

# Crescenta Valley Water District Local Hazard Mitigation Plan



Crescenta Valley Town Council Meeting  
April 15, 2021



## Local Mitigation Planning Handbook

March 2013





# Local Hazard Mitigation Plan

## Agenda

- Background
- Elements of LHMP
- Steering Committee
- Goals & Objectives
- Type of Natural & Man-Made Events
- Disaster Survey Results
- Preliminary Results
- Projects
- Next Steps

## CVWD Mission Statement

To provide quality water and wastewater services to the Crescenta Valley community in a dependable and economically responsible manner.

## CVWD Vision

Secure sustainable water supplies and ensure infrastructure reliability, while furthering our commitment to accountability, transparency, and cost-effectiveness.



# Local Hazard Mitigation Plan

## Background

- CVWD working with California Governor's Office of Emergency Services (Cal OES) & the Federal Emergency Management Agency (FEMA) on grant funding for emergency preparedness.
- Grants available through 404 Hazard Mitigation Grant Program for projects that will improve resiliency of the District following a disaster.
- To be eligible, District needs to prepare a "Local Hazard Mitigation Plan" (LHMP).



# Local Hazard Mitigation Plan

## Background

- The LHMP outlines potential high priority hazards areas or vulnerable infrastructure that could be at risk during a natural or man-made event:
  - ✓ Drought
  - ✓ Power shortage/outage
  - ✓ Earthquake
  - ✓ Cyber-attack
  - ✓ Water Shortage
  - ✓ Wildfire
  - ✓ Terrorism
- CVWD applied for the grant in March 2019, and it was approved in April 2020.
- The total approved LHMP grant - \$166,653.
  - FEMA reimbursement - \$124,990 or 75%.
  - CVWD responsible for \$41,663 or 25%.
- CVWD retained Tetra Tech to prepare the LHMP



# Local Hazard Mitigation Plan

## LHMP Elements

- **Steering Committee:** – Create a Steering Committee made up of local stakeholders.
  - Oversee the plan's development and outreach.
  - Create LHMP Goals & Objectives
  - Meets on a monthly basis and meetings are open to the public.
- **Development of Mitigation Strategy:** – Develop a strategy to address the District's exposure to hazards.
  - Develop Mission Statement, Vision, and Goals & Objectives
- **Detailed Risk Assessment Plan:** – Develop a plan to understand the risk and vulnerability of natural hazards and provide for the development of a hazard mitigation strategy.
  1. Prioritization of hazards that have occurred within the District service area.
  2. Prepare maps that delineate areas affected by hazards which shows local assets.
  3. Develop an overview of the District's vulnerability to specific hazards.
  4. Review and assess CVWD's inventory existing plans, policies, and procedures that the District has in place to reduce the effect of hazards.
- **LHMP Maintenance Process and Plan Adoption:** - Develop a strategy to monitor, evaluate, implement, and update the LHMP



# Local Hazard Mitigation Plan

## Steering Committee

- 11-member committee made up of local agencies and Community members as shown below.
- Meeting agenda and summary notes posted at [www.cvwd.com](http://www.cvwd.com)

1	Sharon Raghavachary	Committee Chairperson; President, CVWD Board of Directors
2	Harry Leon	Committee Vice-Chairperson; President, CV Town Council
3	James Bodnar	Vice-President, CVWD Board of Directors
4	Paul Dutton	CERT Program, Dutton Real Estate
5	Ken Herman	District Engineer, Foothill Municipal Water District
6	Doug Caister	General Manager, La Cañada Irrigation District
7	Shahan Atmajian	EOC Coordinator, City of La Canada Flintridge – Public Safety
8	Brian Hodge	President, Crescenta Valley Fire Safe Council
9	Michael De Ghetto	Assistant General Manager, Glendale Water and Power
10	Dan Hardgrove	Deputy Director of Public Works/Field Services, Glendale, Public Works
11	David Weeshoff	San Fernando Valley Audubon Society Conservation Chair





# Local Hazard Mitigation Plan

## LHMP - Goals

1. Protect life and property.
2. Maintain continuity of essential water and sewer services.
3. Increase public awareness of the risk of loss of water/sewer service.
4. Facilitate partnerships with stakeholders within the Crescenta Valley and implement a coordination plan.
5. Protect local water supply sources.
6. Protect against environmental consequences caused by water and sewer system failure initiated by natural hazards.



