



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

**City of Lafayette**



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## Introduction

The City of Lafayette is located in central Contra Costa County on the east side of the San Francisco Bay Area. A map of the City is provided in Exhibit A. It is comprised of 14.6 square miles and a population of 24,342 (California Department of Finance, 2010). The adopted budget for 2010-2011 is \$25 million. The City has the equivalent of 37 full-time employees. The City contracts with Contra Costa County Sheriff Department for police services, Contra Costa County for building inspection and permitting, and with a private corporation for public works (maintenance) services. Fire protection services are provided by the Contra Costa County Fire protection District. It owns approximately 99,000 square feet of institutional space, leases approximately 10,000 square feet of office space, and also owns approximately 90 acres of parks and open space and 128 miles of public roads. The City experienced local flooding in late 2005 / early 2006 and a 4.2 magnitude quake in 2007.

## The Regional Planning Process

The City of Lafayette participated in various Association of Bay Area Government (ABAG) workshops, conferences, and meetings, including the ABAG Local Hazard Mitigation Plan Update Workshop for cities and counties on May 8, 2009.

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 Lafayette 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 City departments met to identify and prioritize appropriate mitigation strategies. Personnel involved in these meetings included the City Manager, Community Development Director, Administrative Services Director, Planning & Building Services Manager, Public Works Services Manager, Police Chief, and City Engineer. These representatives are part of the City Manager’s executive team (department and division heads) that meet weekly to discuss issues facing the city, programs, and policies. The responsibilities of each position as they relate to mitigation strategies include:

- City Manager: Chief executive for the City and oversees all organization functions, including those pertaining to hazard mitigation and emergency response.
- Community Development Director: Supervises land use, engineering, and public works functions for the City.
- Administrative Services Director: Manages the financial functions for the City, including the budget for hazard mitigations and emergency preparedness.
- Planning & Building Services Manager: Manages the land use functions for the City, including implementation of the General Plan and Zoning Ordinance, and coordinates building functions with Contra Costa County Building Inspection.



- **Public Works Services Manager:** Manages the maintenance of City facilities, including roads and structures, and post-event recovery.
- **Police Chief:** Manages the emergency preparedness and operations functions for the City, including coordination with other agencies, such as County OES and the Fire District.
- **City Engineer:** Manages all engineering functions of the City, including street improvements and implementation of flood provisions in the Lafayette Municipal Code.

Mitigation strategies were discussed at meetings in June-August 2009. General priorities and appropriate departments were discussed, and identified mitigation strategies were identified, strategies were prioritized, 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 two public City Council meetings on September 14, 2009 and September 28, 2009. The objective for placing the mitigation strategies on City Council agendas was to ensure the widest audience in the community to learn about the actions as well as have the opportunity to provide input. The City’s City Council agenda service has over 500 subscribers. The draft mitigation measures were also published on the City of Lafayette website for public viewing before the meeting and available at the City Offices. Both Council meetings began at 7:00 pm and were held at the Lafayette Community Center, 500 Saint Mary’s Road and advertised on the City of Lafayette website before the meetings.

No public comments were received from the meetings or the internet postings. Copies of the internet postings are included as **Exhibit B** to City of Lafayette’s 2010 Annex.

The 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 Lafayette General Plan.

### ***Process for Updating Plan Sections***

The Plan was updated to reflect any code revisions, amendments, or other actions related to the Plan that the City undertook between the 2005 Annex and the 2010 Annex. It was determined that a major update was not necessary because most of the information was still accurate. The Planning Process section was updated to reflect the process undertaken for the update of this Plan.

Changes in City policies, including code revisions and amendments, are actions taken by the City Council. The Council’s highest priority is community involvement in City actions. It is, therefore, the responsibility of City staff to ensure this priority is met through a variety of methods, such as a hard copy and email subscription service for Council agendas and posting of agendas and staff reports at City Offices and on the City website. Written correspondence





is forwarded to all Council members, and verbal comments are welcome at all Council meetings.

### *Review and Incorporation of Existing Information*

In the preparation of this Annex, the City reviewed the studies and information used in the development of the umbrella plan. In addition to these documents, the Safety Element of the Lafayette General Plan and the Final Environmental Impact Report for the Downtown Lafayette Specific Plan were incorporated into the Hazard Assessment of this Annex.

## **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 Lafayette has reviewed the hazards identified and ranked the hazards based on past disasters and expected future impacts. The conclusion is that earthquakes (particularly shaking), flooding (including dam failure), wildfire, and landslides (including unstable earth) pose a significant risk for potential loss.

- Earthquakes are the highest ranked hazard because Lafayette is in proximity to a number of major earthquake faults: San Andreas; Hayward; Franklin; Calaveras; and Concord. The closest to Lafayette are: Calaveras (3.5 miles from the downtown); Concord (5 miles from the downtown); and Hayward (6 miles from the downtown). In 2007, a notable 4.2 magnitude earthquake originated from a point one miles northeast of Lafayette.
- Flooding is the next highest ranked hazard because of the Lafayette Reservoir, a water storage facility that is part of the East Bay Municipal Utility District. The Reservoir has an earthen dam, and if it were to fail, a large portion of the downtown would be affected. Lafayette also has a number of creeks, some of which have a history of localized flooding.
- Wildfires pose a significant hazard since a large portion of the city is hillsides with native oak woodlands and grasslands. CALFIRE has classified most of the hillside areas as "very high" and "high" risk.
- Because of this hillside topography, landslides are the fourth highest ranked hazard. Property owners in the hillside areas periodically report localized landslides during heavy rains.



The City of Lafayette does not face any natural disasters not listed in the ABAG multi-jurisdictional plan and no new hazards have been identified by the City of Lafayette since the original development of this plan in 2005.

While City of Lafayette has undertaken a number of general hazard mapping activities since the first Safety Element was prepared by the City of Lafayette, 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 Disasters (Natural and Human-Induced)**

The City of Lafayette has felt the effects of two major regional disasters and smaller local disasters over the last 20 years, including earthquakes, floods, wildfires, landslides, and severe storms. One of the major regional disasters was the Oakland Hills Firestorm of 1991, located to the west of the City of Lafayette. It ranks as one of the worst wildland-urban firestorm disasters to ever strike the United States with 25 deaths, 150 injuries, and the displacement of over 10,000 persons. With destruction and damage to over 3,400 residential units, losses were in excess of \$1.5 billion.

The other regional disaster was the Loma Prieta Earthquake of 1989; it is another example of the kind of large-scale disaster that can strike the Bay Area. It killed 63 persons, injured 3,757, and displaced over 12,000 persons. With over 20,000 homes and businesses damaged and over 1,100 destroyed, this quake caused approximately \$6 billion of damage, \$25 million of which was in Contra Costa County. 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 that affected the City of Lafayette can be found at <http://quake.abag.ca.gov/wp-content/documents/ThePlan-D-2010.pdf>. Of the disasters that are included in Appendix D at the above website, the following are examples that affected Lafayette directly:

- Local flooding in December 1996 to January 1997
- The Napa Earthquake on September 3, 2000
- Local Flooding and landslides during the winter storms on December 17, 2005 to January 12, 2006. This event included flooding and slides on multiple arterials and local roads.

## **Risk Assessment**

### ***Urban Land Exposure***

The City of Lafayette examined the hazard exposure of the City of Lafayette 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").



The City of Lafayette reduced the acres of urban land in the 100 year flood zone over the last five years due to changes in the new FEMA flood maps. The following table describes the exposure of urban land within the City of Lafayette to the various hazards.



Exposure (acres of urban land)			
Hazard	Plan Year 2005	Plan Year 2010	Change
<i>Total Acres of Urban Land</i>	8,450	8,323	(127)
Earthquake Faulting (within CGS zone)	0	0	0
Earthquake Shaking (within highest two shaking categories)	1,591	1,574	(17)
Earthquake-Induced Landslides (within CGS study zone) <sup>1</sup>	-	-	-
Liquefaction (within moderate, high, or very high liquefaction susceptibility)	1,621	1,922	301
Flooding (within 100 year floodplain)	148	153	5
Flooding (within 500 year floodplain)	93	142	49
Landslides (within areas of existing landslides)	6,230	6,069	(161)
Wildfire (subject to high, very high, or extreme wildfire threat) <sup>2</sup>	1,883	1,685	(198)
Wildland-Urban Interface Fire Threat	7,551	7,399	(152)
Dam Inundation (within inundation zone)	578	559	(19)
Sea Level Rise <sup>3</sup>	not applicable		
Tsunamis <sup>4</sup> (within inundation area)	not applicable		
Drought <sup>5</sup>	8,450	8,323	(127)

<sup>1</sup> 8,323 acres of urban land have not been evaluated by CGS for this hazard in the City of Lafayette

<sup>2</sup> The decrease is due to better and more accurate mapping.

<sup>3</sup> The sea level rise map is not a hazard map. It is not appropriate to assess infrastructure exposure to sea level rise.

<sup>4</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Acres of exposed land are not an appropriate analysis for this hazard. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>5</sup> The entire City of Lafayette is subject to drought.

### **Infrastructure Exposure**

The City of Lafayette 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 168 miles of roadway in the City of Lafayette, there are 128 miles of local roads and 40 miles of highways, off-Ramps, and on-ramps and 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>	155	168	6	4	0	0
Earthquake Shaking (within highest two shaking categories)	39	40	1	1	0	0
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	43	59	1	2	0	0
Liquefaction Hazard (within CGS study zone) <sup>1</sup>	-	-	-	-	-	-
Earthquake-Induced Landslides (within CGS study zone) <sup>2</sup>	-	-	-	-	-	-
Earthquake Faulting (within CGS zone)	0	0	0	0	0	0
Flooding (within 100 year floodplain)	4	1	0	0	0	0
Flooding (within 500 year floodplain)	3	7	0	0	0	0
Landslides (within areas of existing landslides)	95	105	4	3	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	18	17	0	0	0	0
Wildland-Urban Interface Fire Threat	152	163	6	4	0	0
Dam Inundation (within inundation zone)	13	14	0	0	0	0
Sea Level Rise <sup>3</sup>	not applicable					
Tsunamis <sup>4</sup>	not applicable					
Drought <sup>5</sup>	not applicable					

<sup>1</sup> 168 miles of public roads, 4 miles of transit, and 0 miles of rail have not been evaluated by CGS for this hazard in the City of Lafayette

<sup>2</sup> 168 miles of public roads, 4 miles of transit, and 0 miles of rail have not been evaluated by CGS for this hazard in the City of Lafayette

<sup>3</sup> The sea level rise map is not a hazard map. It is not appropriate to assess infrastructure exposure to sea level rise.

