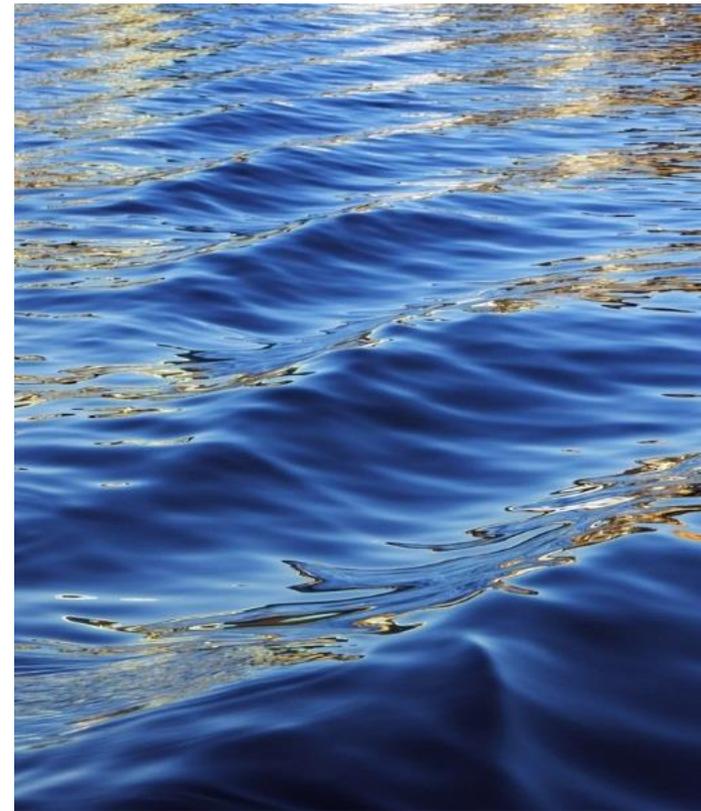


Hazard Mitigation Planning in the City of Alameda



Hazard Mitigation Planning



- What is Hazard Mitigation Planning?
- FEMA required Update to Local Hazard Mitigation Plan
- Invite input on how plan can specifically address the disability community and the social service needs of the people of Alameda
- Alameda Community (people, built environment, economy and society)
- Natural Hazard Identification
- Mitigation strategy



What is Hazard Mitigation Planning?

- Natural disaster that threatens an area.
- Many hazards are predictable.
- Mitigation actions are intended to lessen the impact of known hazards.
- *Hazard Mitigation Planning* - a process that identifies natural hazards that threaten a community, assesses the impacts of those hazards, develops and prioritizes mitigation actions.



Local Hazard Mitigation Plan

- Disaster Mitigation Act of 2000 requires a FEMA approved Plan to be eligible for post-disaster funds.
- Plans must be updated every five years.
- Alameda was an Annex to ABAG Regional Plan
- 2015 Update will be City's own plan



Annex to 2010 Association of Bay
Area Governments
Local Hazard Mitigation Plan
Taming Natural Disasters
City of Alameda

Public Participation is Critical Component of Planning



- City issued a survey for public input
- Paper copies available tonight or Survey Monkey on City website
- Tonight's meeting is intended to introduce the topic and invite input from this group's unique perspective on community

- An additional public informational meeting will be held late October
- New City website established about hazard mitigation



2015 Update to Local Hazard Mitigation Plan

Vision Statement:

The City of Alameda will be better prepared for future hazards by having reduced exposure and reduced short and long term loss due to hazards.

Plan Goals:

- Reduction of hazard exposure where possible.
- Protection of the health, safety and welfare of City of Alameda residents, workers and visitors.
- Minimal damage of public and private property.
- Minimal damage of the natural environment.
- Minimal disruption of essential services, facilities, and infrastructure.
- Timely and complete recoveries.
- Increased understanding and awareness of hazards and hazard mitigation by City employees and the public.

Technical Model for Mitigation Plan

IDENTIFY
HAZARDS AND
RISK

VULNERABILITY
ASSESSMENT

EXPOSURE

IDENTIFY
MITIGATION
ACTIONS

PLAN
IMPLEMENTATION

Alameda Community– Population, Age

- 2010 Census: Alameda’s population was 73,812.
- ABAG projects City population to grow by 8.8% between 2010 and 2020.
- Alameda’s age breakdown is roughly comparable to Alameda County as a whole.

