



# Galveston County WCID #1 Local Hazard Mitigation Plan Development

Meeting #2  
August 6, 2024

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## Today's Agenda

- Welcome and Introductions
- Kickoff Meeting Recap
- Hazard Identification
- Risk Assessment
- Next Steps
  - SC- Goals
  - CPT- Capability Assessment
- Q&A

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# Meeting Goals & Objectives

- Recap Kickoff Meeting
- Identify Hazards
- Conduct Risk Assessment
- Answer Questions
- Discuss Next Steps




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# Welcome and Introductions

Ivan Langford  
Amanda Ashcroft



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## Who we are

The Galveston County Water Control and Improvement District #1 (WCID #1) provides drinking water, wastewater and contracted solid waste collection services to 8,500 households and businesses in the greater Dickinson area.

Galveston County WCID #1  
Dickinson's Water District

Galveston County WCID #1  
Dickinson's Water District

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## Our vision

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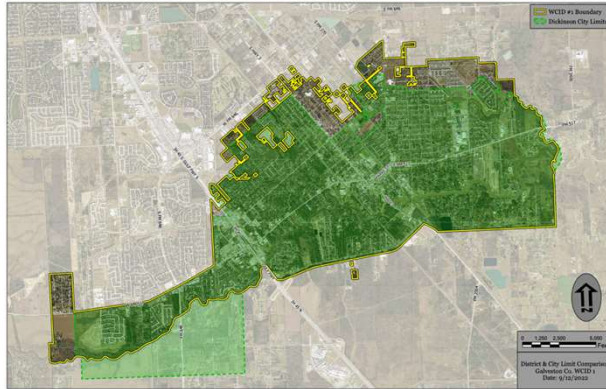
Provide excellent customer service by investing in infrastructure improvements, proactive communication, staff development and cost efficiencies

Galveston County WCID #1  
Dickinson's Water District

Galveston County WCID #1  
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# Our service area



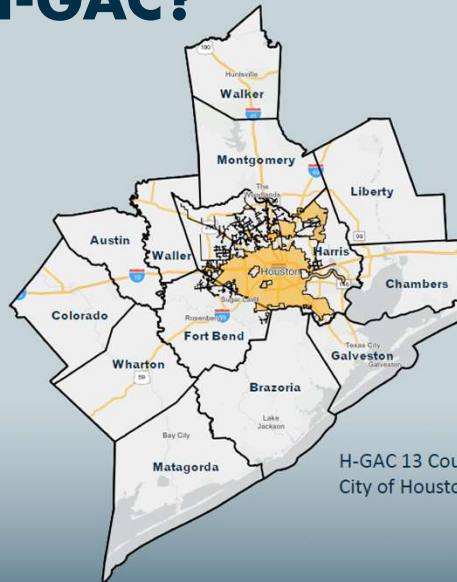
- **DISTRIBUTE** 2.1 million gallons of drinking water a day
- **TREAT** 1.8 million gallons of sewage a day
- **CONTRACT** to pick up solid waste for 8,500 households and businesses

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# What is H-GAC?



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# Kickoff Meeting Recap

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## What is Hazard Mitigation Planning?

- Any action taken to reduce or eliminate the long-term risk to life, personal injury, and property damage that can result from a disaster
- The Hazard Mitigation Plan will assess the potential risk that natural hazards pose to buildings, infrastructure and equipment owned by WCID#1.

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# Disaster Mitigation Act of 2000 (DMA 2000)

“to reduce the loss of life and property, human suffering, economic disruption, and disaster assistance costs resulting from natural disasters.”

- Section 322 specifically addresses mitigation planning and requires FEMA approved hazard mitigation plans as a precondition for receiving FEMA mitigation funds.



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# Project Organization



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# Hazard Mitigation Plan Components

- WCID #1 Profile
- Planning Process
- **Risk Assessment**
- Capability Assessment
- **Hazard Identification (Hazard Profiles)**
- Mitigation Goals and Strategies
- Plan Implementation, Monitoring, and Maintenance
- Appendices



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# Planning Process



- 1**  
**Organize Resources**  
  - Establish the Steering Committee
  - Engage the public
- 2**  
**Risk and Capability Assessment**  
  - Identify hazards
  - Outline capabilities
  - Assess risks


- 3**  
**Mitigation Strategy**  
  - Set planning goals & objectives
  - Develop mitigation actions
  - Draft the action plan
- 4**  
**Adoption and Implementation**  
  - Adopt the plan
  - Implement the plan
  - Evaluate and revise the plan



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# 2

## Risk and Capability Assessment

- Identify hazards
- Outline capabilities
- Assess risks

- **Identify Hazards**
  - Location
  - Extent
  - Historic Occurrences
  - Future Probability
  - Climate Change
- **Update Assets/ Outline Capabilities**
  - Critical Facilities
  - Community Lifelines
  - Critical Infrastructure
  - Population
  - Building Stock

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## Critical Facilities & Community Lifelines

- **Critical Facilities-** provide essential services to the community, especially before, during, and after a disaster.
- **Community Lifelines-** provide services that allow continuity of operations of critical business and government functions and are crucial to the health and safety of residents.

Water Systems

Health and Medical

Transportation

Safety and Security

Hazardous Materials

Food, Hydration, Shelter

Energy (Power & Fuel)

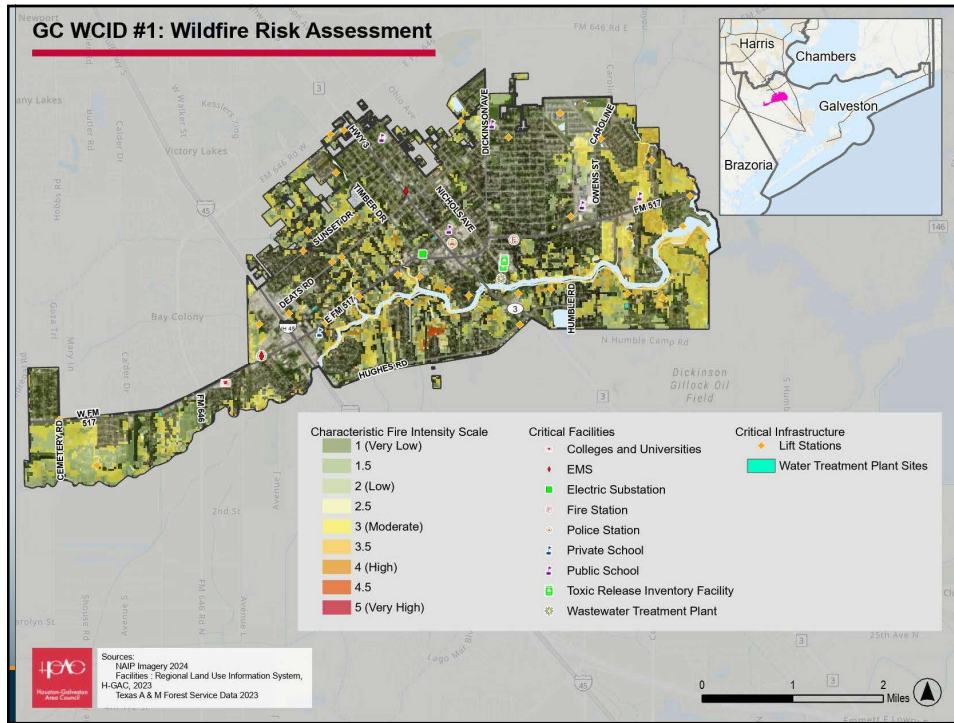
Communications

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# Mitigation Strategy

**3**

Set planning goals and objectives  
 Develop mitigation actions  
 Draft the action plan

- Goals/ Objectives
  - What outcomes do you want to achieve?
- Actions
  - What specific actions will be taken to reduce the risk of hazards?
- Action Plan
  - How will the actions be prioritized and implemented?

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- **Goal:**
  - Increase Public Preparedness and Engagement
- **Objective:**
  - Reduce flammable vegetation within areas of moderate or greater wildfire risk.
- **Action:**
  - Increase homeowner awareness about wildfire risk and safety measures, such as hazardous fuels reduction and creating defensible space through social media campaigns, public events, and informational flyers distributed in water bills.

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# Adoption and Implementation

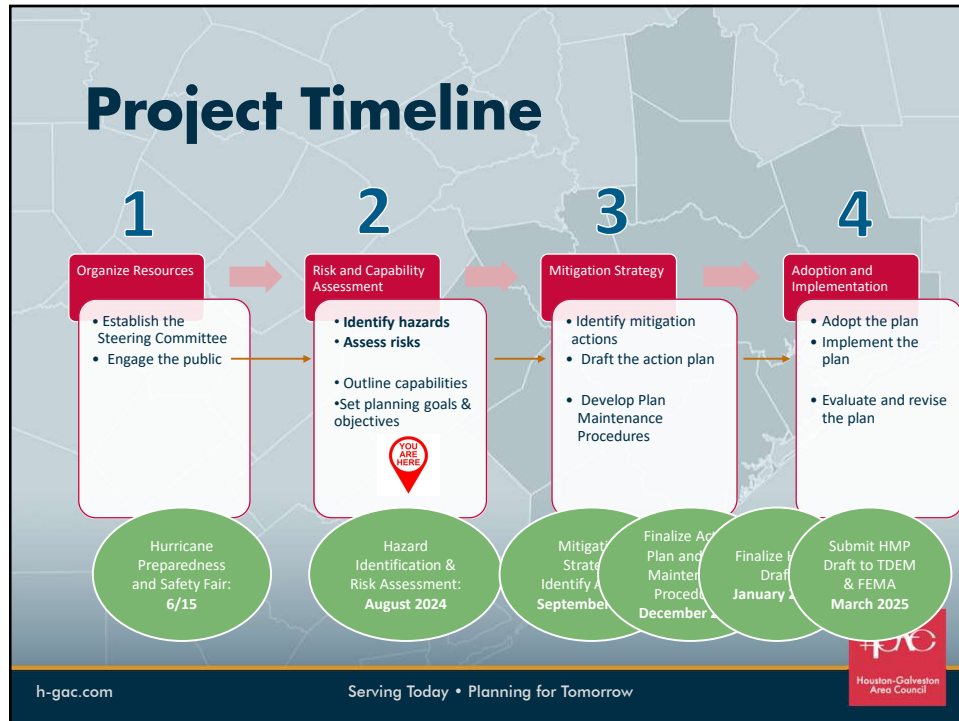
- **Plan Adoption**
- **Integration**
  - What specific actions will be taken to reduce the risk of hazards?
- **The Action Plan**
  - Explore funding options to complete projects
    - Develop grant applications
      - Implement the projects

Adopt the plan  
 Implement the plan  
 Evaluate and revise the plan

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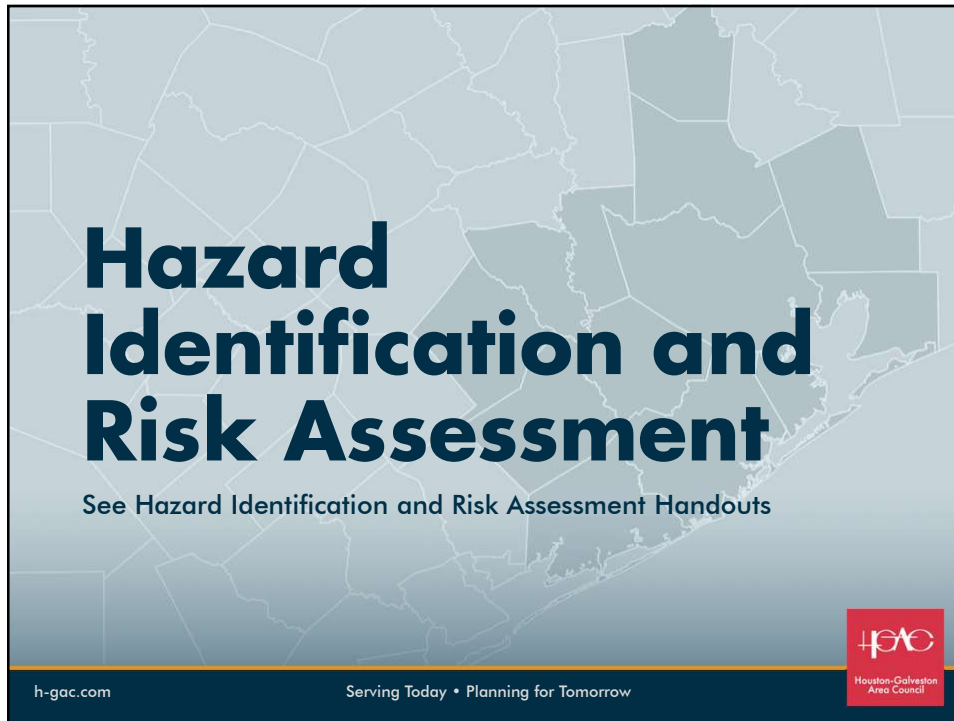
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## Outreach Methods