<sup>4</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. Miles of exposed infrastructure is not an appropriate analysis for this hazard. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>5</sup> Drought is not a hazard for roadways.

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

Finally, the City of Lafayette examined the hazard exposure of critical health care facilities and schools located within the City of Lafayette and City-owned buildings based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/pickcrit2010.html>. The City of Lafayette 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>	2	2	9	15	14	75	46	47
Earthquake Shaking (within highest two shaking categories)	1	1	5	7	5	14	15	21
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	1	2	5	8	9	28	17	37
Liquefaction Hazard (within CGS study zone) <sup>1</sup>	-	-	-	-	-	-	-	-
Earthquake-Induced Landslides (within CGS zone) <sup>2</sup>	-	-	-	-	-	-	-	-
Earthquake Faulting (within CGS zone)	0	0	0	0	0	0	0	0
Flooding (within 100 year floodplain)	0	0	0	0	0	4	1	2
Flooding (within 500 year floodplain)	0	0	0	0	0	3	4	0
Landslides (within areas of existing landslides)	1	1	3	4	4	45	17	15
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0	0	0	0	10	0	5
Wildland-Urban Interface Fire Threat	2	2	8	14	14	67	46	46
Dam Inundation	2	2	2	7	2	19	8	12
Sea Level Rise (exposed to 16in sea level rise) <sup>3</sup>	-	0	-	0	-	0	-	0
Sea Level Rise (exposed to 55in sea level rise) <sup>4</sup>	-	0	-	0	-	0	-	0
Tsunamis <sup>5</sup> (within inundation area)	-	0	-	0	-	0	-	0
Drought <sup>6</sup>	-	-	-	-	-	-	-	-

<sup>1</sup> Critical facilities have not been evaluated by CGS for this hazard in the City of Lafayette

<sup>2</sup> Critical facilities have not been evaluated by CGS for this hazard in the City of Lafayette

<sup>3</sup> Sea level rise data was not available in 2005

<sup>4</sup> Sea level rise data was not available in 2005

<sup>5</sup> Tsunami evacuation planning maps were not available inside the San Francisco Bay in 2005. This map became available in December 2009. It should be noted that this map is not a hazard map and should be used for evacuation planning purposes only. The inundation line represents the highest inundation at any particular location from a suite of tsunami sources. It is not representative of any single tsunami.

<sup>6</sup> Drought will not affect locally owned facilities directly.



### ***Repetitive Loss Properties***

There are two repetitive loss properties in the City of Lafayette based on the information at <http://quake.abag.ca.gov/mitigation/pickflood.html>. In 2004 the City of Lafayette had one repetitive loss property that was outside the flood plain. There has been no change in the number of repetitive loss properties since 2004. It is unknown whether the two properties are residential, commercial, institutional, etc.

### ***Other risks***

The City of Lafayette does not have any risks or vulnerabilities that differ from the rest of the nine-county Bay Area.

The City of Lafayette plans to continue to work with ABAG to improve the risk assessment information being compiled by ABAG, including developing ways to assess how many soft-story buildings are located in the unincorporated areas of the City of Lafayette.

The City of Lafayette plans to work with ABAG to develop specific information about the kind and level of damage to buildings, infrastructure, and critical facilities which might result from any of the hazards previously noted.

### **National Flood Insurance Program**

The City of Lafayette has participated in the National Flood Insurance Program since 1980. The City of Lafayette does not participate in the Community Rating System. Flood protection requirements, based on NFIP, have been included in the Lafayette Municipal Code as Chapter 6-18 since 1981. This ordinance is based on NFIP. The City also includes a program in its adopted General Plan requiring participation in NFIP.

### **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 is unchanged from the 2005 plan and continues to be the goal of City of Lafayette in designing its mitigation program.

Additionally, the City of Lafayette has the following goals and policies in its adopted General Plan's Safety Element:



**Goal S-1.** Minimize risks to Lafayette residents and property from landslides and other geologic hazards.

- *Policy S-1.1. Slope and Soil Stability.* Consider slope and soil stability when reviewing future projects. Development proposals in areas with landslide hazards shall be reviewed by an engineering geologist to determine whether the proposed development is feasible, and to define the required construction standards and mitigation measures.
- *Policy S-1.2. Density and Location of Buildings.* Limit building in areas with significant risk potential. Intensity of development shall be minimal in areas of high risk. Consider potential seismic or geologic hazards when determining building density and in siting dwellings.
- *Policy S-1.3. Roadways and Roadway Improvements.* Prohibit new roadways or roadway modifications that would create unstable geological conditions. (An example would be cuts and fills in areas with unstable soils.)
- *Policy S-1.4. Creekbank Protection.* Prohibit structures of any kind that might be impacted by creekbank slippage and erosion.

**Goal S-2.** Minimize risks to Lafayette residents and property from earthquakes.

- *Policy S-2.1. Seismic Hazards.* New development, including subdivisions, new construction, and remodels or expansions of existing structures, shall minimize exposure to seismic hazards through site planning and building design.
- *Policy S-2.2. Areas of Significant Risk Potential.* Locate construction of high density residential and other critical, high-occupancy or essential services buildings outside high risk zones.

**Goal S-3.** Reduce flood hazards.

- *Policy S-3.1. Reduce Flood Hazards.* Reduce flood risk by maintaining effective flood drainage systems and regulating construction.
- *Policy S-3.2. Flood Protection Standard.* In the review of flood control for proposed new development, establish as a standard the flood recurrence intervals used by the Contra Costa County Flood Control District (e.g. the 100-year flood event).  
*Program S-3.2.2.* Participate in the National Flood Insurance program.
- *Policy S-3.3. Storm Drainage System.* Maintain unobstructed water flow in the storm drainage system.
- *Policy S-3.4. Finance the Storm Drain System.* Explore all available sources of funding to ensure that adequate funding exists to finance improvements to storm drainage facilities.
- *Policy S-3.5. Building Location.* Consider potential flood hazards when siting a building. Intensity of development shall be the lowest in areas of high risk.

**Goal S-4.** Minimize risks to Lafayette residents and property from fire hazards.

- *Policy S-4.1. Adequate Fire Protection.* Enforce regulations and standards which contribute to adequate fire protection.





- *Policy S-4.2. Reducing Fire Risk from Development.* Take measures to reduce fire risks from new and existing development as well as natural fire hazards.
- *Policy S-4.3. Development and Mitigation Fees.* Maintain development and mitigation fees at a level to adequately finance fire protection costs.
- *Policy S-4.4. Mutual Aid Agreements.* Participate in mutual aid agreements with the County and State fire-fighting agencies.
- *Policy S-4.5. Vegetation Management Plan.* Require development in a high fire risk area to have an approved vegetation management plan that includes native, drought-tolerant, and fire resistant species.

## Mitigation Activities and Priorities

### *Evaluation of Progress from 2005 Plan*

In 2005, mitigation strategies and priorities were identified. The following provides a current status of those strategies within the City's jurisdiction. Note that the City contracts the police and building services through Contra Costa County and fire services are provided by a separate district.

#### Infrastructure

Most of the infrastructure strategies within the City's jurisdiction are continuing to be implemented through ongoing City programs and compliance with the adopted Lafayette General Plan and Lafayette Municipal Code. These include the following strategies: a-4, a-7, a-12, b-8, b-9, c-1, c-3 through c-8, d-1, d-2, d-5 through d-9, d-13, d-17, e-2, and g-5.

Two mitigation strategies were implemented through specific actions by the City. Strategy a-5 was implemented through the City's support of BART's seismic improvement project through Lafayette. Strategy a-8 was implemented through the establishment of the City's Emergency Operations Center at the new Lafayette Library and Learning Center (completed in 2009). The EOC is supported by an emergency generator installed under the Library.

#### Health

All of the health mitigation strategies within the City's jurisdiction are continuing to be implemented through the City's ongoing participation in Contra Costa County's OES program. These include the following strategies: c-2, c-3, d-2, and d-3.

#### Housing

All of the housing mitigation strategies within the City's jurisdiction are continuing to be implemented through ongoing City programs, such as development review, and compliance



with the adopted Lafayette General Plan and Lafayette Municipal Code. These include the following strategies: g-1, g-3, g-5, h-2 through h-6, i-1, i-2, k-2, and k-13.

Other housing strategies were identified as not having the resources for implementation. The lack of resources still applies. These include the following strategies: a-1, c-3 through c-7, e-4, g-2, g-4, g-9, g-11, h-1, and h-8 through h-10.

### Economy

Economy mitigation strategies within the City's jurisdiction are continuing to be implemented through ongoing City programs and compliance with the adopted Lafayette General Plan and Lafayette Municipal Code. These include the following strategies: e-1, e-11, f-2 through f-6, g-1, g-2, j-2, and j-7.

Other economy strategies were identified as not having the resources for implementation. The lack of resources still applies. These include the following strategies: a-1, a-3 through a-7, d-3, e-6, f-1, f-7 through f-9, j-1, j-3, j-6, j-8, and j-9.

### Government

Government mitigation strategies within the City's jurisdiction are continuing to be implemented through ongoing City programs, such as its emergency preparedness program, and the City's development review process. These include the following strategies: a-5, b-1 through b-7, b-9 through b-13, b-16, b-23, c-1 through c-5, c-8, and c-9.

Two mitigation measures were implemented through specific action by the City. Strategies a-10 and a-11 were implemented through the design and construction of the new Lafayette Library and Learning Center. It meets the latest and most rigorous regulations.

Other government strategies were identified as not having the resources for implementation. The lack of resources still applies. These include the following strategies: a-3, a-4, a-7, a-9, b-8, b-17, b-18, and b-20.

### Education

There were no education strategies in the City's jurisdiction.

### Environment

Environment mitigation strategies within the City's jurisdiction are continuing to be implemented through ongoing City programs and processes, such as development review, and compliance with the adopted Lafayette General Plan and Lafayette Municipal Code. These include the following strategies: a-1 through a-5, a-8, a-9, and a-12 through a-14.



Land Use

Almost all of the land use mitigation strategies are within the City’s jurisdiction and are continuing to be implemented through the City’s development review process. Strategies a-1, e-1, e-2, f-1, and f-5 remain not applicable.

***Future Mitigation Actions and Priorities***

The following table identifies four mitigation projects that the City hopes to accomplish within the next five years.

#	Mitigation Project	2010 MJ-LHMP Strategy #	Hazard Mitigated	Implementation	Estimated Cost	Anticipated Funding Source	Anticipated Schedule
1	Encourage owners of properties in floodplain to consider purchasing flood insurance	HSNG h-10	Flooding	Include such a program in the next update of the City’s Housing Element.	\$100,000 (entire element)	City	2012-2013
2	Provide public information regarding hazard mitigation	HSNG k-1, k-3, k-5, k-10	Earthquake, Landslide, Wildfire, Flooding	Provide public information on the City’s updated website about hazard mitigation to residents and businesses, including availability of ABAG resources, mitigation activities, and mitigating gas leaks.	\$50,000 (website update)	City	2011
3	Create incentives for historic buildings to undertake mitigation	ECON a-2	Earthquake	Propose that the Downtown Specific Plan include incentives for the historic structures in the downtown to meet federal guidelines for rehabilitation	Unknown	City	2011-2012
4	Prepare emissions inventory	ENVI b-2	Landslides, Wildfire, Flooding	Prepare emissions inventory and include as part of a climate action plan	Unknown	City, ABAG, ICLEI	2011



## ***On-Going Mitigation Strategy Programs***

The City of Lafayette has many on-going mitigation programs that help create a more disaster-resistant region. The following list highlights those programs identified as *Existing Programs* in the mitigation strategy spreadsheet. Others are on-going programs that are currently underfunded. It is the City's priority to find additional funding to sustain these on-going programs over time.

- Vulnerability assessments of County facilities and infrastructure (GOVT-a-1)
- Non-structural mitigation for building contents (GOVT-a-4)
- Installation of micro and/or surveillance cameras at critical public assets tied to web-based software (GOVT-a-6)
- Coordination with the State Division of Safety of Dams to ensure that cities and counties are aware of the timeline for the maintenance and inspection of dams whose failure would impact their jurisdiction (GOVT-a-8)
- Development of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies (GOVT-c-7)
- Maintain and update Contra Costa County's Standardized Emergency Management System Plan (GOVT-c-12)
- Participation in general mutual-aid agreements and agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters (GOVT-c-13)
- Participation in FEMA's National Flood Insurance Program (GOVT-d-5)
- Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging employees of these critical health care facilities to have family disaster plans and conduct mitigation activities in their own homes (HEAL-a-7)
- Sponsor the formation and training of Community Emergency Response Teams (CERT) through partnerships with local businesses (GOVT-c-3, ECON-j-5, HSNG-k-6)
- Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards (LAND-c-2)
- Increase efforts to reduce landslides and erosion in existing and future development through continuing education of design professionals on mitigation strategies (HSNG-i-2, ECON-g-2)
- Conduct an inventory of existing or suspected soft-story residential, commercial and industrial structures (HSNG-c-4, ECON-b-4)
- Continue to repair and make structural improvements to storm drains, pipelines, and/or channels to enable them to perform to their design capacity in handling water flows as part of regular maintenance activities (INFR-d-6, INFR-d-7)



## **Incorporation into Existing Planning Mechanisms**

The City of Lafayette has several planning mechanisms, including the following:

- General Plan Safety Element
- Capital Improvements Plan

The City of Lafayette has a Safety Element in its General Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. This plan was adopted as an implementation appendix to the Safety Element. In addition, the City of Lafayette enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The City of Lafayette has used these pre-existing programs as a basis for identifying gaps that may lead to disaster vulnerabilities in order to work on ways to address these risks through mitigation.

## **Plan Update Process**

As required Disaster Mitigation Act of 2000, the City of Lafayette 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 Planning & Building Services Division 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 management staff at least once a year in April. At that meeting, managers will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The managers will be responsible for determining if the plan should be updated.

The City of Lafayette 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 Planning & Building Services Division will contact ABAG four years after this plan is approved to ensure that ABAG plans to undertake the plan update process. If so, the County 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 Contra Costa County's Office of Emergency Services. Cities and 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 City 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: Ann Merideth

Title: Special Projects Manager (*as of Jan 2011*)

Mailing Address: 3675 Mount Diablo Boulevard, Suite 120, Lafayette, CA 94549

Telephone: 925-284-1968

Email: amerideth@ci.lafayette.ca.us

### ***Alternate Point of Contact***

Name: Niroop Srivatsa

Title: Planning & Building Services Manager

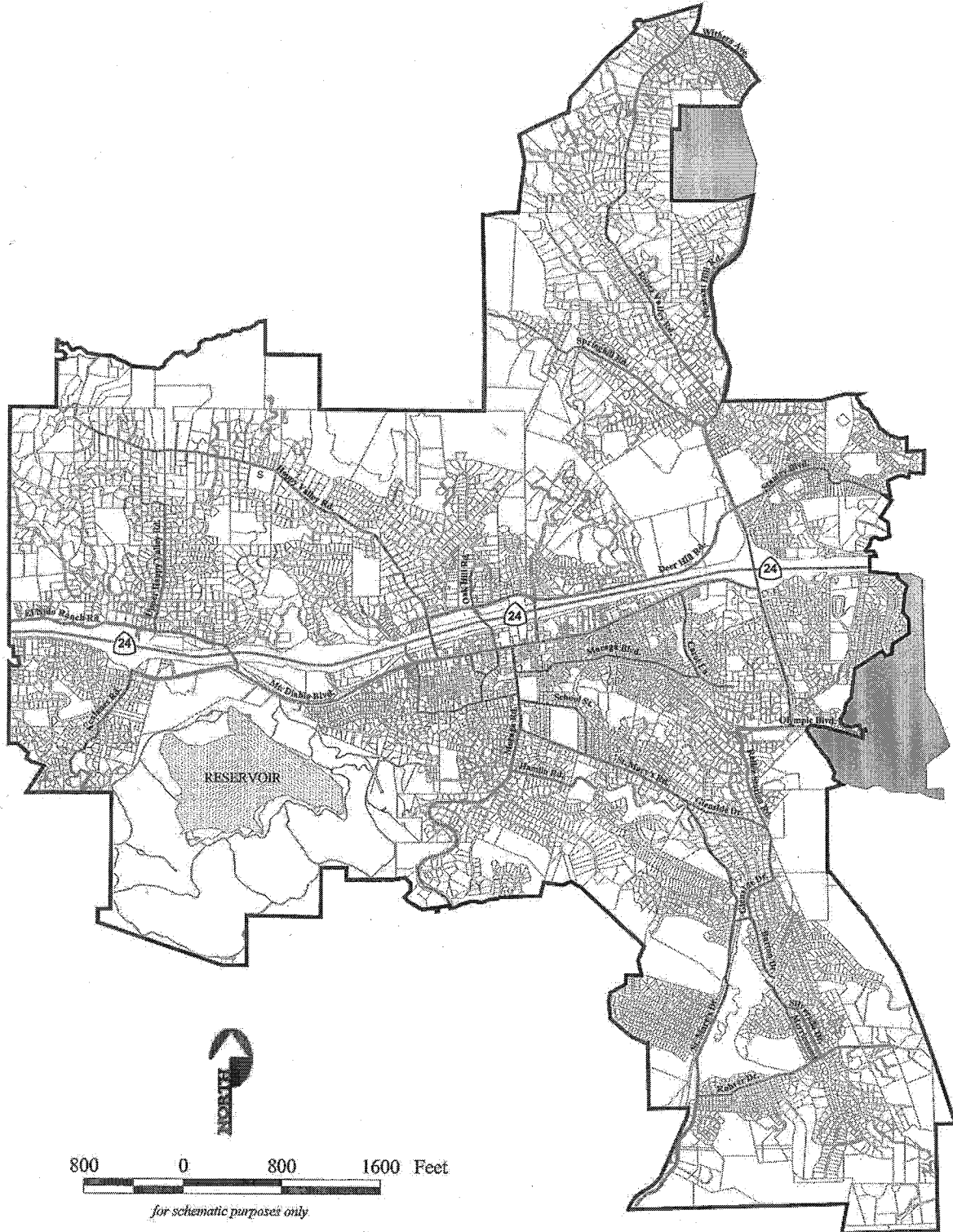
Mailing Address: 3675 Mount Diablo Boulevard, Suite 120, Lafayette, CA 94549

Telephone: 925-284-1968

Email: nsrivatsa@ci.lafayette.ca.us



## Exhibit A - Jurisdiction Boundary Map







## Exhibit B - Public Meeting Announcements

City of Lafayette  
Public Meeting Action Agenda  
Lafayette City Council  
Planning Commission  
Design Review Commission  
Redevelopment Agency

Monday, September 14, 2009 7:00 PM  
Lafayette Community Center – Manzanita Room  
500 St. Mary's Road, Lafayette, California

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- 1) CALL TO ORDER            7:03 pm
- 2) ROLL CALL  
*Mayor Tatzin, Councilmembers Anderson, Anduri and Federighi*  
*Absent: Vice Mayor Andersson*

*Steven Falk, City Manager; Ann Merideth, Community Development Director; Niroop Srivatsa, Planning & Building Services Manager; Christine Sinnette, Senior Planner; Mark Robbins, Code Enforcement Officer; Mala Subramanian, City Attorney; Joanne Robbins, City Clerk*

- 3) PLEDGE OF ALLEGIANCE
- 4) ADOPTION OF AGENDA
- 5) REPORT FROM CLOSED SESSION
- 6) PUBLIC COMMENTS
- 7) PRESENTATIONS

*Convene Joint Session Design Review and Planning Commission*

*Design Review Commissioners Andre Ptaszynski, Robert Cleaver; William Marquand*  
*Absent: Tom Lee, Ken Hertel*  
*Planning Commissioners Will Lovitt, Tom Chastain, Rick Humann, Karen Maggio, Mark Mitchell*  
*Absent: Jeanne Ateljevich, Patricia Curtin-Tinley*

- 8) OLD BUSINESS
  - A. Lafayette Town Center Phase III: Study session of an 82-unit residential condominium project submitted by Lafayette Residential Partners and KB Homes, Inc. on a 1.47 acre vacant parcel located behind 3590-3608 Mt. Diablo Blvd., APN 243-040-035  
*Action: Provided direction to the applicant. No formal action was taken by the City Council or Commissions.*

*Adjourn Joint Session*

*Vice Mayor Andersson arrived*

- B. Michael Cass, Assistant Planner  
Lafayette Chamber of Commerce (applicant), City-Wide Application: Request to Amend the 2009 Lafayette Stimulus Package Relating to Existing Small Businesses, Hours of Operation, and Parking Requirements  
*Action: Adopted Resolution 2009-48. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri*

*and Federighi; Noes: None)*

9) STAFF REPORTS

10) PUBLIC HEARING

A. Christine Sinnette, Senior Planner

Consideration of proposed amendments to the Lafayette Municipal Code consisting of (1) Ordinance 586 amending Chapter 6-23, Outdoor Storage and Repairs, (2) Ordinance 589 amending Chapter 1-3, Penalty Provisions, (3) Ordinance 590 amending Chapter 1-9, Administrative Citations, and (4) Ordinance 591 amending Chapter 8-21, Code Enforcement

**Action: Conducted first reading and public hearing and continue as amended to September 28, 2009 for second reading and adoption. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

11) CONSENT CALENDAR

A. City Council Minutes

1. August 10, 2009

**Action: Approved. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

2. September 1, 2009

**Action: Approved. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

B. E-mail from Gabriel Froymovich resigning from the Crime Prevention Commission

**Action: Accepted resignation and schedule recognition. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

C. Happy Valley Road Pedestrian Path Reconstruction Project Phase II, Project Number 014-9667, Final Acceptance of Construction Contract

**Action: Accepted the construction contract with Ameca General Engineering as complete and authorize staff to file a Notice of Completion for the Happy Valley Road Pedestrian Path – Phase II, Project Number 014-9667. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

D. Resolution 2009-49 Establishing Rate of Tax Levy to Provide Payment of Interest and Principal on Series 2002 General Obligation Bonds Series and Series 2004 General Obligation Bonds During FY 2009-2010

**Action: Adopted Resolution 2009-49. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

E. Stanley Boulevard/Springbrook Road Sidewalk Project Number 014-9672, Final Acceptance of Construction Contract

**Action: Accepted construction contract with North Bay Construction as complete and authorize staff to file a Notice of Completion for the Stanley Boulevard/Springbrook Road Sidewalk Project Number 014-9672. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)**

F. Letter dated August 24, 2009 from Dr. Susan Hahn resigning from the Senior Services Commission, Senior Housing Task Force and as Lafayette's representative on the Contra Costa County Advisory Council on Aging.

**Action: Accepted with regret and schedule recognition. Vote: 5-0 (Ayes: Tatzin, Andersson,**

*Anderson, Anduri and Federighi; Noes: None)*

- G. Parks, Trails & Recreation Commission Supports 50/50 Split of Measure WW Funds with the Open Space Committee  
***Action:*** *Received and filed. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- H. Award of Contract; PWS 09-05; Fence Extension, Public Works Services Facility, 3001 Camino Diablo  
***Action:*** *Awarded the Contract for PWS 09-05 to Pacific General Engineering. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- I. Letter to the California Supreme Court regarding the ability of cities to seek judicial review of regional council of government decisions in support of the City of Irvine's Petition for Review of the opinion issued by the Fourth District Court of Appeal, Division Three, in City of Irvine v. Southern California Association of Governments Supreme Court Case No. S175329  
***Action:*** *Authorized Mayor to execute the letter. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- J. Mount Diablo Multi-Purpose Pathway, Project No. 014-9676 Accept Project as Complete  
***Action:*** *Allocated \$17,200 from Fund 014 Walkways Fee balance. Accept all work performed by HSR, Inc. for the Mount Diablo Multi-Purpose Pathway, Project No. 014-9676 as complete and authorized the final payment to be made including release of retention, pending approval of the City Attorney, in accordance with the City Attorney's recommendations concerning the Stop Notice claims. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- K. 16 Hidden Valley Road – Request for Retaining Wall Encroachment into the City Right-of-Way  
***Action:*** *Approved encroachment into the City Right-of-Way along the property at 16 Hidden Valley Road and authorized the City Manager to execute an encroachment agreement with applicant. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- L. 3166 Stanley Boulevard – Request for an encroachment permit to replace failing wood retaining wall within the public right-of-way with a stone retaining wall  
***Action:*** *Approved encroachment into the City Right-of-Way along the property at 3166 Stanley Boulevard and authorized the City Manager to execute an encroachment agreement with the applicant. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- M. Update on the Multi-Jurisdictional Local Mitigation Hazard Plan  
***Action:*** *Received report and continued to September 28, 2009. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*

*Convene Redevelopment Agency*

- N. Update on Library Public Art Program  
***Action:*** *Received and filed. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*

*Adjourn Redevelopment Agency*

12) COUNCIL/COMMISSION REPORTS

- A. Councilmember report on activities and consideration of matters a councilmember wishes to initiate for placement on a future agenda.
- B. Councilmember Federighi  
2009 Annual Conference Resolutions for Consideration at the League's Annual Business Meeting - Resolution Relating to Social Host Liability and Resolution Urging City Governments and Others to Divest from Banks That Fail to Cooperate With Foreclosure Prevention Efforts  
***Action:*** *Gave direction to Lafayette's voting delegate Councilmember Federighi. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- C. Art & Wine Booth Sign-Ups  
***Action:*** *Scheduled booth hours for the Art & Wine Festival. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- D. Emergency Preparedness Commission requests council adopt a proclamation recognizing September as National Preparedness Month  
***Action:*** *Approved proclamation recognizing September as National Preparedness Month. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- E. Senior Services Commission recommends council adopt a proclamation recognizing September 21-27 as "Fall Prevention Awareness Week"  
***Action:*** *Approved proclamation recognizing September 21-27 as "Fall Prevention Awareness Week. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*

13) WRITTEN COMMUNICATIONS

- A. Letter dated August 23, 2009 from Garrie E. Scott, Regent with the Mt. Diablo Chapter of the Daughters of the American Revolution, requesting a proclamation recognizing September 17 to September 23 as a week to commemorate our Constitution.  
***Action:*** *Approved proclamation recognizing September 17 to September 23 as a week to commemorate our Constitution. Vote: 3-2 (Ayes: Tatzin, Federighi and Anduri; Noes Andersson and Anderson)*
- B. E-mail received August 27, 2009 from Lori McDonald, Contra Costa County CAER Group, Inc., requesting a proclamation recognizing November 4, 2009 as Shelter in Place Education Day.  
***Action:*** *Approved proclamation recognizing November 4, 2009 as Shelter in Place Education Day. Vote: 5-0 (Ayes: Tatzin, Andersson, Anderson, Anduri and Federighi; Noes: None)*
- C. E-mail from John Coleman, EBMUD Board of Directors, Ward 2 requesting council send a letter to EBMUD asking the Board to consider all options, and to not limit future choices to meet the demand for water in the years to come.  
***Action:*** *Approved sending letter to EBMUD asking the Board to consider all options, and to not limit future choices to meet the demand for water in the years to come. Vote: 4-0-1 (Ayes: Tatzin, Anderson, Anduri and Federighi; Noes: None; Absent: Andersson)*

14) ADJOURNMENT 11:35 pm in memory of Brad Kisner.

I, Joanne Robbins, declare under penalty of perjury that this agenda has been posted at least 72 hours in advance at the Lafayette City Offices, 3675 Mt. Diablo Blvd., Suite 210, Lafayette, CA.

\* Any writings or documents pertaining to an **open session** item provided to a majority of the City Council less than 72 hours prior to the meeting, shall be made available for public inspection at the front counter at City Hall located at 3675 Mt. Diablo Blvd., Suite 210, Lafayette, CA. during normal business hours.

City of Lafayette  
Public Meeting Action Agenda  
Lafayette City Council  
Redevelopment Agency

Monday, September 28, 2009 7:00 PM  
Lafayette Community Center – Manzanita Room  
500 St. Mary's Road, Lafayette, California

---

1) CALL TO ORDER 7:00 pm

2) ROLL CALL

*Mayor Tatzin, Vice Mayor Andersson, Councilmembers Federighi  
Absent: Councilmembers Anderson and Anduri*

*Steven Falk, City Manager; Tracy Robinson, Administrative Services Director; Ann Merideth,  
Community Development Director; Niroop Srivatsa, Planning & Building Services Manager;  
Tony Coe, Engineering Services Manager; Mala Subramanian, City Attorney; Joanne Robbins,  
City Clerk*

3) PLEDGE OF ALLEGIANCE

4) ADOPTION OF AGENDA

5) PUBLIC COMMENTS

6) PRESENTATIONS

7) OLD BUSINESS

8) STAFF REPORTS

A. Don Tatzin, Mayor

Lafayette Library & Learning Center – Rental Policy

***Action:*** *Approved the Lafayette Library & Learning Center Rental Policy and directed staff  
to prepare an ordinance prohibiting smoking on city owned property. Vote: 3-0-2 (Ayes:  
Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

B. Tony Coe, Engineering Services Manager

Lafayette Library & Learning Center – 1) Operation and Management Services, 2) Alarm  
Monitoring Services

***Action:*** *1. City Council approved Building Operation, Maintenance, and Management  
Contract with CH2M Hill. 2. City Council approved Fire and Security Alarm Monitoring  
and Service Contract with Siemens Building Technologies, Inc. Vote: 3-0-2 (Ayes: Tatzin,  
Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

C. Steven Falk, City Manager

Lafayette Library & Learning Center – Update on the selection of the operator for the Library  
Café

***Action:*** *Continued to October 13, 2009. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi;  
Noes: None; Absent: Anderson and Anduri)*

D. Mary Bruns, Senior Transportation Coordinator

The Senior Transportation Program Advisory Committee requests recognition as a formal  
Lafayette Committee

***Action:*** *Received and filed.*

- E. Nirop Srivatsa, Planning & Building Services Manager  
Appeal of City staff 's decision to allow the Central Contra Costa Sanitary District's contractor to stage at 3360 Deer Hill Road and Pleasant Hill Road  
**Action:** *Directed staff to draft a policy for council consideration regarding staging on vacant lots for public works contractors working in the City and provide an update at the October 13, 2009 meeting. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

9) PUBLIC HEARING

10) CONSENT CALENDAR

- A. City Council Minutes  
September 14, 2009

**Action:** *Approved as amended. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

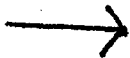
- B. Consideration of proposed amendments to the Lafayette Municipal Code consisting of (1) Ordinance 586 amending Chapter 6-23, Outdoor Storage and Repairs (ZT04-09), (2) Ordinance No. 589 amending Chapter 1-3, Penalty Provisions, (3) Ordinance 590 amending Chapter 1-9, Administrative Citations, and (4) Ordinance 591 amending Chapter 8-21, Code Enforcement  
**Action:** *Waived second reading and adopted ordinances 586 (ZT04-09), 589, 590, and 591. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

- C. Highway Safety Improvement Program Grant Application

**Action:** *Authorized the mayor to work with staff to determine if one or two grant applications would be submitted for Caltrans' Highway Safety Improvement Program (HSIP) funds. Projects under consideration 1) St. Mary's Road at Topper Lane Intersection Modification and 2) Springhill Road near Springhill School In-Pavement Flashing Lights at Crosswalk. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

- D. Request for a Letter to Caltrans Regarding Pleasant Hill Road

**Action:** *Authorized staff to submit draft letter to Caltrans regarding Pleasant Hill Road between Mt. Diablo Blvd. and Deer Hill Road/Stanley Blvd. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*



- E. Lafayette's updated Hazard Mitigation Strategies (2009) for the Multi-Jurisdictional Hazard Mitigation Plan

**Action:** *Approved Lafayette's updated Hazard Mitigation Strategies (2009), and directed staff to forward to ABAG. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

- F. 4103 Hidden Valley Road – Request for Creek Setback Exception

**Action:** *Approved the exception to the creek setback requirements at 4103 Hidden Valley Road and authorized the City Manager to execute an agreement for construction within the creek setback zone. Vote: 3-0-2 (Ayes: Tatzin, Andersson, Federighi; Noes: None; Absent: Anderson and Anduri)*

11) COUNCIL/COMMISSION REPORTS

- A. Councilmember report on activities and consideration of matters a councilmember wishes to initiate for placement on a future agenda.



B. Reports from council on the Art & Wine Festival booth  
**Action: Received and filed.**

12) WRITTEN COMMUNICATIONS

13) ADJOURNMENT 8:46 pm

I, Joanne Robbins, declare under penalty of perjury that this agenda has been posted at least 72 hours in advance at the Lafayette City Offices, 3675 Mt. Diablo Blvd., Suite 210, Lafayette, CA.

\* Any writings or documents pertaining to an **open session** item provided to a majority of the City Council less than 72 hours prior to the meeting, shall be made available for public inspection at the front counter at City Hall located at 3675 Mt. Diablo Blvd., Suite 210, Lafayette, CA. during normal business hours.



## Exhibit C - Lafayette Regional Mitigation Strategies



**Infrastructure Mitigation Strategies**

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - unofficial Program	Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010 a-6	a-6	Develop a plan for speeding the repair and functional restoration of water and wastewater systems through stockpiling of shoring materials, temporary pumps, surface pipelines, portable hydrants, and other supplies, such as those available through the Water/Wastewater Agency Response Network (WARN). Communicate that plan to local governments and critical facility operators.	EQ LS WF FL DR SEC	Existing Program						✓			Not applicable to City	
a-7	a-7	Engage in, support, and/or encourage research by others (such as USGS, universities, or Pacific Earthquake Engineering Research Center-PEER) on measures to further strengthen transportation, water, sewer, and power systems so that they are less vulnerable to damage in disasters.	EQ LS WF FL DR SEC	Existing Program								City of Lafayette	See #a-5 above	
a-8	a-8	Pre-position emergency power generation capacity (or have rental/lease agreements for these generators) in critical buildings of cities, counties, and special districts to maintain continuity of government and services.	EQ LS WF FL SEC	Existing Program								City of Lafayette	Emergency generator installed at Library where EOC is located	
a-9	a-9	(REWORDED) Ensure that critical intersection traffic lights function following loss of power by installing battery back-ups, emergency generators, or lights powered by alternative energy sources such as solar. Proper functioning of these lights is essential for rapid evacuation, such as with hazmat releases resulting from natural disasters.	EQ LS WF FL SEC	Existing Program				✓				City of Lafayette	No analysis completed	
a-10	a-10	Develop unused or new pedestrian right-of-way as walkways to serve as additional evacuation routes (such as fire roads in park lands).	EQ LS WF FL SEC	Existing Program				✓				City of Lafayette	No analysis completed	
a-11	a-11	Minimize the likelihood that power interruptions will adversely impact lifeline utility systems or critical facilities by ensuring that they have adequate back-up power.	EQ LS WF FL SEC	Existing Program								City of Lafayette	Emergency generator installed at Library where EOC is located	

Infrastructure Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost, and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
a-12	a-12	Encourage replacing above ground electric and phone wires and other structures with underground facilities, and use the planning-approval process to ensure that all new phone and electrical utility lines are installed underground.	EQ LS WF FL SEC	✓								City of Lafayette	City has underground utilities in the downtown; where appropriate, requires new development to underground in the downtown area
a-13	a-13	If you own a dam, coordinate with the State Division of Safety of Dams to ensure an adequate timeline for the maintenance and inspection of dams, as required of dam owners by State law, and communicate this information to local governments and the public.	EQ LS WF FL SEC						✓			EBMUD	Not applicable to City
a-14	a-14	Encourage communication between State Emergency Management Agency (CalEMA), FEMA, and utilities related to emergencies occurring outside of the Bay Area that can affect service delivery in the region.	EQ LS WF FL DR SEC	✓								City of Lafayette	City's Emergency Preparedness Commission works with OES, other agencies
a-15	a-15	Ensure that transit operators, private ambulance companies, cities, and/or counties have mechanisms in place for medical transport during and after disasters that take into consideration the potential for reduced capabilities of roads following these same disasters.	EQ LS WF FL SEC	✓								City of Lafayette	Part of City's ongoing emergency preparedness program through OES, other agencies
a-16	new	Recognize that heat emergencies produce the need for non-medical transport of people to cooling centers by ensuring that (1) transit operators have plans for non-medical transport of people during and after such emergencies including the use of paratransit and (2) cities, counties, and transit agencies have developed ways to communicate the plan to the public.	Heat	✓								City of Lafayette	City's Senior Services provides cooling center at Community Center
a-17	a-16	Effectively utilize the Regional Transportation Management Center (TMC) in Oakland, the staffing of which is provided by Caltrans, the CHP and MTC. The TMC is designed to maximize safety and efficiency throughout the highway system. It includes the Emergency Resource Center (ERC) which was created specifically for primary planning and procedural disaster management. <b>RESPONSIBLE AGENCY: MTC only.</b>	EQ LS WF FL SEC						✓				Not applicable to City

Infrastructure Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program unfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY, if not same as regional priority, OR Other Comments
2009-2010	a-18	Develop (with the participation of paratransit providers, emergency responders, and public health professionals) plans and procedures for parasit system response and recovery from disasters.	EQ LS WF FL Heat SEC						✓				Not applicable to City
	a-19	Coordinate with other critical infrastructure facilities to establish plans for delivery of water and wastewater treatment chemicals.	EQ LS WF FL SEC						✓				Not applicable to City
	a-20	Establish plans for delivery of fuel to critical infrastructure providers.	EQ LS WF FL SEC						✓				Not applicable to City
	a-21	As an infrastructure operator, designate a back-up Emergency Operations Center with redundant communications systems.	EQ LS WF FL SEC						✓				Not applicable to City
	a-22	Monitor scientific studies of the Sacramento-San Joaquin Delta and policy decisions related to the long-term disaster resistance of that Delta system to ensure that decisions are made based on comprehensive analysis and in a scientifically-defensible manner. Levee failure due to earthquakes, flooding, and climate change (including sea level rise and more frequent and more severe flooding) are all of concern. The long-term health of the Delta area is critical to the Bay Area's water supply, is essential for the San Francisco Bay and estuary's environmental health, provides recreation opportunities for Bay Area residents, and provides the long-term sustainability of Delta communities. While only part of the Delta is within the nine Bay Area counties covered by this multi-jurisdictional LHMP, the Delta is tied to the infrastructure, water supply, and economy of the Bay Area.	EQ FL						✓				Not applicable to City

INFR - b - Earthquakes

**Infrastructure Mitigation Strategies**

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed, High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost, and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY, if not same as regional priority, OR Other Comments
b-1	b-1	Expedite the funding and retrofit of seismically-deficient city- and county-owned bridges and road structures by working with Caltrans and other appropriate governmental agencies.	EQ			✓					CalTrans	City's experience is that Caltrans processes have not allowed this to happen yet for the State owned bridges. No City-owned bridges.
b-2	b-2	Establish a higher priority for funding seismic retrofit of existing transportation and infrastructure systems (such as BART) than for expansion of those systems.	EQ	✓							City of Lafayette	City works with agencies through its representatives to those agencies
b-3	b-3	Include "areas subject to high ground shaking, earthquake-induced ground failure, and surface fault rupture" in the list of criteria used for determining a replacement schedule for pipelines (along with importance, age, type of construction material, size, condition, and maintenance or repair history).	EQ					✓			PG&E, others	Not applicable to City, but City supports the maintenance, improvement of existing pipelines in community
b-4	b-4	Install specially-engineered pipelines in areas subject to faulting, liquefaction, earthquake-induced landsliding, or other earthquake hazard.	EQ					✓				Not applicable to City, but City supports the maintenance, improvement of existing pipelines in community
b-5	b-5	Replace or retrofit water-retention structures that are determined to be structurally deficient, including levees, dams, reservoirs and tanks.	EQ					✓				Not applicable to City
b-6	b-6	Install portable facilities (such as hoses, pumps, emergency generators, or other equipment) to allow pipelines to bypass failure zones such as fault rupture areas, areas of liquefaction, and other ground failure areas (using a priority scheme if funds are not available for installation at all needed locations).	EQ					✓				Not applicable to City
b-7	b-7	Install earthquake-resistant connections when pipes enter and exit bridges and work with bridge owners to encourage retrofit of these structures.	EQ					✓				Not applicable to City
b-8	b-8	Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling infrastructure facilities.	EQ	✓								City meets all codes and regulations in the construction and reconstruction of public roads and storm drains
b-9	b-9	Clarify to workers in critical facilities and emergency personnel, as well as to elected officials and the public, the extent to which the facilities are expected to perform only at a life safety level (allowing for the safe evacuation of personnel) or are expected to remain functional following an earthquake.	EQ				✓					Part of the City's ongoing emergency operations training

**Infrastructure Mitigation Strategies**

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undertunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-10	b-10	Develop a water-based transportation "system" across the Bay for use in the event of major earthquakes. Implementation of such a system could prove extremely useful in the event of structural failure of either the road-bridge systems or BART and might serve as an adjunct to existing transportation system elements in the movement of large numbers of people and/or goods.	EQ	Existing Program	Existing Program, undertunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered		Not applicable to City



Infrastructure Mitigation Strategies

Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY, if not same as regional priority, OR Other Comments
2009-2010 Strategy Number													
2005 Original Strategy Number													
INFR - c - Wildfire													
c-1	Ensure a reliable source of water for fire suppression (meeting acceptable standards for minimum volume and duration of flow) for existing and new development.	WF	✓									City of Lafayette	Lafayette General Plan Safety Element Programs S-4.1.6, S-4.2.5
c-2	Develop a coordinated approach between fire jurisdictions and water supply agencies to identify needed improvements to the water distribution system, initially focusing on areas of highest wildfire hazard (including wildfire threat areas and in wildland-urban-interface areas).	WF		✓									Not applicable to City, but City supports coordinated approach between agencies
c-3	Develop a defensible space vegetation program that includes the clearing or thinning of (a) non-fire resistive vegetation within 30 feet of access and evacuation roads and routes to critical facilities, or (b) all non-native species (such as eucalyptus and pine, but not necessarily oaks) within 30 feet of access and evacuation roads and routes to critical facilities.	WF	✓									City of Lafayette	Lafayette General Plan Safety Element Policy S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety
c-4	For new development, ensure all dead-end segments of public roads in high hazard areas have at least a "T" intersection turn-around sufficient for typical wildland fire equipment.	WF	✓									City of Lafayette	Only for new roads through the development review process
c-5	For new development, enforce minimum road width of 20 feet with an additional 10-foot clearance on each shoulder on all driveways and road segments greater than 50 feet in length in wildfire hazard areas.	WF							✓				Not consistent with Lafayette topography and hillside development regulations.
c-6	Require that development in high fire hazard areas provide adequate access roads (with width and vertical clearance that meet the minimum standards of the Fire Code or relevant local ordinance), onsite fire protection systems, evacuation signage, and fire breaks.	WF	✓									City of Lafayette	Lafayette General Plan Safety Element Policies S-4.2, S-4.5; Lafayette Municipal Code Chapter 3.5, Fire Safety
c-7	Ensure adequate fire equipment road or fire road access to developed and open space areas.	WF	✓									City of Lafayette	Lafayette General Plan Safety Element Policies S-4.2, S-4.5; Lafayette Municipal Code Chapter 3.5, Fire Safety
c-8	Maintain fire roads and/or public right-of-way roads and keep them passable at all times.	WF	✓									City of Lafayette	City's vegetation management program for public rights-of-way
INFR - d - Flooding													
d-1	Conduct a watershed analysis of runoff and drainage systems to predict areas of insufficient capacity in the storm drain and natural creek system.	FL	✓									City of Lafayette	City's adopted Storm Drain Master Plan

Infrastructure Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	d-2	Develop procedures for performing a watershed analysis to examine the impact of development on flooding potential downstream, including communities outside of the jurisdiction of proposed projects.	FL	✓								City of Lafayette	Lafayette General Plan Safety Element Policy S-3.1, implemented through City's development review process
	d-3	Conduct a watershed analysis at least once every ten years unless there is a major development in the watershed or a major change in the Land Use Element of the General Plan of the cities or counties within the watershed.	FL								✓	City of Lafayette	No resources at this time, but will consider in the future
	d-4	Assist, support, and/or encourage the U.S. Army Corp of Engineers, various Flood Control and Water Conservation Districts, and other responsible agencies to locate and maintain funding for the development of flood control projects that have high cost-benefit ratios (such as through the writing of letters of support and/or passing resolutions in support of these efforts).	FL	✓								City of Lafayette	City's Creek Committee works with other agencies, where appropriate, to maintain Lafayette's creek system
	d-5	Pursue funding for the design and construction of storm drainage projects to protect vulnerable properties, including property acquisitions, upstream storage such as detention basins, and channel widening with the associated right-of-way acquisitions, relocations, and environmental mitigations.	FL								✓	City of Lafayette	Not the City's policy to acquire and/or expand private properties and/or systems
	d-6	Continue to repair and make structural improvements to storm drains, pipelines, and/or channels to enable them to perform to their design capacity in handling water flows as part of regular maintenance activities. (This strategy has the secondary benefit of addressing fuel, chemical, and cleaning product issues.)	FL	✓								City of Lafayette	City's adopted Storm Drain Master Plan and Capital Improvement Program
	d-7	Continue maintenance efforts to keep storm drains and creeks free of obstructions, while retaining vegetation in the channel (as appropriate) to allow for the free flow of water.	FL	✓								City of Lafayette	City's vegetation management program for publicly owned storm drains and creeks: Lafayette General Plan Safety Program S-3.3.1
	d-8	Enforce provisions under creek protection, stormwater management, and discharge control ordinances designed to keep watercourses free of obstructions and to protect drainage facilities to conform with the Regional Water Quality Control Board's Best Management Practices.	FL	✓								City of Lafayette	Annual public outreach through City newsletter, letters to creek property owners; Lafayette Municipal Code Chapters 3-5, Stormwater Management, and 6-18, Flood Damage Protection

**Infrastructure Mitigation Strategies**

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program	Very High - Underfunded	Official Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost, and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
d-9	d-9	Develop an approach and locations for various watercourse bank protection strategies, including for example, (1) an assessment of banks to inventory areas that appear prone to failure, (2) bank stabilization, including installation of rip rap, or whatever regulatory agencies allow (3) stream bed depth management using dredging, and (4) removal of out-of-date coffer dams in rivers and tributary streams.	FL	✓										City of Lafayette	No inventory, but annual inspection program rotating different creek watersheds
d-10	d-10	Use reservoir sediment or reed removal as one way to increase storage for both flood control and water supply.	FL								✓				Not applicable to City
d-11	d-11	Identify critical locally-owned bridges affected by flooding and either elevate them to increase stream flow and maintain critical ingress and egress routes or modify the channel to achieve equivalent objectives.	FL								✓				Not applicable to City
d-12	d-12	Provide or support the mechanism to expedite the repair or replacement of levees that are vulnerable to collapse from earthquake-induced shaking or liquefaction, rodents, and other concerns, particularly those protecting critical infrastructure.	FL								✓				Not applicable to City
d-13	d-13	Ensure that utility systems in new developments are constructed in ways that reduce or eliminate flood damage.	FL	✓										City of Lafayette	Done through City's development review process
d-14	d-14	Determine whether or not wastewater treatment plants are protected from floods, and if not, investigate the use of flood-control berms to not only protect from stream or river flooding, but also increase plant security.	FL								✓				Not applicable to City
d-15	d-15	Work cooperatively with water agencies, flood control districts, Caltrans, and local transportation agencies to determine appropriate performance criteria for watershed analysis.	FL								✓				No resources at this time, but will consider in the future and will support work of others
d-16	d-16	Work for better cooperation among the patchwork of agencies managing flood control issues.	FL								✓				No resources at this time, but will consider in the future and will support work of others
d-17	d-17	Improve monitoring of creek and watercourse flows to predict potential for flooding downstream by working cooperatively with land owners and the cities and counties in the watershed.	FL											Cities of Lafayette, Orinda, Town of Moraga	

**Infrastructure Mitigation Strategies**

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
d-18	new	Using criteria developed by EPA for asset management, inventory existing assets, the condition of those assets, and improvements needed to protect and maintain those assets. Capture this information in a Geographic Information System (GIS) and use it to select locations for creek monitoring gauges.	FL								✓	City of Lafayette	No resources at this time, but will consider in the future

Infrastructure Mitigation Strategies

Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010 Strategy Number	<p>Include "areas subject to ground failure" in the list of criteria used for determining a replacement schedule (along with importance, age, type of construction material, size, condition, and maintenance or repair history) for pipelines.</p>	LS	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	Lafayette General Plan Safety Element Policy S-1.3; Lafayette Municipal Code Chapters 3-7, Grading, and 6-20, Hillside Development
2005 Original Strategy Number													
INFR - e - 1 e-1	<p>Establish requirements in zoning ordinances to address hillside development constraints in areas of steep slopes that are likely to lead to excessive road maintenance or where roads will be difficult to maintain during winter storms due to landsliding.</p>	LS	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	Not cost-effective and not applicable to City's storm drain system
INFR - f - 1 f-1	<p>Ensure that critical buildings owned or leased by special districts or private utility companies participate in a program similar to San Francisco's Building Occupancy Resumption Program (BORP). The BORP program permits owners of buildings to hire qualified engineers to create facility-specific post-disaster inspection plans and allows these engineers to become automatically deputized as City/County inspectors for these buildings in the event of an earthquake or other disaster. This program allows rapid reoccupancy of the buildings. Note - A qualified (deleted structural) engineer is a California licensed engineer with relevant experience.</p>	EQ LS WF FL SEC	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	Not applicable to City
INFR - g - 1 g-1	<p>Provide materials to the public related to planning for power outages.</p>	EQ LS WF FL SEC	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	City's Emergency Preparedness Commission's website
g-2	<p>Provide materials to the public related to family and personal planning for delays due to traffic or road closures, or due to transit system disruption caused by disasters.</p>	EQ LS WF FL SEC	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	City's Emergency Preparedness Commission's website

**Infrastructure Mitigation Strategies**

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010 g-3	g-3	2005, Original	EQ LS WF FL DR SEC	✓								City of Lafayette	City's Emergency Preparedness Commission's website
g-3	g-3	Provide materials to the public related to coping with reductions in water supply or contamination of that supply <b>BEYOND regulatory notification requirements.</b>	EQ LS WF FL DR SEC									City of Lafayette	City's Emergency Preparedness Commission's website
g-4	g-4	Provide materials to the public related to coping with disrupted storm drains, sewage lines, and wastewater treatment (such as that developed by ABAG's Sewer Smart Program).	EQ LS WF FL DR SEC	✓								City of Lafayette	City's Emergency Preparedness Commission's website
g-5	g-5	Facilitate and/or coordinate the distribution of emergency preparedness or mitigation materials that are prepared by others, such as by making the use of the internet or other electronic means, or placing materials on community access channels or in city or utility newsletters, as appropriate.	EQ LS WF FL DR SEC	✓								City of Lafayette	City's Emergency Preparedness Commission's website
g-6	new	Sponsor the formation and training of Community Emergency Response Teams (CERT) for the employees of your agency. [Note - these programs go by a variety of names in various cities and areas.]	EQ LS WF FL DR SEC								✓	City of Lafayette	City's Emergency Preparedness Commission coordinates CERT for volunteers; City employees go through regular emergency preparedness and response training
g-7	new	Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparenow.org">http://www.preparenow.org</a> website related to infrastructure issues.	EQ LS WF FL DR SEC	✓								City of Lafayette	City's Emergency Preparedness Commission's website

