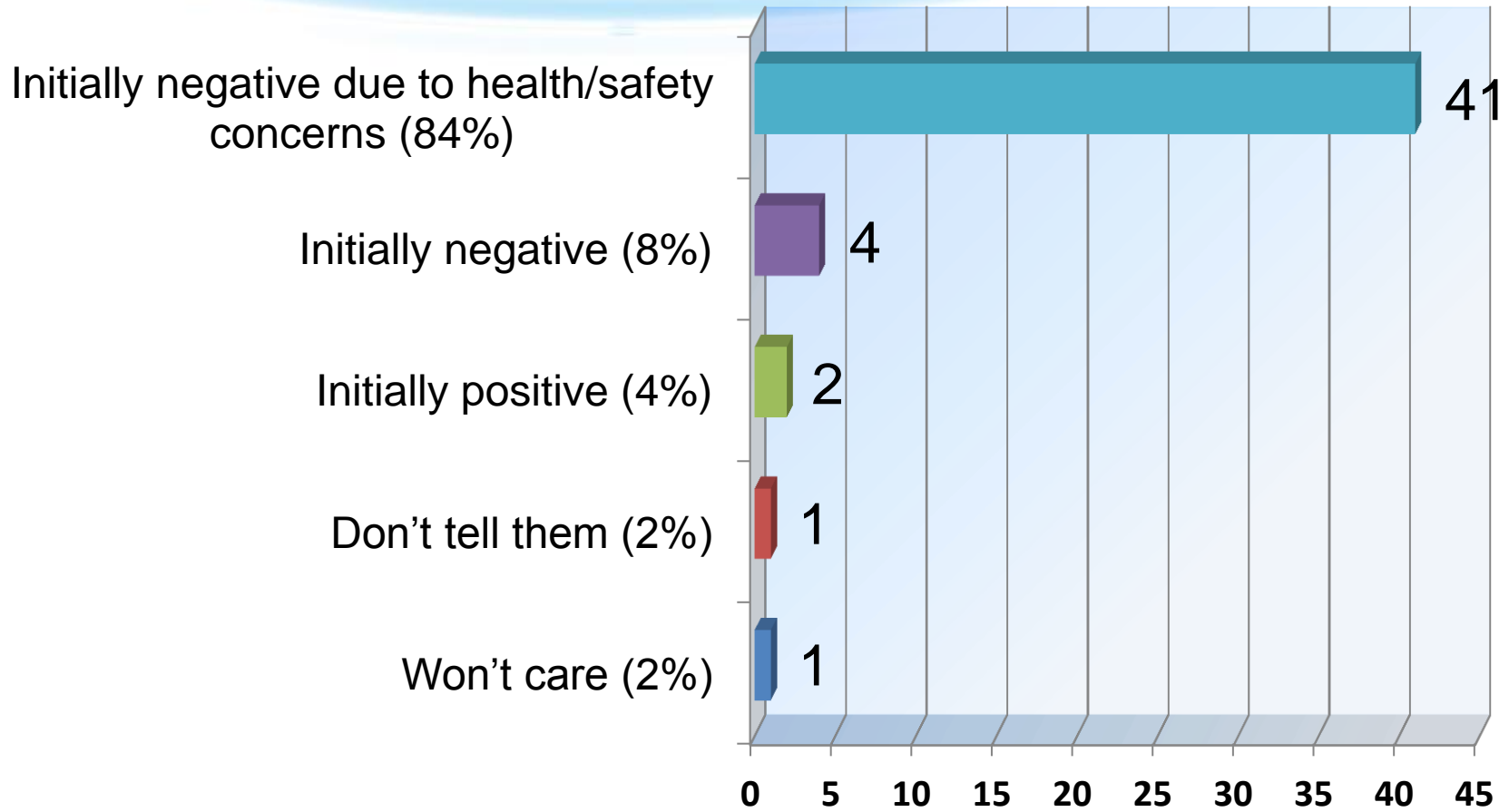


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Community response to expanded reuse?



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Challenge #3: Safety and Regulatory Issues

WHO'S IN CHARGE?

