



# Committee Meeting #4

CITY OF MANHATTAN BEACH

## LOCAL HAZARD MITIGATION PLAN (LHMP)

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Tuesday, January 30, 2024

9:30 AM – 11:30 AM

City of Manhattan Beach City Council Chambers &  
Virtual (Zoom)

# Hazard Mitigation Planning Committee Meetings



## Committee Meeting #1

- **November 28**
- HMP Education
- Identifying Hazards of Prime Concern

## Committee Meeting #2

- **December 12**
- Understanding hazards of prime concern
- Vulnerability and Impacts Discussion

## Committee Meeting #3

- **January 9**
- Continue Vulnerability and Impacts Assessment of Hazards and Projects

## Committee Meeting #4

- **January 30**
- Final prioritized project list and prioritization survey
- Risk Analysis
- Next Steps Discussion





# Welcome and Introductions

- **City of Manhattan Beach**
  - Amanda MacLennan – LHMP Project Manager, Manhattan Beach Emergency Preparedness Administrator
- **Constant Associates**
  - Dylan Yates – Project Manager
  - Monica Machacek-Chiapello – Deputy Project Manager
  - Mona Bontty – Project Sponsor
  - Joe Jordan – Project Support



# Attendance

If you have been designated a member of the **hazard mitigation planning committee**, please type your name, title and organization in the chat.

Example: John Smith, Earthquake Specialist, USGS



# Ground Rules

- Please keep all comments respectful and relevant to the discussion topics
- Use the raise hand function to indicate that you would like to speak
- Discussions will be captured in meeting minutes and your feedback will be incorporated and documented in the hazard mitigation plan
- This meeting is being recorded
- Feel free to use the chat throughout the meeting to share questions or thoughts



# Agenda

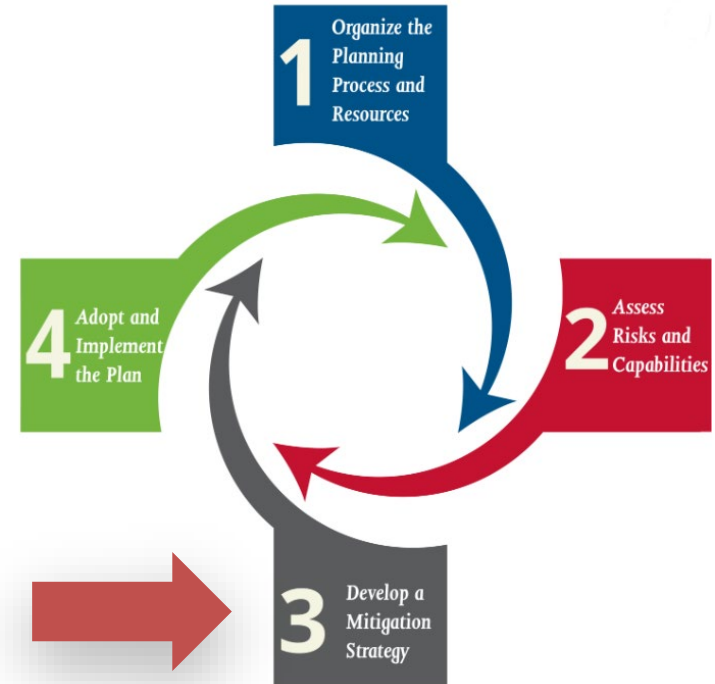
- Welcome and Administration
- Public Comment
- Vulnerability and Impact Assessment Update
- Review Final Project List and STAPLE-E Method
- Review Risk Analysis Process
- Plan Maintenance and Next Steps
  - City Leadership Review of Projects
  - Continued Committee/Community Engagement and Partnership
  - Public/Committee Review Period
  - Cal OES/FEMA Review Process
  - Adoption/Resolution of the Plan
  - Post-Adoption Outreach and Activities
- Next Steps and Action Items



# Meeting Purpose

The purpose of today's planning committee meeting:

1. Review Final Project List and conduct STAPLE-E Method to assess the priority level of each project
2. Conduct Risk Assessment for each hazard of prime concern
3. Discuss our next steps in the HMP planning process



# Vulnerability and Impact Assessment Completed

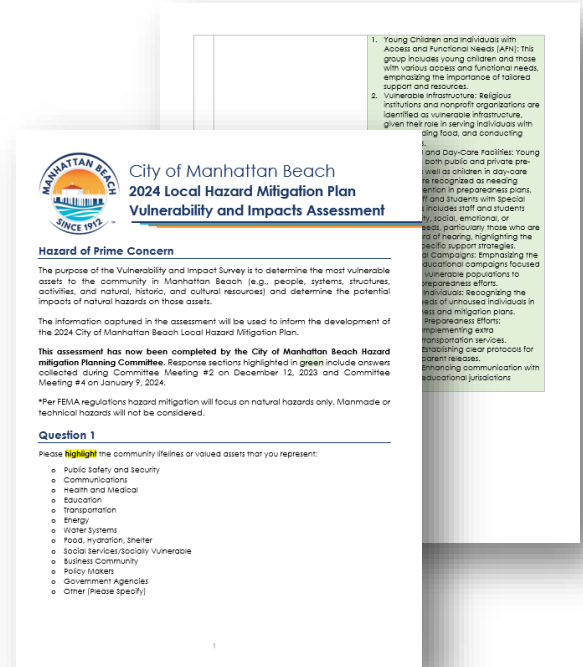
Determined the most vulnerable assets in Manhattan Beach, including people, systems, structures, activities, and natural, historic, and cultural resources.



1. Assess the potential impacts of natural hazards on these assets.



1. Use this information to identify potential mitigation projects/actions to reduce the risk of natural hazards on our most vulnerable assets.