Age Group	Alameda			Alameda County
	1990	2000	2010	2010
Under 15	17.3%	18.0%	17.1%	20.8%
15 – 19	5.1%	5.5%	5.7%	6.4%
20 – 34	31.4%	20.4%	18.3%	23.7%
35 – 54	27.3%	34.0%	31.7%	31.1%
55 – 64	7.2%	8.8%	13.8%	7.8%
65 +	11.7%	13.3%	13.5%	10.2%
Total	100.0%	100.0%	100.0%	100.0%

Alameda Community– People, Economy

- Median income for a household of four in Alameda was \$75,832 (2011), which is significantly higher than the county (\$70,821) and the Bay Area median (\$61,632).
 - More than 1/3 of Alameda households are categorized as lower income.
- 16% of Alamedans report that a family member has a disability.
 - Limited data on geographic distribution
- Alameda is diverse - between 2000 and 2010:
 - non- Hispanic white population declined 12 percent
 - Asians and Pacific Islanders increased by 22 percent
 - Hispanic population (of every race) grew by 20 percent.

Alameda Community – Built Environment

Utilities:

- overhead (power, telecom, cell towers)
- underground (power, telecom, gas, sewer, storm, water)
- Solid waste handling (landfills)
- Abandoned fuel pipelines on Alameda Point.

Transportation:

- streets and pathways
- bridges, tube and overpass, ferry terminal, fueling stations, parking garages, signals
- marinas, docks and waterways

Alameda at a Glance – Built Environment

Buildings

- Residences
- Commercial establishments (basic needs, reconstruction supplies, employment, tax base, banking)
- City, regional, state and federal governmental buildings (first responder facilities)
- Hospitals and Clinics, other medical offices
- Schools, preschools, colleges, Churches
- Assisted living and nursing homes, elder day care
- Substations and telecom switching
- Sewer and storm pump stations
- Historic and architectural resources

Open Space:

- City and Regional parks/playgrounds and school playgrounds, golf course
- Shore protection (riprap), bluffs, marshes, and beaches, Elsie Romer Bird Sanctuary

Hazard Identification and Analysis

Two main natural hazards that threaten Alameda:

- Earthquakes
- Flooding
- Sea level rise

Lesser natural hazards for Alameda:

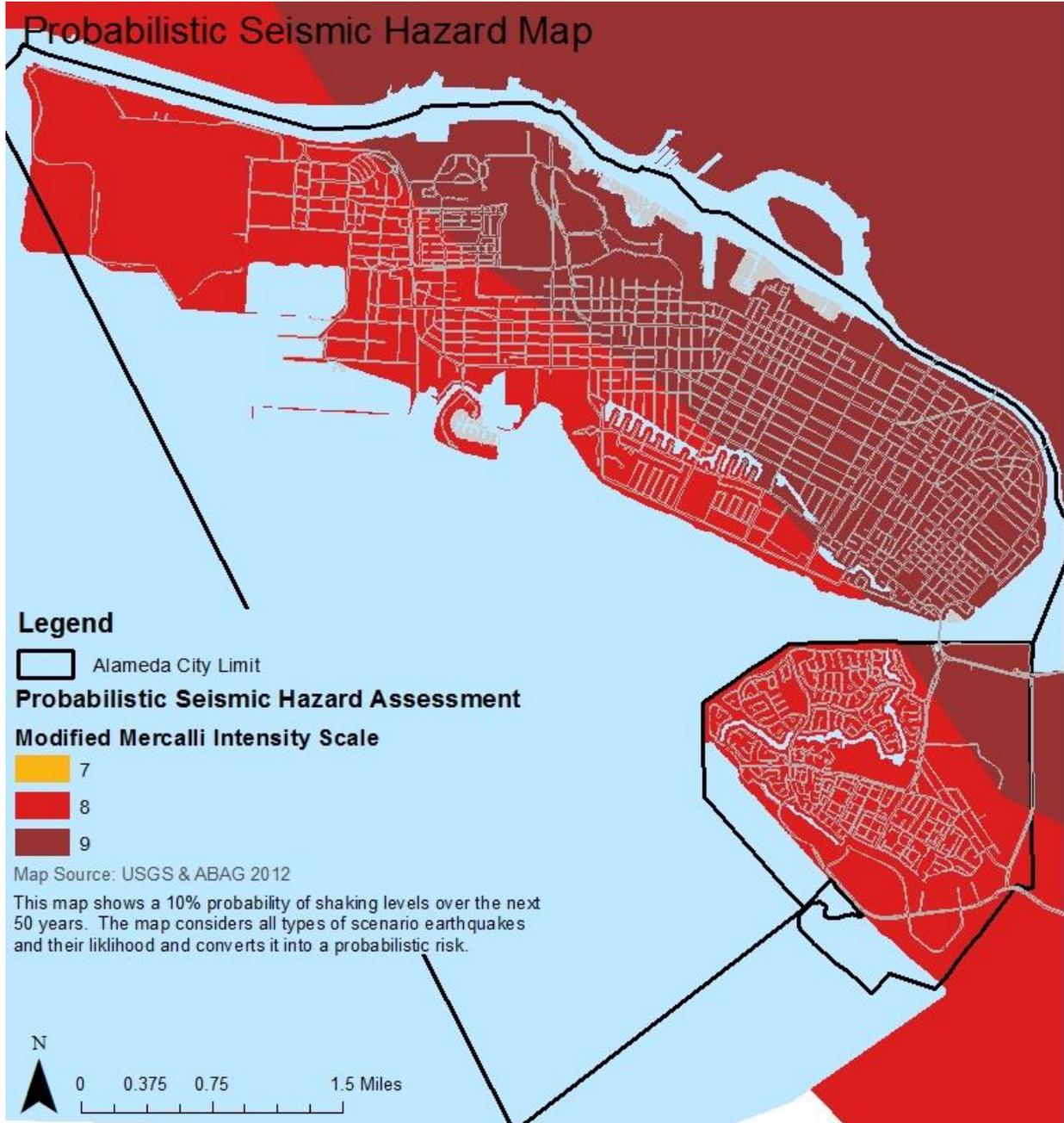
- Extreme drought
- Extreme heat
- Tsunami

