

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

City of Piedmont

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Introduction

The City of Piedmont is a small charter city in Alameda County, California. Surrounded by the City of Oakland, Piedmont is 1.8 square miles. The population is 11,000. The majority of the City is residential. A map of the City's boundary is provided in exhibit A.

The Regional Planning Process

The City of Piedmont participated in various ABAG workshops, conferences, and meetings, including:

- 1 subregional meeting to review priorities
- 2 Wildfire workshops
- 1 teleconference

For more information on these meetings and for rosters of attendees, please see Appendix A and H in the ABAG Multi-Jurisdictional Local Hazard Mitigation Plan 2010 (MJ-LHMP). In addition, the City of Piedmont has provided written and oral comments on the multi-jurisdictional plan and provided information on facilities that are defined as "critical" to ABAG.

The Local Planning Process

Representatives from multiple City departments met on a regular basis to identify and prioritize appropriate mitigation strategies. Personnel involved in these meetings included senior management and staff from the Fire Department, City Planner's Office, and the Department of Public Works. The group was made up of architects, planners, building department officials, facility managers, civil engineers, public health specialists, emergency managers, and sheriff and fire officials.

At the first meeting, general priorities and appropriate departments were identified. Subsequent meetings identified mitigation strategies, prioritized said strategies, and reviewed preliminary budgets and potential funding sources for strategies designated as "High" priority for City owned-and-operated facilities

Public Meetings

Opportunity for public comments on the DRAFT mitigation strategies was provided at a public meeting at the City of Piedmont Emergency Operations Center on September 18, 2011 and advertised in the Piedmont Post. The draft mitigation strategies were also published on the City of Piedmont website for public viewing. Public comments were received from the internet posting. These comments were irrelevant to the annex. Copies of the internet posting are included as **Exhibit B** to the City of Piedmont 2010 Annex.

City Council will adopt the plan in a public meeting via an official Resolution upon approval by FEMA. The mitigation strategies will become an implementation appendix of the Safety Element of the City of Piedmont General Plan.

Hazards Assessment

The ABAG Multi-Jurisdictional Local Hazard Mitigation Plan, to which this is an annex, lists nine hazards that impact the Bay Area, five related to earthquakes (faulting, shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). Maps of these hazards and risks are shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

The City of Piedmont has reviewed the hazards identified and ranked the hazards based on past disasters and expected future impacts. The conclusion is that earthquakes (particularly shaking), and wildfire significant risk for potential loss

While the City of Piedmont has undertaken a number of general hazard mapping activities since the first Safety Element was prepared by the City of Piedmont, all of these maps are less detailed and are not as current as those shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

Past Occurrences of Natural Disasters

The City of Piedmont has experienced a number of different disasters over the last 50 years, including numerous earthquakes, wildfires, and severe storms. The Oakland Hills Firestorm of 1991 extended into Piedmont, burning areas of urban/wildland interface in the City's Northeastern corner.

The Loma Prieta Earthquake of 1989 is another example of the kind of large scale disaster which can strike the Bay Area. This earthquake damaged several homes in the City of Piedmont and exceeded the immediate capabilities of the City's small fire and police departments. Reconstruction continues some two decades later as the replacement for Oakland-Bay Bridge is still several years from completion.

More information on State and Federally declared disasters in the City of Piedmont can be found at <http://quake.abag.ca.gov/mitigation/ThePlan-D-Version-December09.pdf>

Risk Assessment

Urban Land Exposure

The City of Piedmont examined the hazard exposure of Piedmont urban land based on information in ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. The "2005 Existing Land Use with 2009 Mapping" file was used for this evaluation (in the existing plan, the file used was "Existing Land Use in 2000").

In general, the hazard exposure of the City of Piedmont is unchanged.

