Mission Viejo Local Hazard Mitigation Plan Update

C.E.P.A. Member Presentation

April 13, 2023





Meeting Outcomes

Provide and Overview of Mission Viejo's LHMP Update Process

Share Mission Viejos's Hazards of Concern

Share Mission Viejo's Potential Mitigation Strategies

Enlist Feedback from CEPA Members

Who is this Plan For?

Emergency Management Staff

City Departments

Stakeholders

Residents, CEPA Members, and Businesses

- Pursue Grants
- Reduce future hazard risks
- Increase funding for project and programs

- Opportunities to partner with the City
- Opportunities to leverage federal grants for community benefit

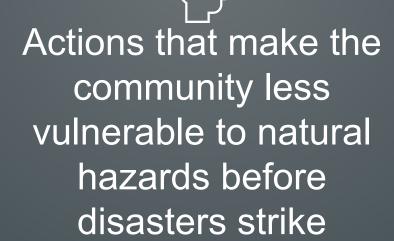
- Reduce future hazard risks
- Improved quality of life

What is Hazard Mitigation?



Sustained actions taken to reduce or eliminate long-term risk to life and property from hazards







Communities reduce their vulnerability through the development of a Local Hazard Mitigation Plan (LHMP)



Reduces injury, loss of life, property damage, and loss of services from natural disasters.

AB 2140 Compliance

Eligibility for FEMA Grants:

Building Resilient Infrastructure and

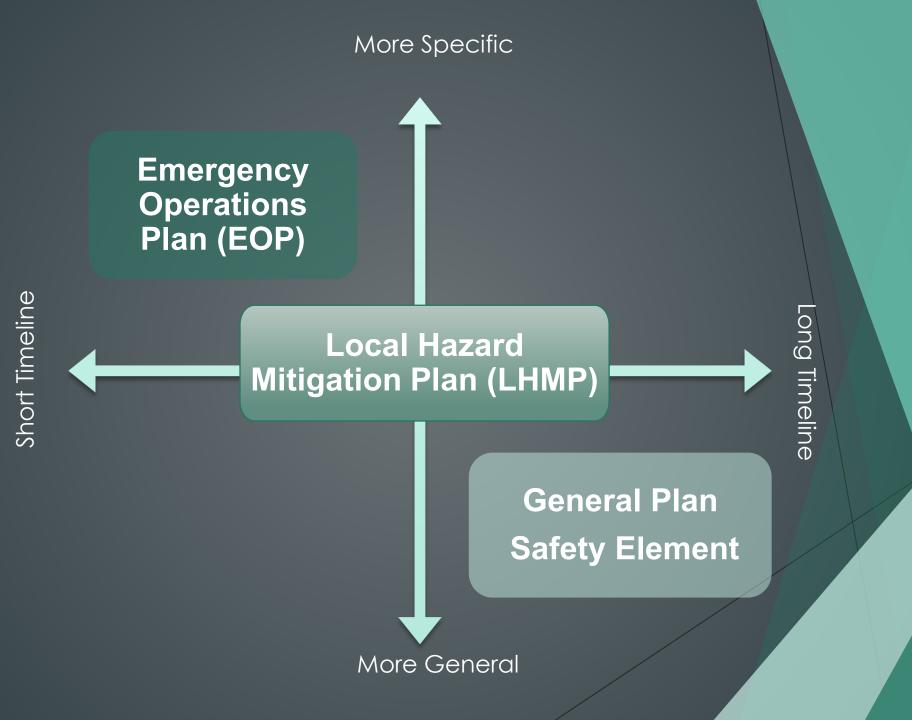
Communities (BRIC)*

Flood Mitigation Assistance (FMA)

Hazard Mitigation Grant Program (HMGP)

* Replaces the Pre-Disaster Mitigation (PDM) Grant Program

Fitting the pieces together



Earthquake/Geologic Hazards (Seismic Shaking, Liquefaction)

Severe Weather (Windstorm, Extreme Heat, Winter/Coastal Storms)

Wildfire

Landslide (Earth Movement)

Flooding (Including Dam Inundation)

HAZARD RANKING WORKSHEET - City of Mission Viejo 2023 LHMP

Hazard Type	Probability	Impact			
		Location	Primary Impact	Secondary Impacts	Hazard Planning Consideration
Severe Weather (Windstorm)	Highly Likely	Extensive	Severe	Limited	High
Earthquake	Likely	Extensive	Severe	High	High
Winter/ Coastal Storms	Highly Likely	Significant	Moderate	Limited	Medium
Wildfire	Highly Likely	Limited	Severe	Moderate	Medium
Severe Weather (Extreme Heat)	Highly Likely	Extensive	Weak	Negligible	Medium
Landslide (Earth Movement)	Highly Likely	Negligible	Severe	Limited	Medium
Flooding (Includes Dam Inundation)	Occasional	Limited	Moderate	Limited	Medium

^{*} Climate Change considerations discussed as appropriate within this hazard.