# Local Hazard Mitigation Plan

## LHMP - Objectives

1. Implement activities that assist in protecting lives by making CVWD's infrastructure, critical facilities, and other properties more resistant to natural hazards.
2. Protect water quality and supply.
3. Properly address aging infrastructure issues to reduce/minimize future hazards and disasters.
4. Raise awareness and communicate to the Crescenta Valley Community about the risks to District assets.
5. Leverage grant funding and low interest loan programs to implement hazard mitigation capital projects.
6. Establish policies to ensure mitigation projects are prioritized for critical facilities, services, and infrastructure.
7. Create, rehabilitate, enhance, and preserve local ecosystems to serve as natural hazard mitigation functions.





# Local Hazard Mitigation Plan

## Hazard Examples

### *Natural Hazards*

- Earthquake
- Wildfire
- Flooding
- Climate change
- Drought



### *Human Caused*

- Terrorism





# Local Hazard Mitigation Plan

## Public Outreach – Survey

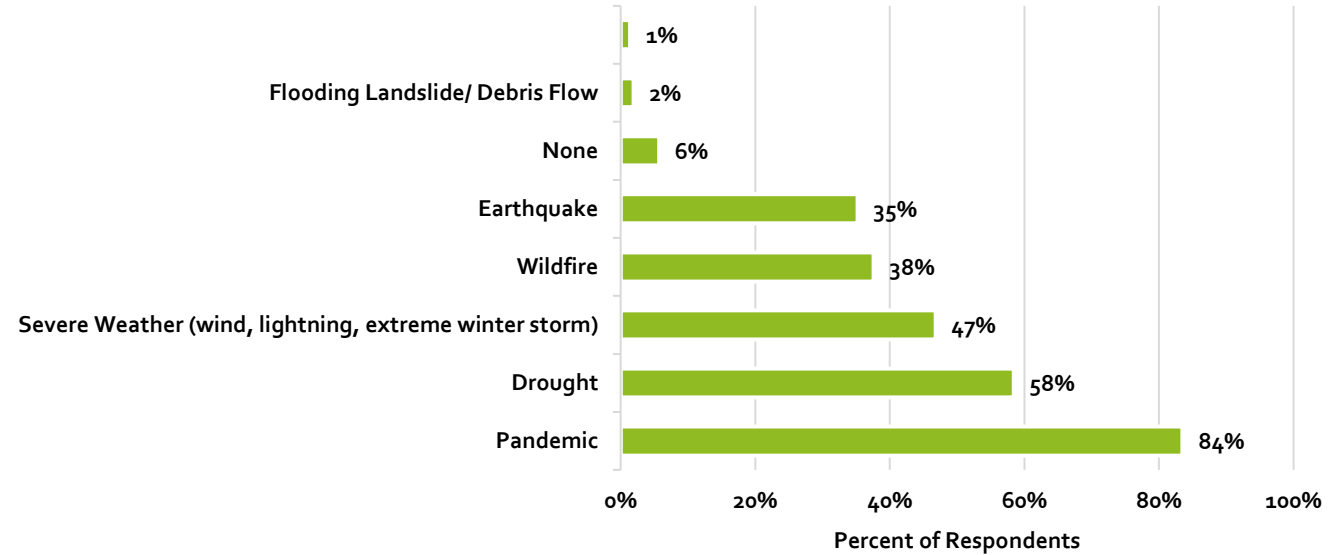
- CVWD sent out 7,000 emails asking our customers to participate in a brief survey.
- **Example of Survey Questions:**
  - What issues are most important with regards to the District's ability to react to a natural or man-made disaster.
  - Where customers get their information about emergencies?
  - How informed customers are on CVWD's mitigation and preparedness efforts?
- **All feedback was reviewed by the Steering Committee and posted on CVWD's website**