## Health Mitigation Strategies

Strategy Number		Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program	Underfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Appropriate or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010				Existing Program	Existing Program	Underfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Appropriate or Not Cost Effective	Not Yet Considered		
a-1	a-1	<p>HEAL - a - Hospitals and Other Critical Health Care Facilities (including those facilities licensed by OSHPD, as well as water agencies, public &amp; private hospitals as noted). To be filled out by cities, counties, and county health departments</p> <p>Work to ensure that cities, counties, county health departments, and hospital operators coordinate with each other (and that hospitals cooperate with the California Office of Statewide Health Planning and Development - OSHPD) to comply with current state law that mandates that critical facilities are structurally sound and have nonstructural systems designed to remain functional following disasters by 2013. In particular, this coordination should include understanding any problems with obtaining needed funding. <b>RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals</p>	EQ LS WF FL SEC									✓				Not applicable to City
a-2	a-2	<p>Encourage hospitals in your community to work with OSHPD to formalize arrangements with structural engineers to report to the hospital, assess damage, and determine if the buildings can be reoccupied. The program should be similar to San Francisco's Building Occupancy Resumption Program (BORP) that permits owners of buildings to hire qualified structural engineers to create building-specific post-disaster inspection plans and allows these engineers to become automatically deputized as inspectors for these buildings in the event of an earthquake or other disaster. OSHPD, rather than city/county building departments, has the authority and responsibility for the structural integrity of hospital structures. <b>RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals</p>	EQ LS WF FL SEC									✓				Not applicable to City
a-3	a-3	<p>Ensure health care facilities are adequately prepared to care for victims with respiratory problems related to smoke and/or particulate matter inhalation. <b>RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals</p>	EQ WF SEC									✓				Not applicable to City
a-4	a-4	<p>Ensure these health care facilities have the capacity to shut off outside air and be self-contained. <b>RESPONSIBLE AGENCIES:</b> Cities, counties, county health departments, and hospitals</p>	EQ WF SEC									✓				Not applicable to City

Health Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High- Unofficial Program- Becomes Official, on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
a-5	2009-2010	Ensure that hospitals and other major health care facilities have auxiliary water and power sources. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments, water suppliers, and hospitals</b>	EQ LS WF FL SEC	Existing Program	Existing Program, Underfunded	Very High- Unofficial Program- Becomes Official, on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered		Not applicable to City
a-6	a-6	Work to ensure that county health departments work with health care facilities to institute isolation capacity should a need for them arise following a communicable disease epidemic. Isolation capacity varies from a section of the hospital for most communicable diseases to the entire hospital for a major pandemic flu. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b>	EQ WF FL SEC							✓			Not applicable to City
a-7	a-7	Develop printed materials, utilize existing materials (such as developed by FEMA, the American Red Cross, and others, including non-profit organizations), conduct workshops, and/or provide outreach encouraging employees of these critical health care facilities to have family disaster plans and conduct mitigation activities in their own homes. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b>	EQ LS WF FL SEC							✓			Not applicable to City
<b>HEAL - b - Ancillary Health-Related Facilities (including medical offices, pharmacies, free-standing or specialty clinics, etc.)</b>													
b-1	b-1	Identify these ancillary facilities in your community. These facilities are not regulated by OSHPD in the same way as hospitals. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>	EQ LS WF FL SEC							✓			Not applicable to City
b-2	b-2	Encourage these facility operators to develop disaster mitigation plans. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>	EQ LS WF FL SEC							✓			Not applicable to City
b-3	b-3	Encourage these facility operators to create, maintain, and/or continue partnerships with local governments to develop response and business continuity plans for recovery. <b>RESPONSIBLE AGENCIES: Cities, counties, and county health departments</b>	EQ LS WF FL SEC							✓			Not applicable to City
<b>HEAL - c - Coordination Initiatives</b>													



Health Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
c-1	c-1	Designate locations for the distribution of antibiotics to large numbers of people should the need arise, as required to be included in each county's Strategic National Stockpile Plan. <b>RESPONSIBLE AGENCIES: County Health Departments</b>	FLU SEC	Existing Program					Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered		Not applicable to City
c-2	c-2	Ensure that you know the Metropolitan Medical Response System (MMRS) cities in your area. Fremont, Oakland, San Francisco, and San Jose (plus Sacramento and Stockton) are the MMRS cities in or near the Bay Area. MMRS cities are provided with additional federal funds for organizing, equipping, and training groups of local fire, rescue, medical, and other emergency management personnel to respond to a mass casualty event. (The coordination among public health, medical, emergency management, coroner, EMS, fire, and law enforcement is a model for all cities and counties.) <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b>	EQ LS WF FL SEC	Existing Program								City of Lafayette	City participates in Contra Costa County OES program
c-3	c-3	Know that National Disaster Medical System (NDMS) uniformed or non-uniformed personnel are within one-to-four hours of your community. These federal resources include veterinary, mortuary, and medical personnel. Teams in or near the Bay Area are headquartered in the cities of Santa Clara and Sacramento. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals</b>	EQ LS WF FL SEC	Existing Program								City of Lafayette	City participates in Contra Costa County OES program
c-4	c-4	Plan for hazmat related-issues due to a natural or technological disaster. Hazmat teams should utilize the State of California Department of Health Services laboratory in Richmond for confirmation of biological agents and Lawrence Livermore National Laboratory or Sandia (both in Livermore) for confirmation of radiological agents. <b>RESPONSIBLE AGENCIES: Cities, counties, county health departments, and hospitals.</b>	EQ WF FL SEC	Existing Program								City of Lafayette	City participates in Contra Costa County OES program
c-5	d-1	Create discussion forums for food and health personnel (including, for example, medical professionals, veterinarians, and plant pathologists) to develop safety, security, and response strategies for food supply contamination (at the source, in processing facilities, in distribution centers, and in grocery stores). <b>RESPONSIBLE AGENCIES: County environmental health departments</b>	FL SEC	Existing Program									Not applicable to City

Health Mitigation Strategies

2009-2010 Strategy Number	2005 Original Strategy Number	new	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High-Official Program	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments	
2009-2010			Ensure mental health continuity of operations and disaster planning is coordinated among county departments, (including Public Health and Emergency Services), private sector mental health organizations, professional associations, and national and community-based non-profit agencies involved in supporting community mental health programs. <b>First</b> , such planning should ensure that the capability exists to provide both immediate on-site mental health support at facilities such as evacuation centers, emergency shelters, and local assistance centers, as well as to coordinate on-going mental health support during the long-term recovery process. <b>Second</b> , this planning should ensure that mental health providers, in collaboration with the county agencies responsible for providing public information, are prepared to provide consistent post-disaster stress and other mental health guidance to the public impacted by the disaster.	EQ LS WF FL SEC	Existing Program	Existing Program, underfunded	Very High-Official Program	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered		Not applicable to City	
deleted	d-2		(duplicate information to c-2)													
deleted	d-3		(duplicate information to c-3)													
deleted	d-4		(duplicate information to c-4)													

## Housing Mitigation Strategies

		Priority (CHECK ONLY ONE)										Applicable Hazards	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments				
		Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	HSNG - a- Multi-Hazard	<p style="text-align: center;">Specific Mitigation Strategy</p>											EQ LS WF FL SEC	Lafayette General Plan Housing Element Policies H-1.1. Link to ABAG on City's website. City's maps from General Plan are on City website			
a-1	a-1	<p>Assist in ensuring adequate hazard disclosure by working with real estate agents to improve enforcement of real estate disclosure requirements for residential properties with regard to seven official natural hazard zones: 1) Special Flood Hazard Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazard Severity Zones, 4) Wildland Fire Zones, 5) Earthquake Fault Zones (designated under the Alquist-Priolo Earthquake Fault Zoning Act), and the 6) Liquefaction and Landslide Hazard Zones (designated under the Seismic Hazard Mapping Act).</p>											EQ LS WF FL SEC	No designated historic residential properties in Lafayette			
a-2	a-2	<p>Create incentives for private owners of historic or architecturally significant residential buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's <i>Guidelines for Rehabilitation</i>.</p>											EQ LS WF FL SEC	Through City's ongoing emergency preparedness and response program			
a-3	NEW Was GOV T b-4	<p>Develop a plan for short-term sheltering of residents of your community in conjunction with the American Red Cross.</p>											EQ LS WF FL SEC				
a-4	NEW Was GOV T b-4	<p>Develop a plan for interim housing for those displaced by working with the Regional Catastrophic Planning Grant Program (CPGP) that funded this effort in 2009. (Estimated completion is 2011.)</p>											EQ LS WF FL SEC				

## Housing Mitigation Strategies

Strategy Number	Strategy Original	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	b-1	<p>Utilize or recommend adoption of a retrofit standard that includes standard plan sets and construction details for voluntary bolting of homes to their foundations and bracing of outside walls of crawl spaces ("cripple" walls), such as <b>Plan Set A</b> developed by a committee representing the East Bay-Peninsula-Monterey Chapters of the International Code Council (ICC), California Building Officials (CALBO), the Structural Engineers Association of Northern California (SEAONC), the Northern California Chapter of the Earthquake Engineering Research Institute (EERI-NC), and ABAG's Earthquake Program.</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-2	<p>Require engineered plan sets for seismic retrofitting of heavy two-story homes with living areas over garages, as well as for split level homes (that is, homes not covered by Plan Set A), until standard plan sets and construction details become available.</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-3	<p>Require engineered plan sets for seismic retrofitting of homes on steep hillsides (because these homes are not covered by Plan Set A).</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-4	<p>Encourage local government building inspectors to take classes on a periodic basis (such as the FEMA-developed training classes offered by ABAG) on retrofitting of single-family homes, including application of Plan Set A.</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-5	<p>Encourage private retrofit contractors and home inspectors doing work in your area to take retrofit classes on a periodic basis (such as the FEMA-developed training classes offered by ABAG or additional classes that might be offered by the CALBO Training Institute) on retrofitting of single-family homes.</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-6	<p>Conduct demonstration projects on common existing housing types demonstrating structural and nonstructural mitigation techniques as community models for earthquake mitigation.</p>	EQ						✓			Contra Costa County	Not applicable to City
	b-7	<p>Provide retrofit classes or workshops for homeowners in your community, or help promote utilization of subregional workshops in the South Bay, East Bay, Peninsula, and North Bay as such workshops become available through outreach using existing community education programs.</p>	EQ						✓			Contra Costa County	Not applicable to City