Hazards ruled out as not at likely to occur in Alameda:

- wild land fires, train derailments, landslides, earthquake fault line ground rupture, pipeline explosions, and extreme cold



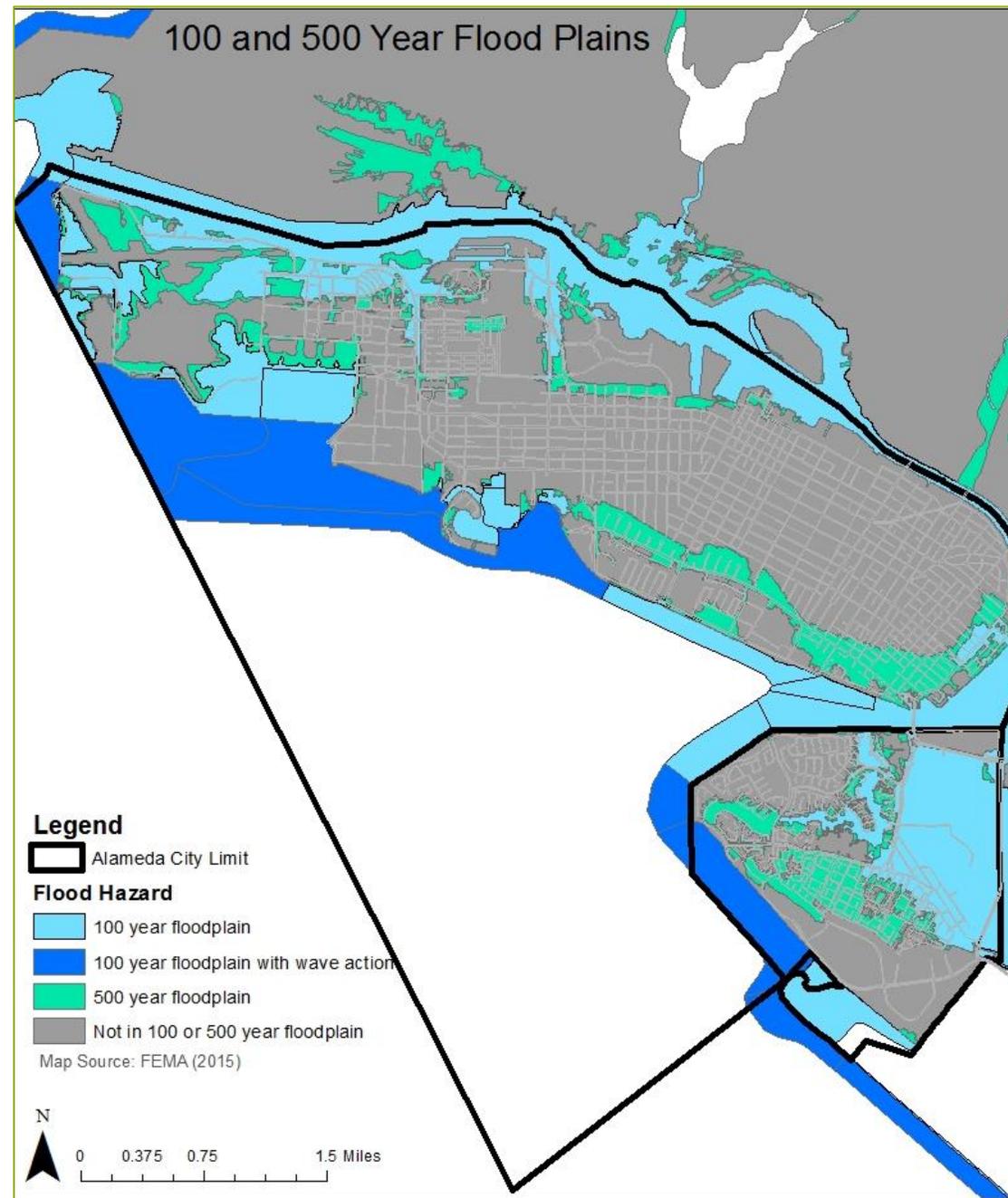
Earthquake Hazard in Alameda



Storm and Tides in Alameda