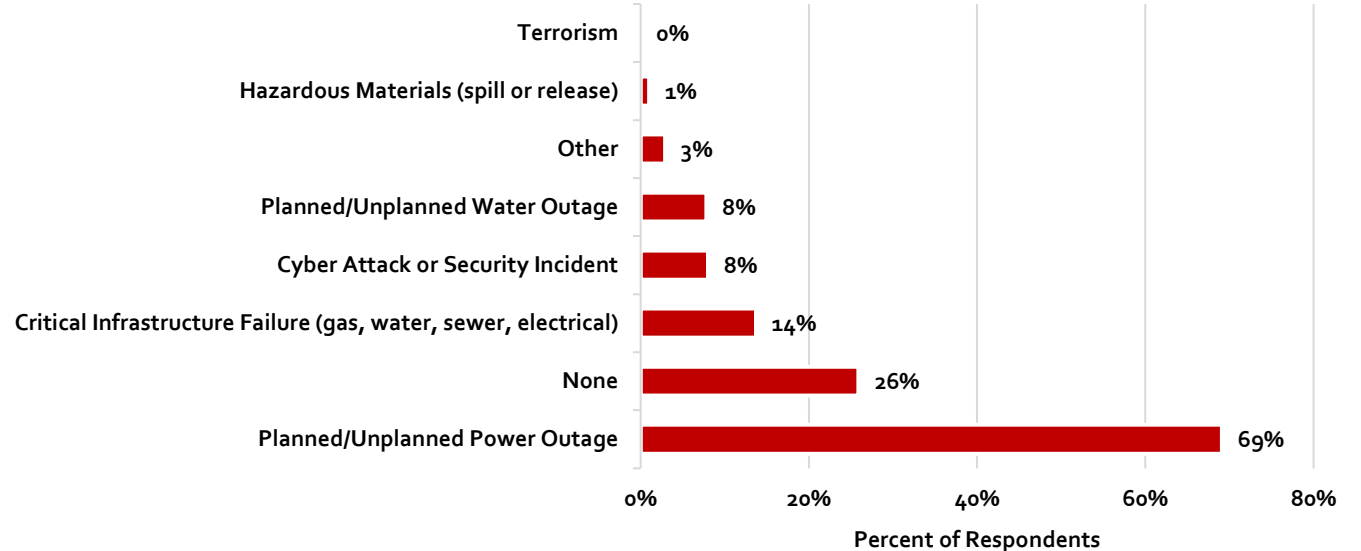
# Local Hazard Mitigation Plan

**What natural hazard have you experienced or been affected by in the last 3 years?**

## Sample of Survey Results



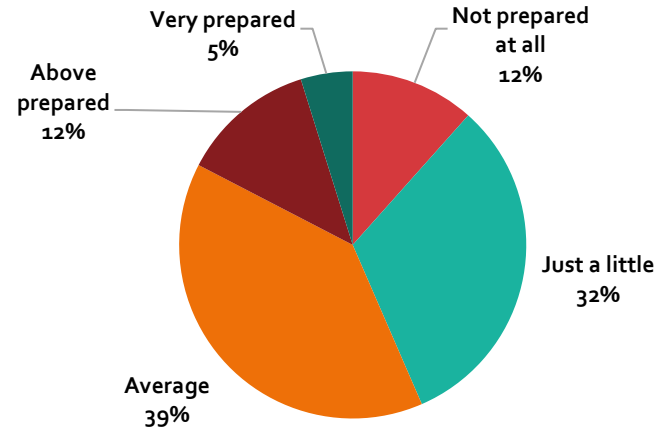
**What man-made hazard have you experienced or been affected by in the last 3 years?**