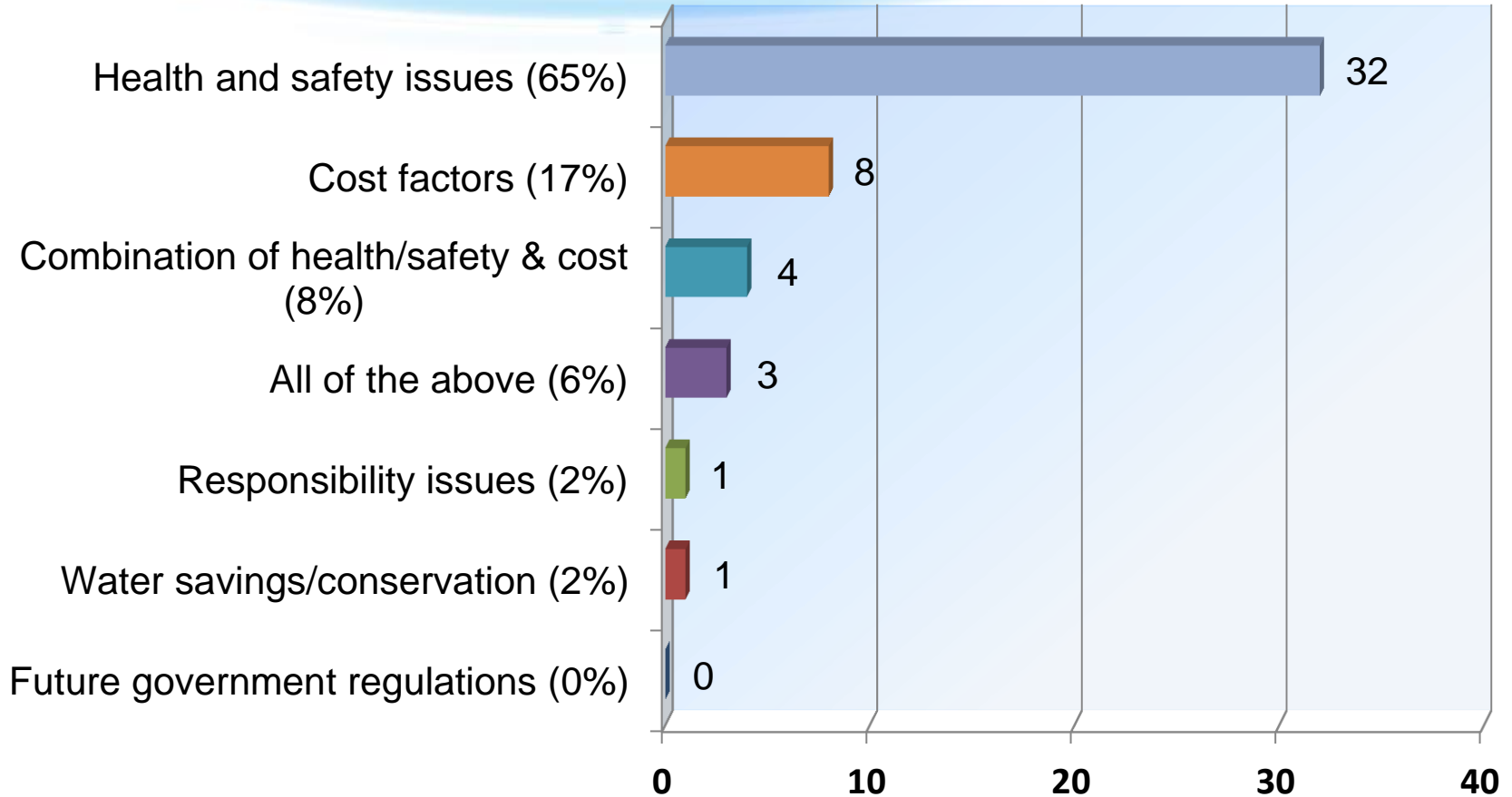
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Biggest graywater challenge?



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Graywater regulatory issues

- Are they package plants?
- Who would regulate?
- Installation prerequisites?
- Impact on water use habits?
- Do we really need to do more?

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THANK YOU

The screenshot shows the H2 Outreach website with the following content:

- Header:** H2OUTREACH logo and the tagline "FROM SOURCE TO SOLUTION".
- Navigation:** HOME | PHILOSOPHY | PUBLIC OUTREACH | FACILITATION | PROJECTS | ABOUT US | CLIENTS | LOGIN
- Hero Section:** "Public outreach and facilitation in the water and wastewater industries." with a background image of people silhouettes.
- Main Content:**
 - Public. Outreach. Process.**

Though these three words are often combined to describe an overall effort, each of these elements is critical to the success of any project that serves a community of diverse people and interests.

Whether you are placing a satellite treatment facility in a residential neighborhood, developing a rate structure to address capital needs or implementing an outreach campaign to change perceptions and behaviors, your publics and the processes you use to interface with them will determine your success.

For more than a decade, the professionals at H2 Outreach have worked with utilities, citizens, private interests and a variety of environmental and public organizations to evaluate and address needs in the water and wastewater industries.

We start at the Source, helping clients identify their needs, who must be involved in the effort and what processes, strategies and tactics are most likely to achieve the desired solution.

The Solution is the natural result of this process. When the right people work together with the appropriate tools and messages, the result is a powerful solution.
 - ACTIVE COMMITTEES**

To learn more about the work of any of these committees, simply click on the name of the committee below. Here you will find general information about the committee and detailed documents related to their work, including agendas, meeting summaries and results of their work.

 - BC Community Performing Arts Center CAC
 - CCWRD Citizens Advisory Committee
 - CWC Financial Task Force
 - CWC Manager Meetings
 - Desert Conservation Program
 - Enterprise Water Resource NAC
 - Henderson Utility Services CAC
 - Moapa Valley Wastewater CAC
 - SCOP Re-Evaluation Process
 - SW Water Reclamation Facility NAC
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