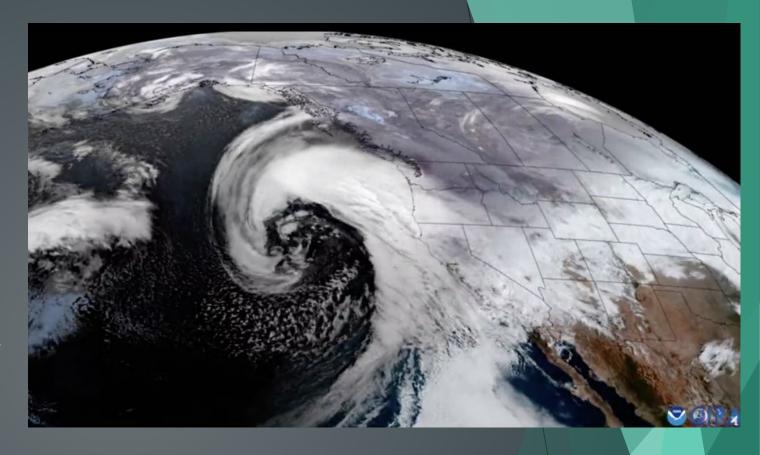
Severe Weather Winter/Coastal Storms

Winter/Coastal Storm - Coastal storms happen when different meteorological conditions converge. Coastal storms are organized systems that have unique characteristics, but each type can turn deadly due to their hazardous consequences — sustained destructive winds, heavy rainfall, storm surge, coastal flooding, and erosion.

Winter/Coastal Storm events will continue in the future and are expected to change as a result of climate change.

Recent Events

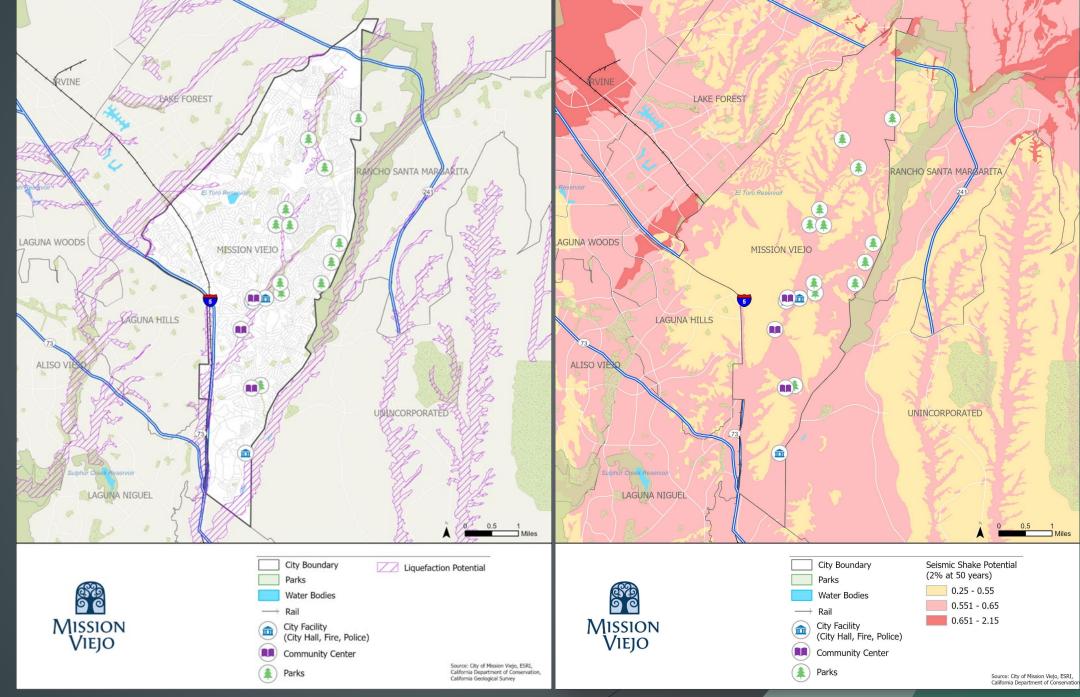
- December 2021, major storm brought intense rainfall, flash flooding, and high winds to the city, and Orange County.
- December 2022, massive winter storms impact southern California causing flash flooding and damage throughout Orange County.
- January 2023, another winter storm in a series of major storms impacts all of southern California and Orange County.