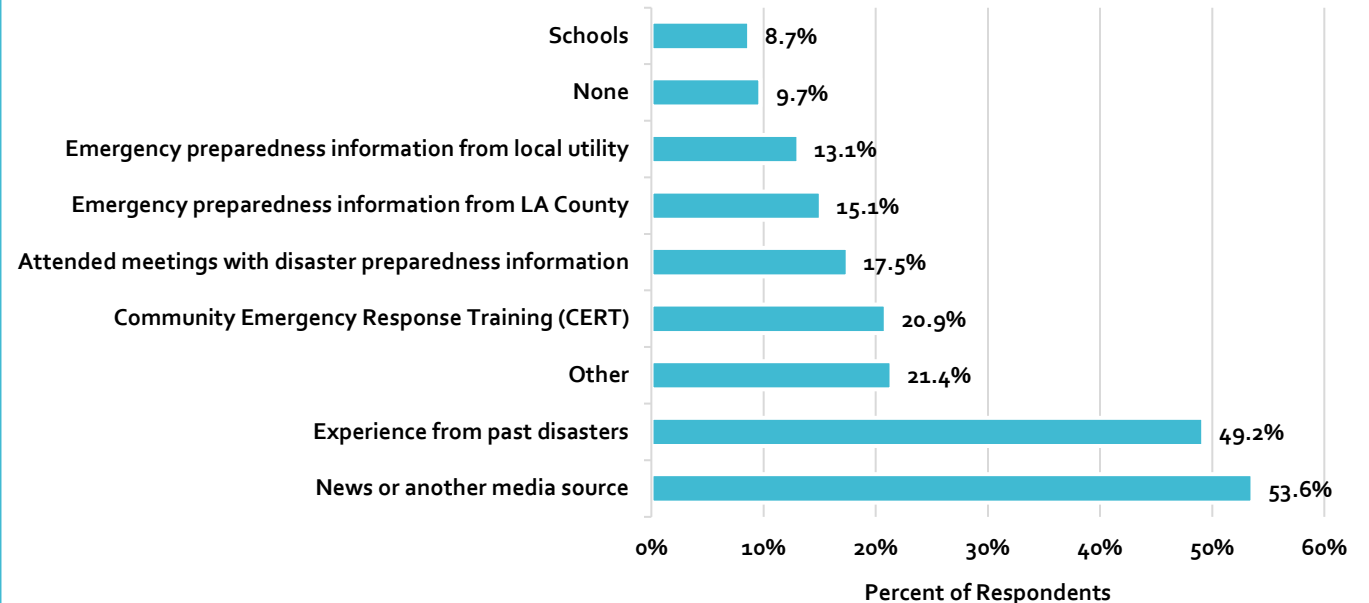
# Local Hazard Mitigation Plan

## Sample of Survey Results



How prepared are you to deal with a disaster or big emergency, particularly water disruption?

What resources have helped you become more prepared for local emergencies and disasters?