*100 Year floodplain is the area affected by a storm event having a 1% chance of being equaled or exceeded in any given year.

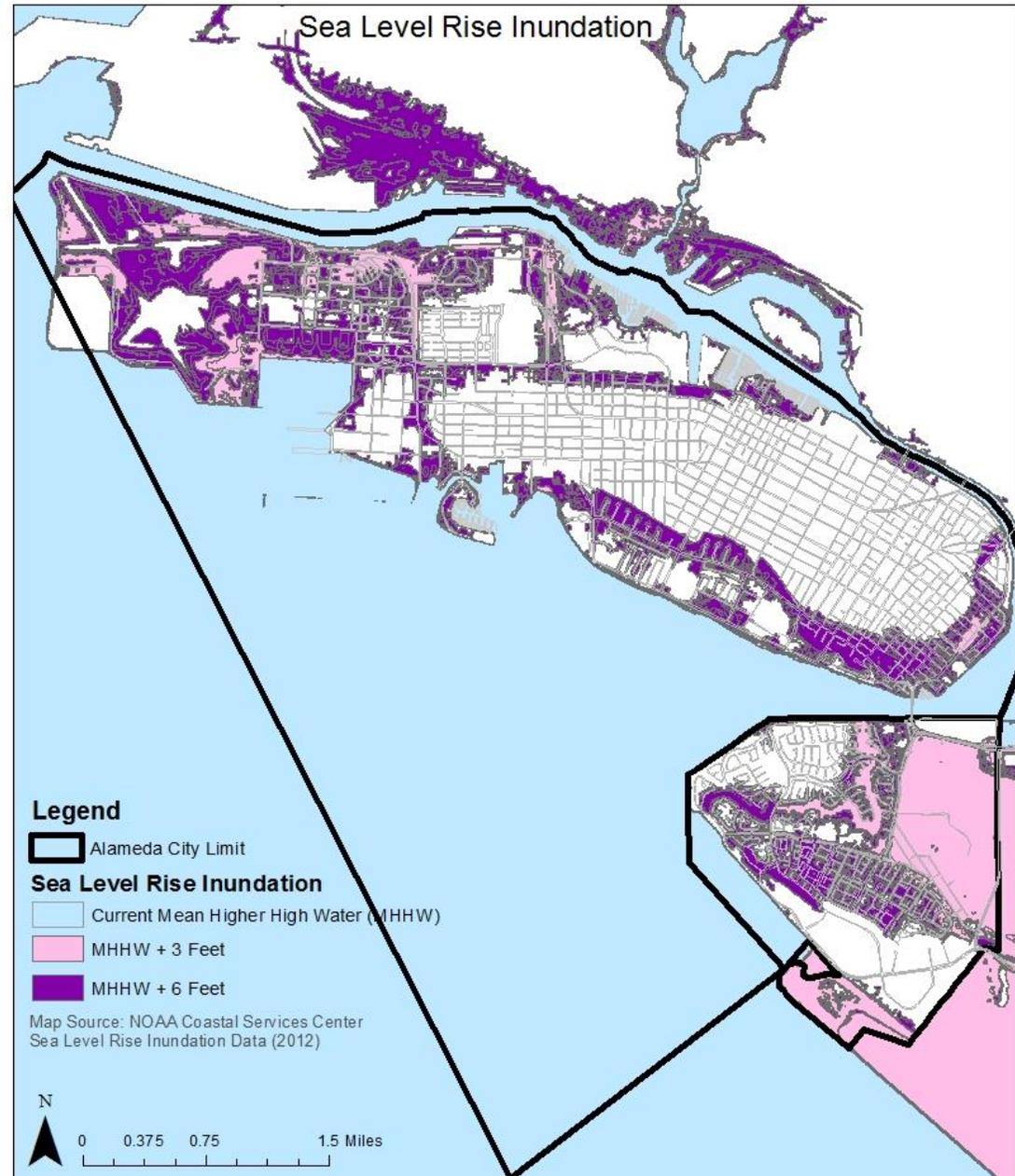
*500 Year floodplain is the area affected by a storm event having a 0.2% chance of being equaled or exceeded in any given year.



