**Water Infrastructure Systems Outreach Survey**

***for Catastrophic Incident Response***

The following questions were asked to those who attended the regional Water Infrastructure Systems workshops. Understanding the response to these questions will assist in the development of the Catastrophic Incident Annex and the Catastrophic Incident Planning Framework. Additionally, this information can assist in the development of local, regional, state, Tribal, and federal regional planning. These questions are also being provided to those who were able to attend a workshop if they wish to add additional information. Please feel free to share these questions with any planning partners that you work with.

**IMPORTANT: Do not let the length of this survey deter you from answering these questions. If you are only able to provide limited responses or answer a few questions, this is still better than no information. Water Infrastructure System planning is vital to our communities and even small steps help make measurable progress.**

Definitions:

Critical Consumers

A person or organization that produces a commodity or enables a service vital to a community’s safety, security, and public health.

Specialized Resources

Specialized resources are those that cannot be replaced with other resources. For example:

* Personnel who require specific credentialing or certifications
* Equipment that is designed to perform specific tasks
* Materials that must meet certain specifications

Water Services

Water services can be categorized as those activities that occur to meet the demand for essential services and life sustainment following a disruption to a water system’s infrastructure.

* Enabled through the provision of water by any means
* Adaptable solution to get the water to where it needs to go in short time periods
* “Points of Collection” identified to support water provision objectives
* Requires additional logistical support

1. Does your water infrastructure have known vulnerabilities that will cause it to fail in the event of an earthquake? What levels of impacts would these create (localized, system-wide, regional)?

* Geography
* Utilidors/utility tunnels/pipe bridges
* Older pipe materials
* Dams (as a component of a reservoir)
* Wells
* Source water

Response:

1. Has there been an assessment on the number of people that will be affected from an earthquake incident and require water services?

Response:

1. Have there been any assessments, exercises, or incidents that have produced information on the ability to provide water services and restore the water system?

Response:

1. Has there been identification of specialized resource capabilities and gaps following a catastrophic incident (personnel, equipment, supplies)?

* Are there currently any specialized resources (gaps) needed for system restoration that would be in short supply or are not readily available?
* Are there currently any specialized resources (gaps) needed for water services that would be in short supply or are not readily available?

Response:

1. What are the restoration estimates or goals for your jurisdiction’s water providers (days, weeks, months)?

Response:

1. Following an incident that severely affects water infrastructure, there may be communities that will not have water flow restored for an extended period. This extended period, when combined with limited resources to support populations covering large geographic areas, may result in an inability to provide water services to all affected. Are there any areas where restoration estimates exceed life-sustainment goals?

* Are there plans to provide emergency drinking water via other means to these communities?

Response:

1. WAWARN is a Water/Wastewater Agency Response Network that allows water and wastewater systems to receive rapid mutual aid and assistance from other systems in an emergency. Utilities sign the WARN standard agreement which then allows them to share resources with any other system in Washington that has also signed the agreement. Are there plans to incorporate Washington Water/Wastewater Agency Response Network (WAWARN) into response operations?

Information on WAWARN: <https://wawarn.org/>

WAWARN Members: <https://wawarn.org/members.php>

Response:

1. During a catastrophic incident, the ability for emergency management to coordinate with all stakeholders will be extremely limited. Coordinating with existing structures can reduce this strain. Are there currently any regional groups, sub-regional groups, or any other form of collaboration between neighboring water providers? Do these groups regularly collaborate with local emergency management?

Response:

1. Are there portions of the transportation infrastructure that are likely to be impacted which will limit or prevent the movement of resources essential to this planning? (For example: Roadways and bridges that lead to a water provider’s infrastructure or from the infrastructure to a mass care site)

Response:

1. Which hospitals in your areas would be most impacted by a disruption to the water system?

* How long can they operate with disrupted systems?
* Can local resources be used to meet the identified water needs?
* How resilient is the existing water structure that supplies these hospitals?

Response:

1. Are there local resources that can be utilized to meet short term response objectives? When assessed alongside the potential need for these resources, will they be sufficient and for how long? (rough estimates are ok)

* Bottling facilities
* Privately-owned water storage
* Private sector vendors
* Water sources
* Tanker trucks
* Purification equipment

Response:

1. Are there any other potential concerns or roadblocks to developing and implementing a plan to provide water services for lifesaving and sustaining response activities

Response: