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### Agenda









- Hazard Mitigation Planning
  - Plan requirements and process
  - · Overview and benefits
- Orange County Regional Water and Wastewater Multi-Jurisdictional Mitigation Plan (HMP)
  - Benefits of Regional Planning
  - Framework
  - Hazard/risk identification
  - Mitigation strategy
- Annex C Orange County Sanitation District



### **Participating Agencies**









**Orange County** 

City of La Habra

Serrano Water District

Orange County Water

District

Laguna Beach County Water

South Coast Water

District

District

**Orange County Sanitation District** 

South Orange County

Moulton Niguel Water District

Trabuco Canyon Water District

City of Westminster

Wastewater Authority City of Buena Park

City of Newport Beach

Mesa Water District

Yorba Linda Water

District

El Toro Water District City of Orange

City of Garden Grove

Santa Margarita Water

District



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### **History**









- > The Disaster Mitigation Act of 2000 requires all cities, counties and special districts to develop and adopt a Hazard Mitigation Plan (HMP) to be eligible to receive federal grants pertaining to disaster mitigation.
- In 2005 the Water Emergency Response Organization (WEROC) sought funding with member agencies.
- ➤ In 2007 the Municipal Water District of Orange County (MWDOC) member agencies prepared the HMP.
- ▶ In 2012 OCSD Board of Directors approved the updated HMP.
- > This 2019 Plan builds on the original 2007 Plan and the previous 2012 update.





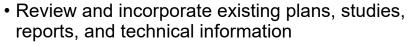
#### **Plan Requirements** and Process





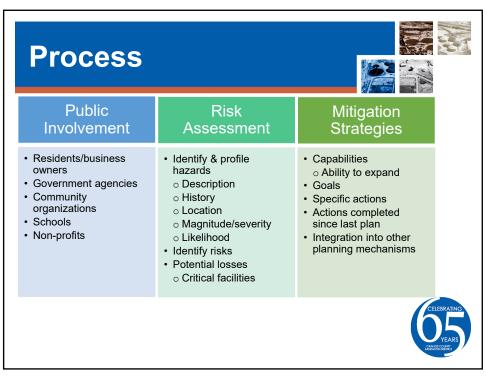






- Document how the plan was prepared and who was involved
- Identify how the plan will be monitored, evaluated, and updated regularly
  - Provide for continued public participation in plan maintenance
  - Five-year cycle for FULL updates

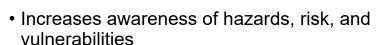




#### **Benefits of an Updated** and Approved HMP







- Identifies actions for risk reduction
- Aligns risk reduction with other objectives
- Builds partnerships for risk reduction
- Focuses resources on the greatest risks





## **Benefits of an Updated and Approved HMP – Cont.**







- Enables action to reduce loss of life and property, lessening impact of disasters
- FEMA-approved HMP is a condition for receiving certain types of non-emergency disaster funding





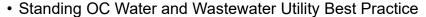
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# Benefits of Regional Planning









- Historically
  - Worked together to improve regional and local reliability and resiliency
  - Utilize joint or collaborative capital improvement projects, planning processes and emergency management practices
- This Plan
  - Focused only on the agencies that provide drinking water and wastewater services
  - Greater analysis of the risk as it applies specifically to these services
  - · Project planning driven by the principles of economies of scale
  - · Enhance limitations on risk by working together
  - · Enhances mutual aid planning objectives



### **HMP Framework**









- Introduction and Purpose
- · Planning Process Documentation
- · Risk Assessment and Hazard Identification
- Mitigation Strategy
- Plan Maintenance
- Jurisdictional Annexes (Annex C is the OCSD Plan)



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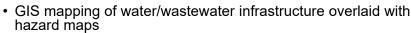
### **Regional Risks**





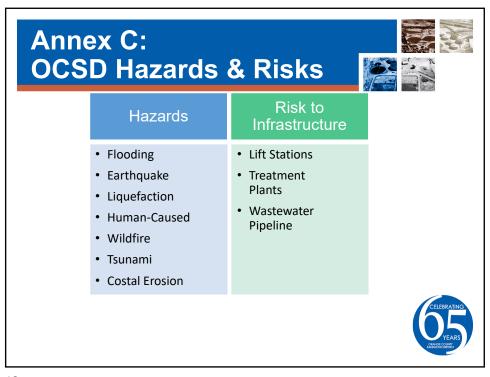






- Wildfires
- Flood
- · Fault rupture
- Earthquakes
- · Liquefaction/landslides
- Tsunamis
- Manmade (terrorism, accidental)
- Replacement cost and value to the community
  - Worst-case scenario assuming complete cost of replacement
  - · Relative measure of the impacts of the various hazards





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# **Development of OCSD Mitigation Strategy**







- · Reviewed risk and capabilities specific to service area
- · Mitigation strategies reflect vulnerabilities of critical facilities
- · Reviewed existing mitigation actions to determine:
  - · Relevant mitigation actions that should remain or be revised
  - Mitigation actions that are no longer feasible/viable
  - · Mitigation actions that have been completed
  - · New mitigation actions



# OCSD Mitigation Actions









- · Build redundancy into the treatment process
- Follow the asset management plan for replacement and refurbishment of facilities
- Identify locations & install sensors / alarms for harmful contaminants entering the treatment system
- · Improve security at higher priority sites
- Upgrade supervisory control and data acquisition (SCADA) system to existing sites as needed
- · Harden and improve physical security
- · Examine opportunities for online water quality sensing
- · Perform a seismic study analysis for critical infrastructure



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#### **Next Steps**



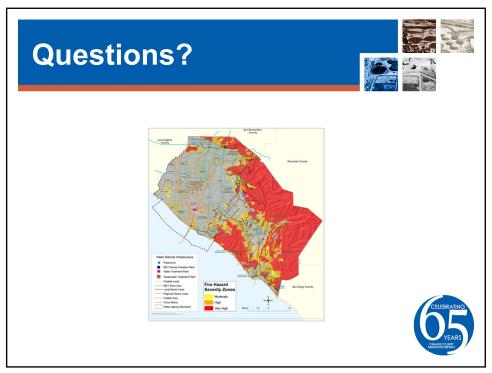






- · Immediate Action:
  - Staff recommends approval and adoption the 2019 Orange County Regional Water and Wastewater Hazard Mitigation Plan (Annex C)
  - MWDOC will provide Annex C and signed Resolution to FEMA for future grant applications
- · Over the Next 5 Years:
  - Staff will integrate the HMP concepts into local hazard mitigation plan (LHMP)
  - · Work on and implement mitigation actions
  - · Apply for mitigation grant funds for projects
  - Monitor implementation of the plan
  - Continue community and partner agency involvement
  - Continue to review and update the plan as applicable





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