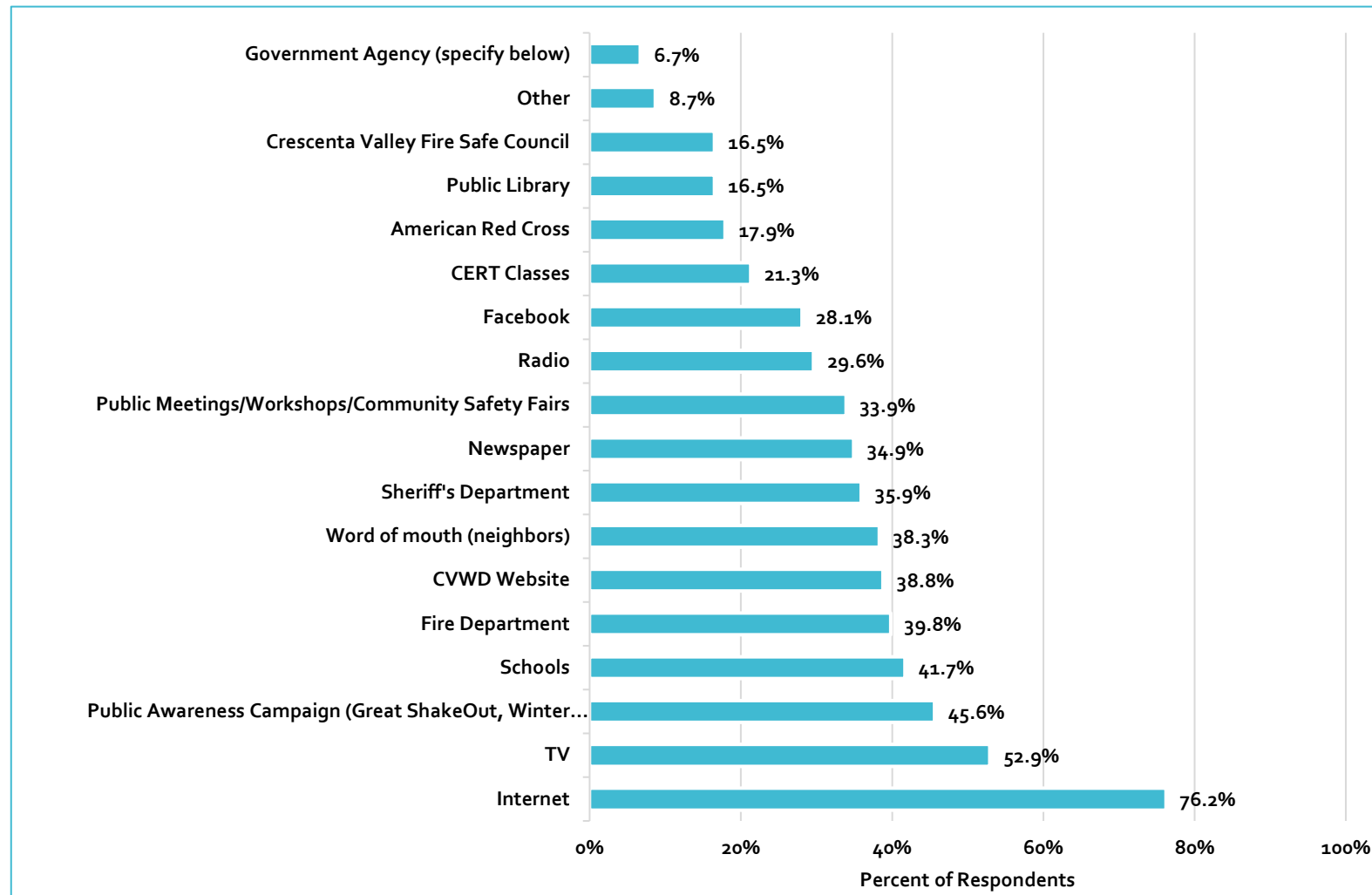




# Local Hazard Mitigation Plan

## Sample of Survey Results

What are the most effective ways of providing public education on emergency preparedness?

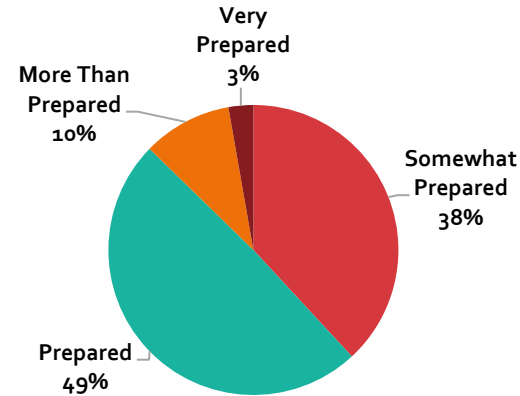




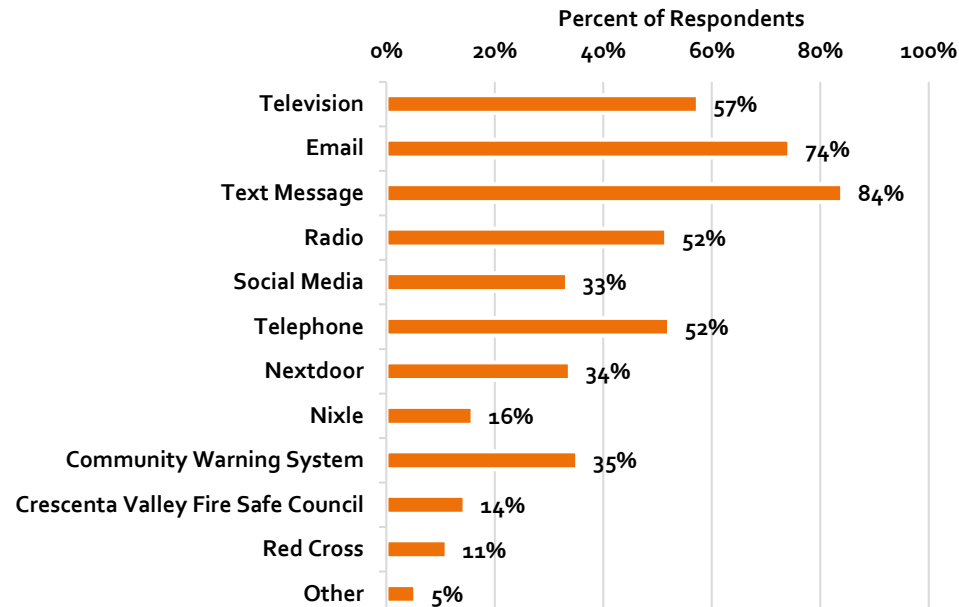
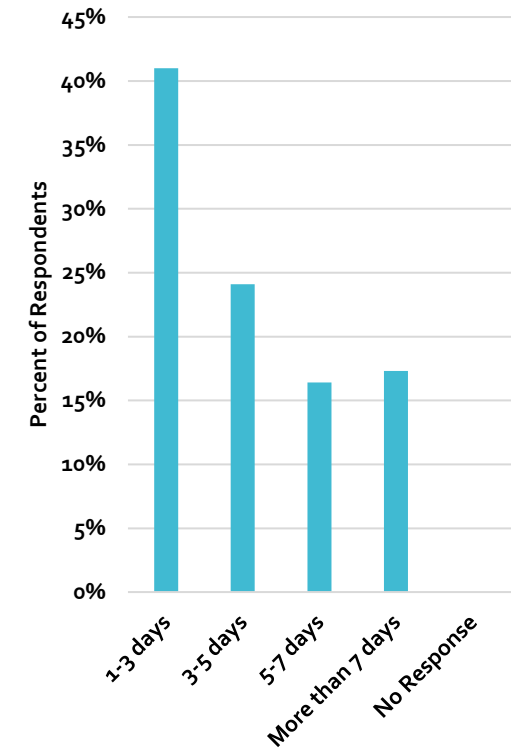
# Local Hazard Mitigation Plan