Sea Level Rise

Variability of sea level projections exist in scientific community. After mid century – more uncertainty and variability.

Time Period	Amount of Sea level Rise
2000-2030	1.5 – 12"
2000-2050	5 – 24"
2000-2100	17 – 66"



Mitigation Strategy

Disaster mitigation is a foundational element of disaster resilience.



- Alameda has accomplished a lot towards hazard mitigation
- A lot can still be done
- Public input on identify and prioritize mitigation strategies



Mitigation Accomplishments and Ongoing Activities

Goal: Reduce impact of ground shaking on private and public structure

- **Ongoing Action:** City continues Soft-Story Ordinance, which contains mandatory requirements for seismic retrofit standards.
- **Ongoing Action:** City continues Wood Frame Retrofit Ordinance, which outline voluntary minimum standards to improve the seismic performance of these residential buildings
- **Completed Action:** Unreinforced Masonry Building Retrofit Program addressed all of these building types in the City.
- **Completed Action:** Seismic upgrades at Carnegie Library, City Hall
- **Completed Action:** Construction of Alameda Free Library to modern day seismic standards
- **Ongoing Action:** Bridge retrofiting

Mitigation Accomplishments and Ongoing Activities

Goal: Minimize disruption of essential services, facilities and infrastructure

- **Ongoing Action:** Rehabilitation of 3 miles a year of sewer to a material known better to withstand ground shaking.
- **Ongoing Action:** Renovation of storm and sewer pump stations to better withstand disasters
- **Completed Action:** City upgraded to regional communication system for better performance post disaster
- **Ongoing Action:** Housing Authority performed structural evaluation of all critical senior and low income housing facilities t. Will evaluate, prioritize and secure funding.

Mitigation Accomplishments and Ongoing Activities

Goal: Reduce impact of flooding on private and public structures

- **Ongoing Action:** City continues participation in the National Flood Insurance Program, allowing affordable insurance for property owners and the enforcement of floodplain management regulations.
- **Planned Action:** City participation in the Community Rating System (CRS)
- **Ongoing Action:** Participation in the Adapting to Rising Tides, Oakland/Alameda Resiliency Project

Goal: Protect health, safety, and welfare of people and foster a timely recovery

- **Completed Action:** Information Technology upgrades
- **Planned Action:** Construction of New Emergency Operations Center

Mitigation Accomplishments and Ongoing Activities

Goal: Increase understanding and awareness of hazards and hazard mitigation

- **Ongoing Action:** Community Emergency Response Team (CERT)
- **Ongoing Action:** Maintain new City website dedicated to Hazard Mitigation
- **Ongoing Action:** Map Your Neighborhood” program
- **Planned Action:** Outreach to hospital, schools, nursing homes, etc..



How Else Can You be Prepared & Resilient

Educate yourself (resources here tonight):

- “Earthquake Preparedness Guide for People with Disabilities and other Access or Functional Needs”
- “Prepare for Emergencies Now: Information for Pet Owners”
- “Preparing Makes Sense for People with Disabilities, Others with Access and Functional Needs and the Whole Community”
- “Emergency Preparedness: Taking Responsibility for your Safety”

Participate in Mitigation Planning

- The public is welcome and encouraged to participate in the City's Hazard Mitigation planning process.
- Please complete our survey at this link:
<https://www.surveymonkey.com/r/BMK7FJ7>
The City wants to know what hazards you have experienced, what you are concerned about, and what you think the City should do about them.
- Public informational meeting will be held sometime in October/November. Date will be announced on City website: <http://alamedaca.gov/hazard-mitigation-planning>
- Or, provide your contact information this evening and we can communicate with you directly.