Exposure (acres of urban land)			
Hazard	Plan Year 2005	Plan Year 2010	Change
<i>Total Acres of Urban Land</i>	1150	1150	0
Earthquake Faulting (within CGS zone)	0	0	0
Earthquake Shaking (within highest two shaking categories)	0	0	0
Earthquake-Induced Landslides (within CGS study zone)	0	0	0
Liquefaction (within moderate, high, or very high liquefaction susceptibility)	0	0	0
Flooding (within 100 year floodplain)	0	0	0
Flooding (within 500 year floodplain)	0	0	0
Landslides (within areas of existing landslides)	0	0	0
Wildfire (subject to high, very high, or extreme wildfire threat)	0	0	0
Wildland-Urban Interface Fire Threat	40	40	0
Dam Inundation (within inundation zone)	0	0	0
Sea Level Rise	not applicable		
Tsunamis (within inundation area)	not applicable		
Drought	1150	1150	0

Infrastructure Exposure

The City of Piedmont also examined the hazard exposure of infrastructure within the jurisdiction based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickdbh2.html>. Of the 39 miles of roadway in the City of Piedmont, the following are exposed to the various hazards analyzed.

Exposure (miles of infrastructure)						
Hazard	Roadway		Transit		Rail	
	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010
<i>Total Miles of Infrastructure</i>	39	39	0	0	0	0
Earthquake Shaking (within highest two shaking categories)	0	0	0	0		0
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	0	0	0	0	0	0
Liquefaction Hazard (within CGS study zone)	0	0	0	0	0	0

Earthquake-Induced Landslides (within CGS study zone)	0	0	0	0	0	0
Earthquake Faulting (within CGS zone)	0	0	0	0	0	0
Flooding (within 100 year floodplain)	0	0	0	0	0	4
Flooding (within 500 year floodplain)	0	0	0	0	0	2
Landslides (within areas of existing landslides)	0	0	0	0	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0	0	0	0	0
Wildland-Urban Interface Fire Threat	5	5	0	0	0	0
Dam Inundation (within inundation zone)	0	0	0	0	0	0
Sea Level Rise	not applicable					
Tsunamis	not applicable					
Drought	not applicable					

Exposure of City-Owned Buildings, Plus Critical Healthcare Facilities and Schools

Finally, the City examined the hazard exposure of critical health care facilities and schools located within the City of Piedmont and the City owned buildings based on the information on ABAG’s website at <http://quake.abag.ca.gov/mitigation/pickcrit2010.html>. The City of Piedmont provided a list of the critical facilities it owns to ABAG. ABAG provided a detailed assessment of the hazard exposure of each of its facilities. The following number of facilities is exposed to the various hazards analyzed.

Exposure (number of facility types)								
Hazard	Hospitals		Schools		Locally owned critical facilities		Locally owned bridges and interchanges	
	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010	Plan Year 2005	Plan Year 2010
<i>Total Number of Facilities</i>	0	0	6	6	3	3	1	1
Earthquake Shaking (within highest two shaking categories)	0	0	0	0	0	0	0	0
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	0	0	0	0	0	0	0	0
Liquefaction Hazard (within CGS study zone)	0	0	0	0	0	0	0	0
Earthquake-Induced Landslides (within CGS study zone)	0	0	0	0	0	0	0	0

Earthquake Faulting (within CGS zone)	0	0	0	0	0	0	0	0
Flooding (within 100 year floodplain)	0	0	0	0	0	0	0	0
Flooding (within 500 year floodplain)	0	0	0	0	0	0	0	0
Landslides (within areas of existing landslides)	0	0	0	0	0	0	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0	0	0	0	0	0	
Wildland-Urban Interface Fire Threat	0	0	0	0	1	0	0	
Dam Inundation	0	0	0	0	0	0	0	
Sea Level Rise (exposed to 16in sea level rise)	-		-		-		-	
Sea Level Rise (exposed to 55in sea level rise)	-		-		-		-	
Tsunamis (within inundation area)	-		-		-		-	
Drought	-	-	-	-	-	-	-	-

Repetitive Loss Properties

There are no repetitive loss properties in the City of Piedmont based on the information at <http://quake.abag.ca.gov/mitigation/pickflood.html>

National Flood Insurance Program

The City of Piedmont does not participate in the National Flood Insurance Program.

Mitigation Goals and Objectives

The goal of the ABAG MJ-LHMP is to maintain and enhance a disaster-resistant region by reducing the potential for loss of life, property damage, and environmental degradation from natural disasters, while accelerating economic recovery from those disasters. This goal continues to be the goal of the City of Piedmont in designing its mitigation program.