# Public Comment





# Review Final Project List and STAPLE-E Method

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# Assessing Feasibility and Eligibility of Potential Projects

Hazards	Projects
All Hazards	Provide generators for the Emergency Operations Center (EOC).
Geological Hazards (Earthquake, Landslide)	Install landslide detection and potential protection measures behind Manhattan Village Senior Center.
Severe Weather (High Winds, Extreme Heat, Severe Rainstorms), Wildfire, Geological Hazards (Earthquake, Landslide)	Generators for Manhattan Village Senior Villas.
Inland Flooding	Create additional water diversion measures to prevent flooding on Marine eastbound towards Sepulveda and near Sand Dune Park.
Coastal Hazards (Tsunami, Daily Tides, King Tides, El Nino, Beach and Coastal Erosion)	Build a tidal wall to protect the southern section of The Strand from coastal hazard impacts.



# STAPLE-E Method

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The purpose of the **STAPLE-E Method Risk Assessment**:

Assess the priority level of each project based on the following factors:

1. **Social** – What is the level of community acceptance?
2. **Technical** – Is this a long-term solution or short-term solution?
3. **Administrative** – Is there adequate staffing, is outside help needed?
4. **Political** – Is the action politically acceptable to City officials and other relevant jurisdictions and political entities?
5. **Legal** - Are there potential legal barriers or consequences that could hinder or prevent the implementation of the action?
6. **Economic** – Is this project cost effective?
7. **Environmental** – Are there many or few environmental impacts?



# STAPLE-E Method Survey

## Survey Link in the chat:

<https://www.surveymonkey.com/r/RHH9FPG>

### Social:

- 1 - Low community acceptance/priority
- 2 - Moderate community acceptance/priority
- 3 - High community acceptance/priority

### Technical:

- 1 - Short-term fix
- 2 - Medium-term fix
- 3 - Long-term fix

### Administrative:

- 1 - High staffing, outside help needed
- 2 - Some staffing, no outside help needed
- 3 - Low staffing, no outside help needed

### Political:

- 1 - Low political support/acceptance
- 2 - Moderate political support/acceptance
- 3 - High political support/acceptance

### Legal:

- 1 - Many legal barriers
- 2 - Some legal barriers
- 3 - Minimal legal barriers

### Economic:

- 1 - High Cost (\$\$\$): Greater than \$250,000
- 2 - Medium Cost (\$\$): \$100,001 to \$250,000
- 3 - Low Cost (\$): \$100,000 or less

### Environmental:

- 1 - Many environmental impacts
- 2 - Some environmental impacts
- 3 - Few environmental impacts





# Review Risk Analysis Process

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# Risk Analysis of the Hazards of Prime Concern

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The purpose of the **Risk Analysis**:

Assess the level of risk for each hazard based on the following factors:

- 1. Probability:** Likelihood of the hazard occurring within a given span of years.
- 2. Human Impacts:** Risk of injuries and deaths from the hazard.
- 3. Property Impacts:** Amount of residential property damage associated from the hazard.
- 4. Business Impacts:** Amount of business damage associated from the hazard.



# Risk Analysis Survey

**Probability:** Likelihood of the hazard occurring within a given span of years.

- 1 - Less than once every 10 years
- 2 - About once every 5 - 10 years
- 3 - About once every 2 - 5 years
- 4 - About once a year
- 5 - More than once a year

**Human Impacts:** Risk of injuries and deaths from the hazard

- 1 - Death very unlikely, injuries are unlikely
- 2 - Death unlikely, injuries are minimal
- 3 - Death unlikely, injuries may be substantial
- 4 - Death possible, injuries may be substantial
- 5 - Deaths probably, injuries will likely be substantial

**Property Impacts:** Amount of residential property damage associated from the hazard.

- 1 - Less than \$500 in damages
- 2 - \$500 - \$10,000 in damages
- 3 - \$10,000 - \$500,000 damages
- 4 - \$500,000 - \$2,000,000 in damages
- 5 - More than \$2,000,000 in damages

**Business Impacts:** Amount of business damage associated from the hazard.

- 1 - Less than 3 businesses closed for only a day
- 2 - More than 3 businesses closed for a week
- 3 - More than 3 businesses closed for a few months
- 4 - More than 3 businesses closed indefinitely or relocated
- 5 - A top-10 local employer closed indefinitely







# Next Steps

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# Next Steps in the Manhattan Beach LHMP Process

Continued Committee/Community Engagement and Partnership (Ongoing)

City Leadership Review and Approval of Projects (February)

LHMP Public/Committee Review Period (March)

Cal OES/FEMA Review Process of City Approved Draft LHMP (April)

Adoption/Resolution of the Plan and Post-Adoption Outreach and Activities (TBD)



# Action Items

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## **CONSTANT ASSOCIATES**

- Develop the first draft of the 2024 Local Hazard Mitigation Plan (LHMP)

## **City of Manhattan Beach:**

- Post meeting minutes and materials on LHMP website.

## **Committee Members/Members of the Public:**

- Provide feedback on the draft plan when it becomes available for public/committee review.
- Review the Manhattan Beach LHMP website for plan status and action items.
- Respond to any requests for information or engagement via email.





# Questions or Comments?

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# Thank You

Amanda MacLennan ([amaclennan@manhattanbeach.gov](mailto:amaclennan@manhattanbeach.gov))

Dylan Yates ([dylan.yates@constantassociates.com](mailto:dylan.yates@constantassociates.com))

Monica Machacek-Chiapello ([monica@constantassociates.com](mailto:monica@constantassociates.com))

Mona Bontty ([mona.bontty@constantassociates.com](mailto:mona.bontty@constantassociates.com))

Joe Jordan ([joe.jordan@constantassociates.com](mailto:joe.jordan@constantassociates.com))

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