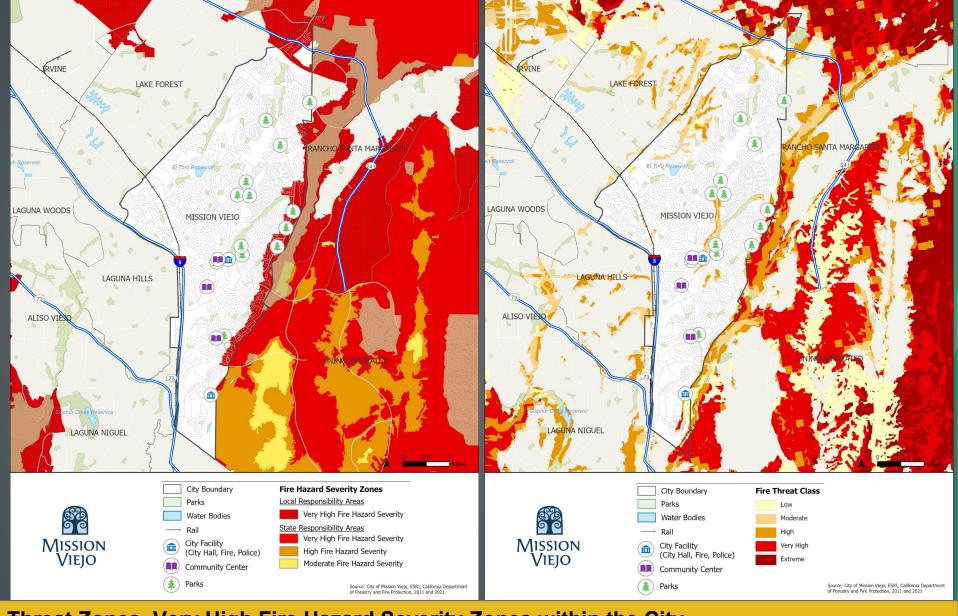
Winter/Coastal Storms are a city-wide hazard and does not necessarily affect one area of the city more than another.

Vulnerable populations, however, may experience greater hardship in mitigating the effects of winter storms.

Seismic Hazards



Wildfire



Fire Threat Zones, Very High Fire Hazard Severity Zones within the City

- Local Responsibility Area (LRA) –City of Mission Viejo (OCFA)
 - State Responsibility Area (SRA) OCFA