Additional, the City has the specific objective of reducing the number of public and private buildings within the City that are vulnerable to the effects of earthquakes and wildfire.

Future Mitigation Actions and Priorities

As a participant in the 2010 ABAG multi-jurisdictional planning process, the staff of the City of Piedmont helped in the development and review of the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decision on priority was made based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include being

technically and administratively feasible, politically acceptable, socially appropriate, legal, economically sound, and not harmful to the environment or our heritage.

These draft priorities were submitted the Piedmont City Council. The draft priorities will be provided to the City Council for adoption pending approval of this LHMP by FEMA.

Incorporation into Existing Planning Mechanisms

The City has several planning mechanisms which include the

- ◆ General plan safety element
- ◆ Capital Improvements Plan

The City has a Safety Element in its General Plan that includes a discussion of fire and earthquake hazards. This plan was adopted as an implementation appendix to the Safety Element.

Plan Update Process

As required Disaster Mitigation Act of 2000, the City of Piedmont will update this plan annex at least once every five years, by participating in a multi-agency effort with ABAG and other agencies to develop a multi-jurisdictional plan.

The Fire Department will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis. However, the major disasters affecting our City, legal changes, notices from ABAG as the lead agency in this process, and other triggers will be used. Finally, the Annex will be a discussion item on the agenda of the meeting of Department leaders at least once a year in April. At that meeting, the department heads will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The Department leaders will be responsible for determining if the plan should be updated.

The City is committed to reviewing and updating this plan annex at least once every five years, as required by the Disaster Mitigation Act of 2000. The Fire Department will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, the City again plans to participate in the multi-jurisdictional plan. If ABAG is unwilling or unable to act as the lead agency in the multi-jurisdictional effort, other agencies will be contacted, including the County's Office of Emergency Services. Counties should then work together to identify another regional forum for developing a multi-jurisdictional plan.

The public will continue to be involved whenever the plan is updated and as appropriate during the monitoring and evaluation process. Prior to adoption of updates, the County will provide the opportunity for the public to comment on the updates. A public notice will be posted prior to the meeting to announce the comment period and meeting logistics.

Mitigation Plan Point of Contact

Name: Dave Swan

Title: Fire Captain

Mailing Address: 120 Vista Ave Piedmont. CA 94611

Telephone: 510 420 3030

Email: dswan@ci.piedmont.ca.us

Alternate Point of Contact

Name: Scott Barringer

Title: Fire Captain

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Telephone: 510 420 3030

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Exhibit A - Jurisdiction Boundary Map