## Sample of Survey Results

How prepared do you think CVWD is to provide you with water service following a disaster?



If water service was temporarily disrupted, how long could you continue without any drinking water?



How would you expect to be notified in case of an immediate threat caused by a local hazard?

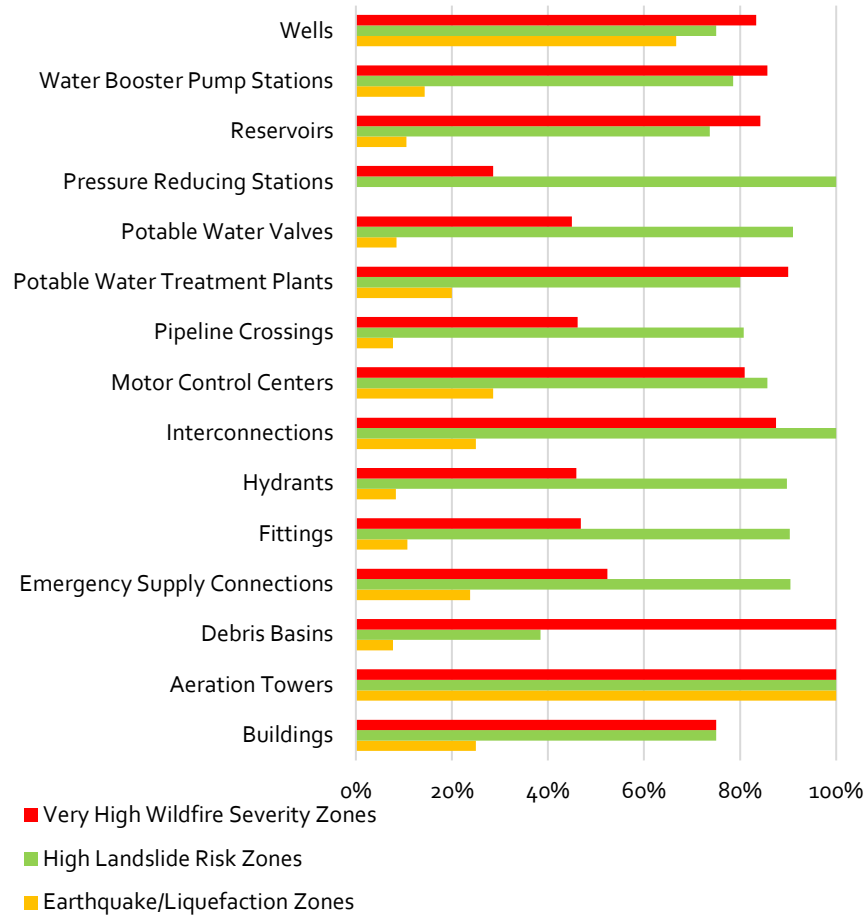




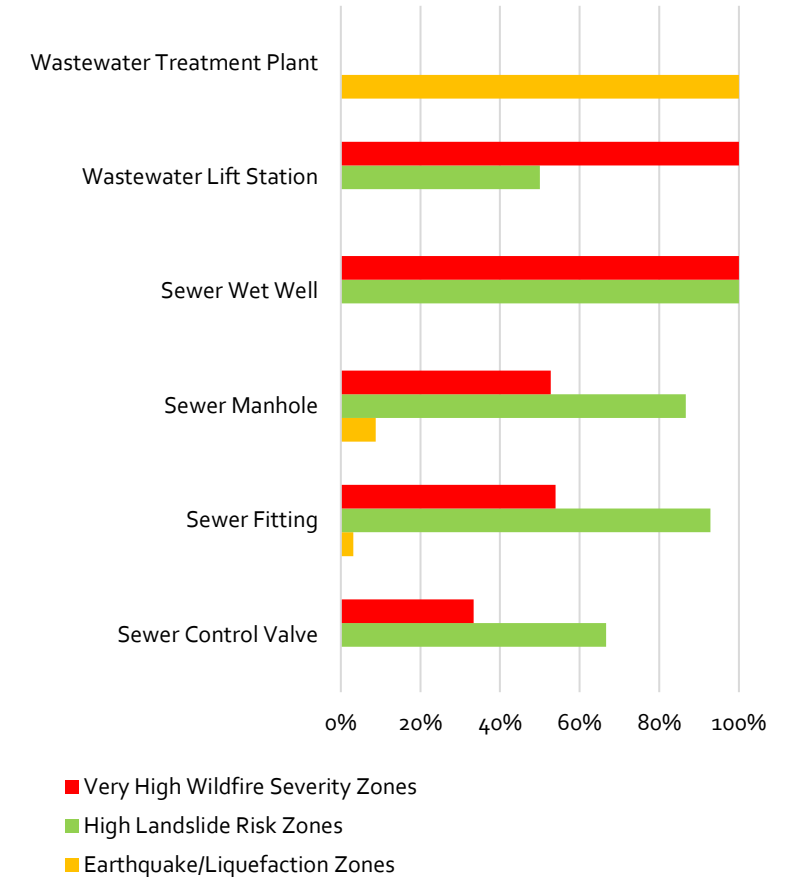
# Local Hazard Mitigation Plan

## Preliminary Risk Assessment Results

Percent of District Water Facilities in Hazard Zones



Percent of District Wastewater Facilities in Hazard Zones





# Local Hazard Mitigation Plan

## Pre-Mitigation Projects

- New Portable Emergency Electrical Generators – four (4) new portable generators to be staged at Booster Pump Station sites to move water to higher elevations.
  - Estimated Cost - \$475,000
    - 75% Cal OES/FEMA = \$356,250
    - 25% CVWD = \$118,750
- New Seismic Sensors & Valve Actuators on Reservoir Inlet/Outlet Valves (4 sites) to close valve and save water.
  - Estimated Cost - \$320,000
    - 75% Cal OES/FEMA = \$240,000
    - 25% CVWD = \$80,000
- Emergency Preparedness Education Site and Water Refilling Station at Rosemont Reservoir
  - Estimated Cost - \$150,000
    - 75% Cal OES/FEMA = \$112,500
    - 25% CVWD = \$37,500



# Local Hazard Mitigation Plan

## Next Steps

- Circulate plan internally for review
- Post draft plan for 2-week public comment period
- Plan submitted to Cal OES and FEMA for approval
- Following approval – needs adoption by Board
- Send adoption resolution to Cal OES



# Local Hazard Mitigation Plan

## HOW SHOULD WE PREPARE FOR A NATURAL DISASTER?



LOCAL HAZARD MITIGATION PLAN

## SEEKING PUBLIC COMMENT

**FLOODING**  
**EARTHQUAKES**  
**WILDFIRES...**

HELP US DEVELOP A PLAN TO INCREASE RESILIENCY  
BEFORE, DURING, AND AFTER A NATURAL DISASTER



JOIN OUR LOCAL HAZARD MITIGATION PLAN MEETING

APRIL 21, 2021 @ 7 PM

ZOOM MEETING ID: 883 6840 2592

PASSCODE: 604761

VISIT [WWW.CVWD.COM](http://WWW.CVWD.COM) FOR MORE INFORMATION



# Local Hazard Mitigation Plan

## Questions & Answers

### *Acknowledgments*

#### [Crescenta Valley Water District](#)

David Gould – Director of Engineering

Jennifer Bautista – Project Coordinator

Nem Ochoa – General Manager

#### [Tetra Tech, Inc.](#)

Rob Flaner – Project Manager

Bart Spencer – Project Lead

Des Alexander – Profiling Lead

Carol Baumann – Risk Analyst/Assessment Lead