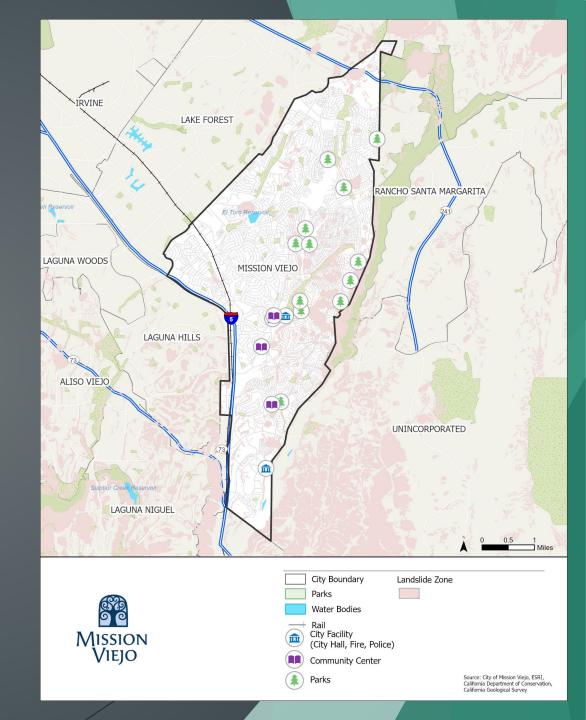
Landslide/Earth Movement Hazards

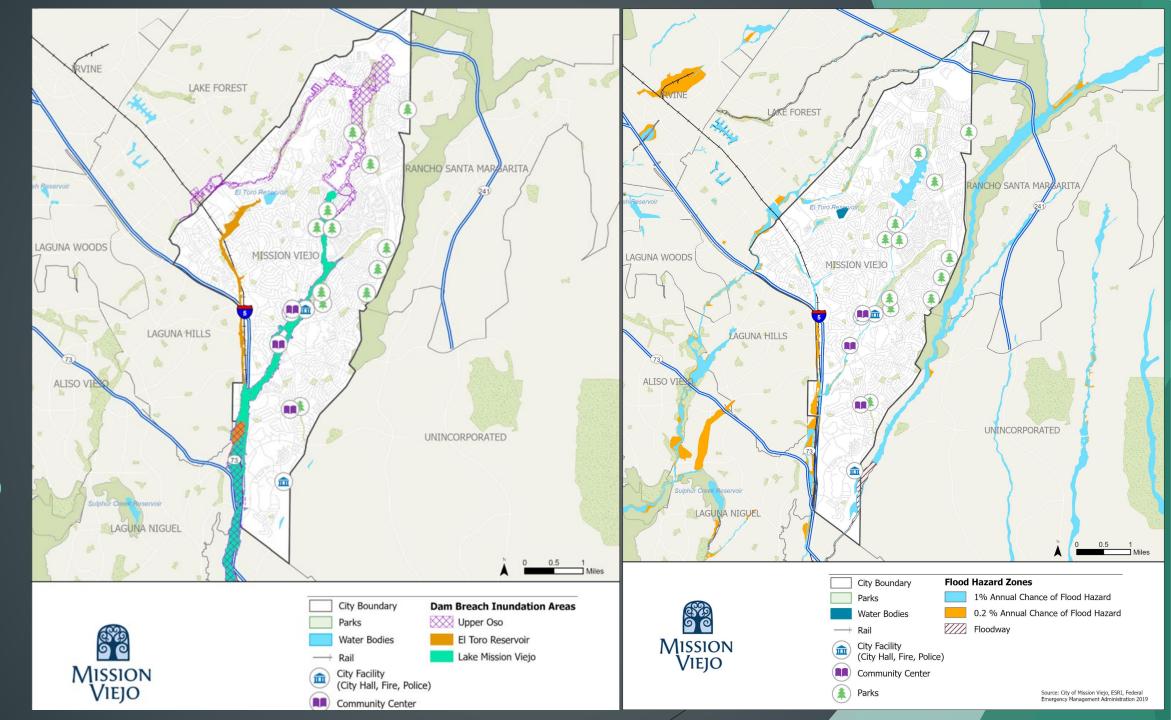
Masses of earth whose center of gravity has moved outward and downward. Can destroy homes, businesses, and more importantly can injure and kill people caught in the shifting earth. Areas of concern are generally found in locations with steep slopes within the City.

Recent Events

1998/99 - slope failure along the Mojave Slope/Open Space area in the City. No structures were damaged.

2005 - large residential landslide between Ferrocarril and Encorvado Lane. Landslide consisted of an approximate 300 foot wide by 70-foot-high slope failure that occurred during winter storms.





Potential Types of Mitigation Actions

Plans and Regulations

- Ordinances
- Regulations
- Guidelines

Structural Projects

- Infrastructure improvements
- Utility relocation
- Structural Retrofits

Natural Systems Protection

- Stream restoration
- Erosion control

Education Programs

- Outreach materials
- Websites
- Presentations
- Trainings

Preparedness and Response Actions

- Mutual aid agreements
- Equipment purchases
- Notification protocols

High Priority Mitigation Actions in the 2023 Update

Emergency Preparedness Activities

- Conduct regular emergency preparedness drills and training exercises for City Staff, including all hazards training at CSTI.
- Maintain at least one emergency power-generating station in all critical facilities that the City could use as an emergency public assembly area, such as City Hall, Community Centers, and any other locations designated in the future.
- Increase number of City staff who have CalOES Safety Assessment Program (SAP) credentials.

High Priority Mitigation Actions in the 2023 Update

Multiple Hazards

 Install and harden emergency backup power at critical facilities deemed necessary. Prioritize installations for facilities that serve as key cooling/warming centers, and evacuation centers.

(Hazards addressed: All)

Wildfire

Conduct regular fuel modification projects to reduce fire hazard risks, such as clearing out dead vegetation in parks, open spaces, right-of-way embankments, and areas adjacent to the wildland-urban interface.

How Can You Get Involved?

Check Out the LHMP Webpage

Comment on the Draft Plan

 Expected to be released in Spring/Summer 2023



Online Survey

C.E.P.A. Member Feedback

Questions about the LHMP Planning Process

Questions about the Hazards of Concern?

Thoughts on Potential Mitigation Strategies

Other Suggestions or Comments

Questions?

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"OK, that's five votes in favor of saving the historic old hotel, and one vote for stomping it to bits and eating everyone inside!"