

# Community-Based Water Resiliency



Helping Water Utilities Build Stronger Communities

# What is Community-Based Water Resiliency

# CBWR Provides Resources to Help Increase Preparedness & Resiliency

CBWR can help:

- Brings utilities together with:
  - *Emergency Planners and First Responders*
  - *Business Community and Members of the Public*
  - *City/County Managers*
  - *Public Health Officials*
- Increases preparedness **at the community level** by:
  - *Increase understanding of critical interdependencies*
  - *Highlighting multiple benefits of preparedness*
  - *Improving integration of Water Sector into community emergency preparedness and response efforts*



# Why Involve the Entire Community?

*Water service interruptions can have serious economic, environmental, psychological, and public health consequences. Resilient communities can significantly reduce these risks at negligible cost.*

- All emergencies & responses are local, all threats & vulnerabilities unique
- Utilities play a critical role during water emergencies
- Utilities need to:
  - *Collaborate with interdependent sectors*
  - *Coordinate with law enforcement, community leaders, business leaders, and the general public*
- Communities need to:
  - *Understand interdependencies & how a water emergency will affect them*
  - *Access tools and resources that speak to their roles and responsibilities in advance of a crisis*



# Benefits to a Community

In a day without water, how would you meet the needs of:

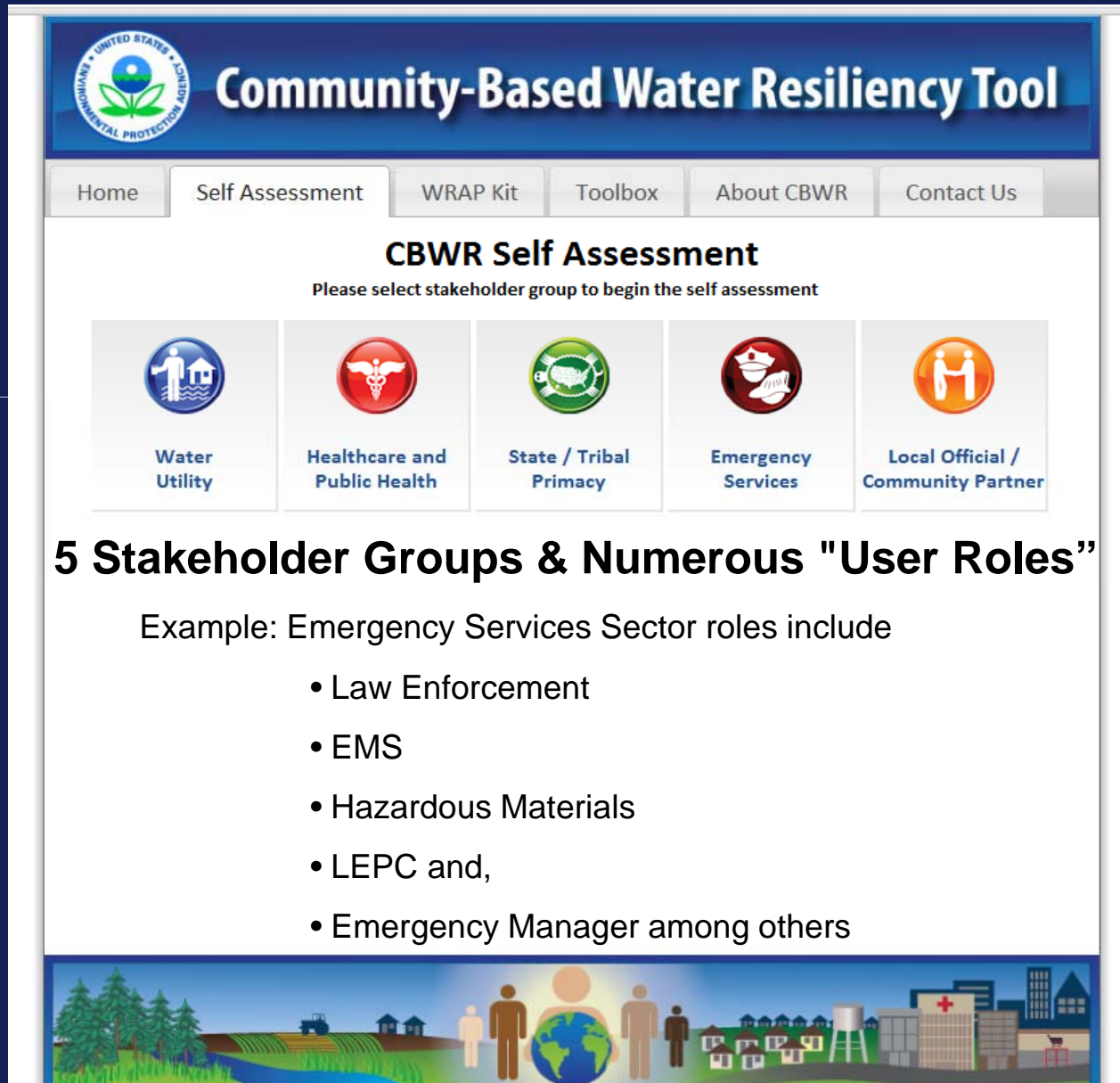
Sanitation, Business Interests, Environmental Protection, and Hospitals/Dialysis Services