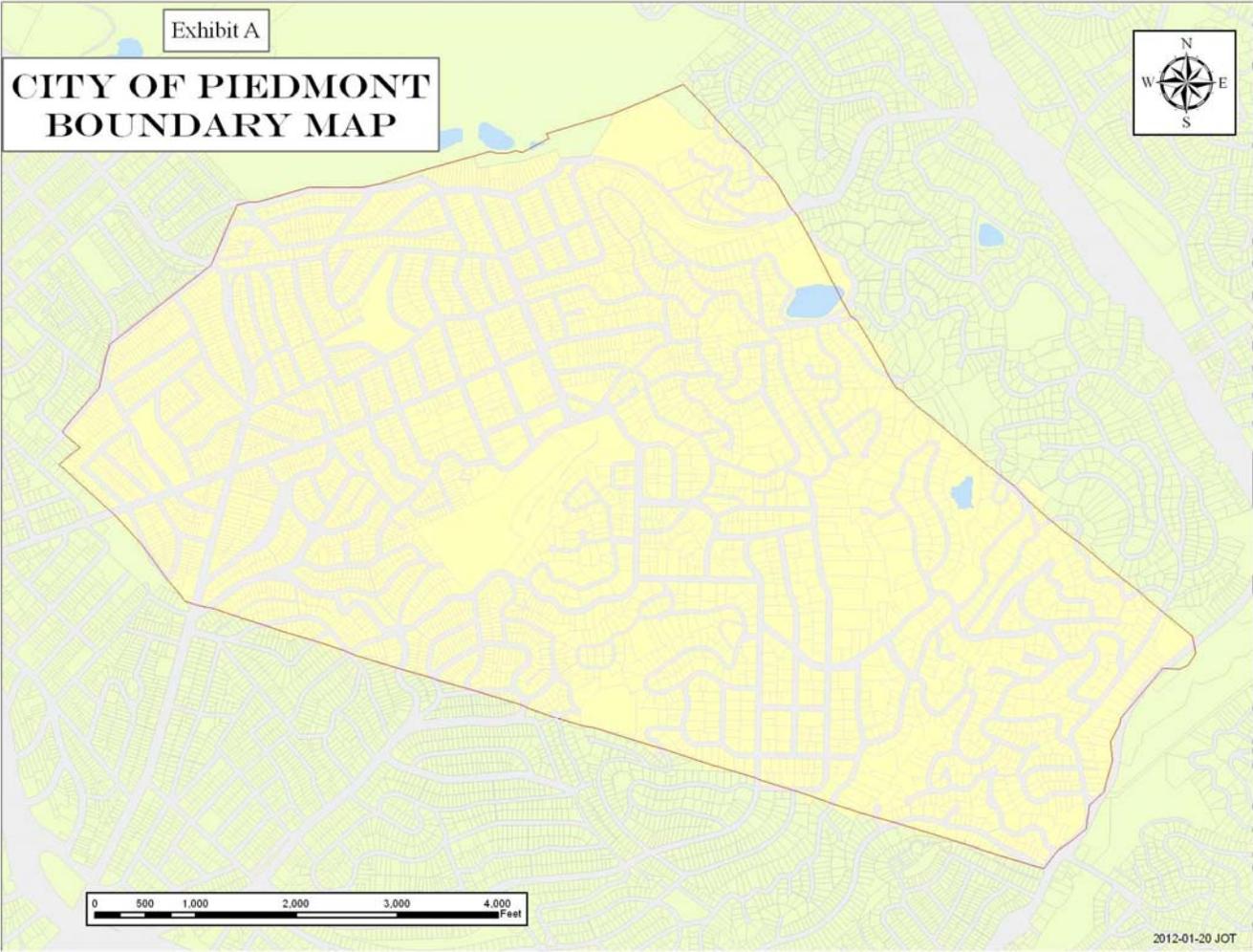


Exhibit B - Public Meeting Announcements

CITY OF PIEDMONT CALIFORNIA



PUBLIC NOTICE

The public is invited to attend a presentation detailing the City of Piedmont's participation in the Association of Bay Area Government's Multi-Jurisdictional Local Hazard Mitigation Plan. This plan identifies hazards associated with fire, flood and earthquake. Participation in planning efforts is part of ensuring the City's ability to receive federal recovery funds in the event of disaster.

The meeting will be held Friday, September 18th, 2011 at 7:00 pm in the Emergency Operations Center, 401 Highland Avenue, Piedmont, California.

For further information contact Captain Dave Swan at (510)420-3029 or Captain Scott Barringer at (510)420-3032.

Exhibit B - Public Meeting Announcements (con't)

City of Piedmont

California



Date: May 1, 2011

To: John Tulloch, City Clerk

From: Captain Dave Swan

**Subject: Notice to be placed on City of Piedmont Website
Please post as soon as possible. Please be sure that
the link to the local hazard mitigation plan is active.
Thank you.**

Piedmont Fire Department seeks public comment on the Local Hazard Mitigation Plan Annex. This document, updated every five years, is submitted to the Federal Emergency Management Agency (FEMA) through the Association of Bay Area Governments (ABAG) to establish the City's eligibility to receive post disaster recovery funding.

The purpose of this document is to identify local hazards to City owned infrastructure and a strategy to mitigate these hazards. Included are threats posed by earthquake, wildfire, inundation and drought.

The annex will remain open for public comment for until May 20th. Once the public comment period closes, the document will be presented to the City Council for approval before submission to FEMA.

For further information or to provide comment, please contact Fire Captain Dave Swan at 420 3030, or via email at dswan@ci.piedmont.ca.us