- What methods of public involvement have worked well in the past?
  - Community events
  - Questionnaires/surveys
  - Roundtable/forums
  - Social media
  - Web sites


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# Hazard Identification and Risk Assessment


See Hazard Identification and Risk Assessment Handouts

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## Hazard Identification

<b>City of Galveston</b>	<b>Port of Galveston</b>	<b>Chambers County</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Biologic Event</li> <li><input type="checkbox"/> Coastal Erosion</li> <li><input type="checkbox"/> Environmental Disaster</li> <li><input type="checkbox"/> Extreme Cold</li> <li><input type="checkbox"/> Extreme Heat</li> <li><input type="checkbox"/> Drought &amp; Expansive Soils</li> <li><input type="checkbox"/> Fire (Wild &amp; Urban)</li> <li><input type="checkbox"/> Flooding</li> <li><input type="checkbox"/> Hail</li> <li><input type="checkbox"/> Lightning</li> <li><input type="checkbox"/> Sea Level Change</li> <li><input type="checkbox"/> Tornado &amp; Waterspout</li> <li><input type="checkbox"/> Tsunami</li> <li><input type="checkbox"/> Tropical Systems and Hurricanes</li> <li><input type="checkbox"/> Windstorm</li> <li><input type="checkbox"/> Winter Storm</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Coastal erosion/ land subsidence</li> <li><input type="checkbox"/> Cold Wave</li> <li><input type="checkbox"/> Drought</li> <li><input type="checkbox"/> Flooding</li> <li><input type="checkbox"/> Fog</li> <li><input type="checkbox"/> Heat Wave</li> <li><input type="checkbox"/> Hurricanes and tropical storms</li> <li><input type="checkbox"/> Lightning</li> <li><input type="checkbox"/> Pandemic</li> <li><input type="checkbox"/> Thunderstorms</li> <li><input type="checkbox"/> Tornadoes</li> <li><input type="checkbox"/> Winter storms</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Climate Change</li> <li><input type="checkbox"/> Drought</li> <li><input type="checkbox"/> Extreme Temperatures (heat and cold)</li> <li><input type="checkbox"/> Flooding (Street/Land)</li> <li><input type="checkbox"/> Flooding</li> <li><input type="checkbox"/> Geologic                             <ul style="list-style-type: none"> <li><input type="checkbox"/> (Landslide, sinkholes, subsidence)</li> </ul> </li> <li><input type="checkbox"/> Hurricane/Tropical Storm</li> <li><input type="checkbox"/> Tornado</li> <li><input type="checkbox"/> Severe Weather                             <ul style="list-style-type: none"> <li><input type="checkbox"/> (high winds, lightning, hail)</li> </ul> </li> <li><input type="checkbox"/> Severe Winter Storms                             <ul style="list-style-type: none"> <li><input type="checkbox"/> (blizzard, heavy snow, ice)</li> </ul> </li> <li><input type="checkbox"/> Wildfire</li> </ul>

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## Our vision

Provide excellent customer service by investing in infrastructure improvements, proactive communication, staff development and cost efficiencies

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## HMP Mission Statement


- The mission of the WCID #1 Hazard Mitigation Plan is to...
  - reduce risk for WCID #1 assets that are vital for continuity of operations following hazard events.
  - reduce risk and increase the resiliency of the WCID #1 water system during natural disasters by developing a hazard mitigation plan that focuses on protecting life, property, infrastructure, and the environment.
  - protect and eliminate and/or reduce damages and disruptions to WCID #1 assets during disasters to maintain continuity of essential services.

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# Hazard Identification and Risk Assessment

See Hazard Identification and Risk Assessment Handouts

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## Next Steps

- **Steering Committee**
  - Brainstorm goals
    - Align with the HMP Mission Statement
    - Can be broad or specific
- **Core Planning Team**
  - Capability Assessment
  - Brainstorm goals

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**Questions?**

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## Contact Information

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