CBWR helps communities to:

- Recognize importance of water and organizational reliance on water
- Forge partnerships between water utilities and their community
- Clarify organizational roles and responsibilities during a disaster
- Increase community preparedness for water emergencies
- Reduce impacts of water service interruptions



# Self Assessment




The screenshot shows the 'Community-Based Water Resiliency Tool' interface. At the top is the EPA logo and the title 'Community-Based Water Resiliency Tool'. Below the title is a navigation bar with links: Home, Self Assessment, WRAP Kit, Toolbox, About CBWR, and Contact Us. The main heading is 'CBWR Self Assessment', followed by the instruction 'Please select stakeholder group to begin the self assessment'. There are five buttons representing different stakeholder groups: Water Utility (blue icon of a person at a water tap), Healthcare and Public Health (red icon of a caduceus), State / Tribal Primacy (green icon of a map of the United States), Emergency Services (red icon of a fire truck), and Local Official / Community Partner (orange icon of two people shaking hands). Below the buttons, the text reads '5 Stakeholder Groups & Numerous "User Roles"'. An example is provided: 'Example: Emergency Services Sector roles include'. A bulleted list follows: Law Enforcement, EMS, Hazardous Materials, LEPC and, and Emergency Manager among others. At the bottom of the interface is a decorative banner with icons representing a river, trees, a tractor, houses, a globe, a hospital, and a city skyline.


**Community-Based Water Resiliency Tool**


Home Self Assessment WRAP Kit Toolbox About CBWR Contact Us


**CBWR Self Assessment**


Please select stakeholder group to begin the self assessment

 **Water Utility**

 **Healthcare and Public Health**

 **State / Tribal Primacy**

 **Emergency Services**

 **Local Official / Community Partner**

**5 Stakeholder Groups & Numerous "User Roles"**

Example: Emergency Services Sector roles include

- Law Enforcement
- EMS
- Hazardous Materials
- LEPC and,
- Emergency Manager among others

# Resource Toolbox



**Community-Based Water Resiliency Tool**

Home | Self Assessment | WRAP Kit | **Toolbox** | About CBWR | Contact Us

Water Utility  
Healthcare and Public Health  
State / Tribal Primacy  
Emergency Services  
Local Official / Community Partner  
WRAP Kit  
All CBWR Tools

Search this Toolbox

Emergency Services  
Communication and Outreach  
Emergency Preparedness and Response  
General Water Security  
Local Emergency Planning Committees  
Mutual Aid and Assistance  
Training and Exercises  
Water Sector Interdependencies

The Toolbox contains stakeholder specific resources to help them prepare. Available resources include webinars, presentations, case studies, professional training courses (ICS/NIMS) and many others.



# Water Resiliency Action Planner (WRAP) Kit

- Provides users with step-by-step process for planning a water emergency discussion, and covers:
  - Expectations
  - Roles and responsibilities
  - Capabilities and limitations
  - Planning, hosting and follow-up actions
- Includes sample:
  - Agendas
  - Invitations
  - Suggested participants
  - Logistical templates and scripts for recruitment





# CBWR Pilot: St. Clair County, Michigan



- **Participants:**  
*Water Utility, Neighboring County Emergency Managers, Police and Fire, Public Health Department (Local and Canadian), Schools, Hospital, State Primacy Agency, EPA Regional Water Contact*
- **Outcomes:** Multi-Phase work plan including training, vulnerability assessments and continued tabletop exercises
- **Lessons Learned:**
  - ***Water Utilities:***
    - Determine flow capabilities and exercise interconnections
    - Set priorities for water provision
  - **Emergency Management**
    - Post County Hazard Mitigation Plans & Strengthen public/private sector COOP
    - Conduct water audits
  - **First Responders**
    - Include details of alternate water supplies in emergency response plans
    - Implement long-range planning
- **Full Summary Review Available Online**

# All-Hazards Disaster Resiliency

*Infrastructure failures are not a matter of “if” they are a matter of “when”...we all need to be prepared and plan ahead.*

Water Sector faces numerous threats:

- Infrastructure Failure
- Natural Disasters
  - *Hurricanes, Tornadoes etc.*
- Contamination
  - *Accidental, Intentional or Terrorist*

***CBWR can help you prepare!***



# Using CBWR to Achieve All-Hazard Disaster Preparedness

## CBWR can help you:

- Coordinate with emergency planners
- Strengthen emergency response plans
- Increase citizen understanding of potential impacts from a service interruption
- Support business and community services to factor water service interruptions into emergency plans and,
- Ensure hospitals and critical facilities have alternate water supply



# Florida Workshops

## Federal Disaster Funding for Wastewater Utilities



**Which Funding Is  
Right for You?**

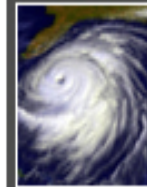


**Be Prepared to Tap  
into Funding**

**Currently In a Disaster?**



**Here are forms to document  
the damage, costs, and repairs.**



**Federal Disaster  
Funding Programs**



**Utility Examples,  
Training, & Assistance**

## Registration Coming Soon!



# Download The Community-Based Water Resiliency Tool Today!

Please visit:

***<http://www.epa.gov/communitywaterresiliency>***

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