### Housing Mitigation Strategies

Strategy Number	2009-2010	2005 Original	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-8	b-8	b-8	b-8	Establish tool-lending libraries with common tools needed for retrofitting for use by homeowners with appropriate training.	EQ									Contra Costa County	Not applicable to City
b-9	b-9	b-9	b-9	(reworded) Provide financial incentives to owners of single-family homes to retrofit if those retrofits comply with Plan Set A or IEBC 2006 in addition to that provided by existing state law. State law that makes such retrofits exempt from increases in property taxes.	EQ									Contra Costa County	Not applicable to City
<b>HSNG - c - Soft-Story Multifamily Residential Structures Vulnerable to Earthquakes</b>															
c-1	c-1	c-1	c-1	Require engineered plan sets for voluntary or mandatory soft-story seismic retrofits by private owners until a standard plan set and construction details become available.	EQ									Contra Costa County	Not applicable to City
c-2	c-2	c-2	c-2	Adopt the 2009 (changed date) International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory soft-story building retrofits for use in city/county building department regulations. In addition, allow use of changes to that standard recommended by SEAC for the 2012 IEBC.	EQ									Contra Costa County	Not applicable to City
c-3	c-3	c-3	c-3	Work to educate building owners, local government staff, engineers, and contractors on privately-owned soft-story retrofit procedures and incentives using materials such as those developed by ABAG and the City of San Jose (see <a href="http://quake.abag.ca.gov/eqhouse.html">http://quake.abag.ca.gov/eqhouse.html</a> .)	EQ									Contra Costa County	Not applicable to City
c-4	c-4	c-4	c-4	Conduct an inventory of privately-owned existing or suspected soft-story residential structures as a first step in establishing voluntary or mandatory programs for retrofitting these buildings.	EQ									Contra Costa County	Not applicable to City
c-5	c-5	c-5	c-5	Use the soft-story inventory to require private owners to inform all existing tenants (and prospective tenants prior to signing a lease agreement) that they may live in this type of building.	EQ									Contra Costa County	Not applicable to City
c-6	c-6	c-6	c-6	Use the soft-story inventory to require private owners to inform all existing and prospective tenants that they may need to be prepared to live elsewhere following an earthquake if the building has not been retrofitted.	EQ									Contra Costa County	Not applicable to City

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c-7	2009-2010	Investigate and adopt appropriate financial, procedural, and land use incentives (such as parking waivers) for private owners of soft-story buildings to facilitate retrofit such as those described by ABAG (see <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> ).	EQ	Existing Program								Contra Costa County	Not applicable to City
c-8	c-8	(reworded) Explore development of State regulations or legislation to require or encourage private owners of soft-story structures to strengthen them.	EQ							✓		Contra Costa County	Not applicable to City
c-9	c-9	Provide technical assistance in seismically strengthening privately-owned soft-story structures.	EQ							✓		Contra Costa County	Not applicable to City
<b>HSNG - d - Unreinforced Masonry/Housing Stock</b>													
d-1	d-1	Continue to actively implement existing State law that requires cities and counties to maintain lists of the addresses of unreinforced masonry buildings and inform private property owners that they own this type of hazardous structure.	EQ	✓								City of Lafayette	City maintains list; all 4 URM buildings have been mitigated pursuant to Contra Costa County program
d-2	d-2	Accelerate retrofitting of privately-owned unreinforced masonry structures that have not been retrofitted, for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory versus voluntary, retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings.	EQ							✓		Contra Costa County	All 4 URM buildings have been mitigated pursuant to County program
d-3	d-3	Require private owners to inform all existing tenants (and prospective tenants prior to signing a lease agreement) that they live in an unreinforced masonry building and the standard to which it may have been retrofitted.	EQ							✓		Contra Costa County	All 4 URM buildings have been mitigated pursuant to County program. County runs building safety programs.
d-4	d-4	As required by State law, require private owners to inform all existing tenants that they may need to be prepared to live elsewhere following an earthquake even if the building has been retrofitted, because it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.	EQ							✓		Contra Costa County	County runs building safety programs.

## Housing Mitigation Strategies

Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	e-1	Identify and work toward tying down mobile homes used as year-round permanent residences using an appropriate cost-sharing basis (for example, 75% grant, 25% owner).	EQ							✓		Contra Costa County	Not applicable to City
	e-2	Inventory non-ductile concrete, tilt-up concrete (such as converted lofts), and other privately-owned potentially structurally vulnerable residential buildings.	EQ							✓		Contra Costa County	Not applicable to City
	e-3	Adopt the 2009 International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory retrofit of privately-owned seismically vulnerable buildings.	EQ							✓		Contra Costa County	Not applicable to City
	e-4	Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned seismically vulnerable residential buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use (such as parking requirement waivers) and procedural incentives, or (f) technical assistance.	EQ								✓	City of Lafayette	Not a policy at this time. Will consider in the future.
	f-1	Continue to require that all new housing be constructed in compliance with (deleted "structural") requirements of the most recently adopted version of the California Building Code.	EQ							✓		Contra Costa County	Not applicable to City
	f-2	Conduct appropriate employee training and support continued education to ensure enforcement of building codes and construction standards, as well as identification of typical design inadequacies of housing and recommended improvements.	EQ							✓		Contra Costa County	Not applicable to City
	g-1	Increase efforts to reduce hazards in existing private development in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on defensible space mitigation strategies.	WF									City of Lafayette	Lafayette General Plan Safety Element Policies S-4.1, S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety
	g-2	The public education on defensible space and a comprehensive defensible space ordinance to a field program of enforcement.	WF								✓	City of Lafayette	No policy or program at this time. Will consider working with Contra Costa County Fire District.

### Housing Mitigation Strategies

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g-3	2009-2010	Require that new homes in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat be constructed of fire-resistant building materials (including roofing and exterior walls) and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability. <b>Note</b> - See Structural Fire Prevention Field Guide for Mitigation of Wildfires at <a href="http://osfm.fire.ca.gov/structural.html">http://osfm.fire.ca.gov/structural.html</a> .	WF	Existing Program								City of Lafayette	Lafayette General Plan Safety Element Policies S-4.1, S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety
g-4	g-4	Create or identify "model" properties showing defensible space and structural survivability in neighborhoods that are wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF										No policy or program at this time. Will consider working with Contra Costa County Fire District.
g-5	g-5	Consider fire safety, evacuation, and emergency vehicle access when reviewing proposals to add secondary units or additional residential units in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF									City of Lafayette	Lafayette General Plan Safety Element Policies S-4.1, S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety, and 6-20, Hillside Development
g-6	g-6	Adopt and amend as needed updated versions of the <i>California Building and Fire Codes</i> so that optimal fire-protection standards are used in construction and renovation projects of private buildings.	WF									Contra Costa County	Not applicable to City
g-7	g-7	Create a mechanism to enforce provisions of the <i>California Building and Fire Codes</i> and other local codes that require the installation of smoke detectors and fire-extinguishing systems on existing residential buildings by making installation a condition of (a) finalizing a permit for any work valued at over a fixed amount and/or (b) on any building over 75 feet in height, and/or (b) as a condition for the transfer of property.	WF									Contra Costa County	Not applicable to City
g-8	g-8	Work to ensure a reliable source of water for fire suppression in rural-residential areas through the cooperative efforts of water districts, fire districts, and residents.	WF										City supports efforts of fire and water districts to ensure adequate water supplies



## Housing Mitigation Strategies

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2009-2010 g-9	Expand vegetation management programs in wildland-urban- interface fire-threatened communities or in areas exposed to high-to-extreme fire threat to more effectively manage the fuel load through roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction, and selected use of controlled burning.	WF								✓	City of Lafayette	No policy or program at this time. Will support efforts by Contra Costa County Fire District, other districts. Lafayette General Plan Safety Program S-4.2.3.
g-10 g-11	Establish special funding mechanisms (such as Fire Hazard Abatement Districts or regional bond funding) to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.	WF								✓	City of Lafayette	No policy or program at this time. Will consider program as part of update of General Plan.
g-11 g-12	Work with residents in rural-residential areas to ensure adequate plans are developed for appropriate access and evacuation in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat. For example, in some areas, additional roads can be created, and in other areas, the communities will need to focus on early warning and evacuation because additional roads are not feasible.	WF	✓								City of Lafayette	Development process for new development in hillside areas requires adequate access
g-12 g-13	Require fire sprinklers in new homes located more than 1.5 miles or a 5-minute response time from a fire station or in an identified high hazard wildland-urban-interface wildfire area.	WF	✓								City of Lafayette	Lafayette General Plan Safety Element Program S-4.2.7
g-13 g-14	Require fire sprinklers in all new or substantially remodeled multifamily housing, regardless of distance from a fire station.	WF	✓								City of Lafayette	Lafayette General Plan Safety Element Program S-4.2.7
g-14 g-15	Require sprinklers in all mixed use development to protect residential uses from fires started in non-residential areas.	WF	✓								City of Lafayette	Lafayette General Plan Safety Element Program S-4.2.7
g-15 g-16	Compile a list of privately-owned high-rise and high-occupancy buildings which are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.	WF						✓			Contra Costa County	Not applicable to City
g-16 g-17	Conduct periodic fire-safety inspections of all multi-family buildings, as required by State law.	WF						✓			Contra Costa County	Not applicable to City

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2009-2010	g-17	2005 Original	g-18	WF LS	✓	Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	City of Lafayette	City's vegetation management program and creek maintenance program
g-18	g-19	Ensure that city/county-initiated fire-preventive vegetation-management techniques and practices for creek sides and high-slope areas do not contribute to the landslide and erosion hazard. For example, vegetation in these sensitive areas could be thinned, rather than removed, or replanted with less flammable materials. When thinning, the non-native species should be removed first. Other options would be to use structural mitigation, rather than vegetation management in the most sensitive areas.	WF	✓	Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Contra Costa County	Not applicable to City	
g-19	g-20	Create a mechanism to require the bracing of water heaters and flexible couplings on gas appliances, and/or (as specified under "b. Single-family homes vulnerable to earthquakes" above) the bolting of homes to their foundations and strengthening of cripple walls to reduce fire ignitions due to earthquakes.	EQ WF		Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Contra Costa County	Not applicable to City	
g-20	new	Work with the State Fire Marshall, the California Seismic Safety Commission, Pacific Earthquake Engineering Research Center (PEER), and other experts to identify and manage gas-related fire risks of soft-story residential or mixed use buildings that are prone to collapse and occupant entrapment consistent with the natural gas safety recommendations of Seismic Safety Commission Report SSC-02-03. Note - See <a href="http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf">http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf</a> . Also note - any values that are installed may need to have both excess flow and seismic triggers ("hybrid" valves).	EQ WF		Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Contra Costa County	Not applicable to City	
g-20	new	Work with insurance companies to create a public/private partnership to give a discount on fire insurance premiums to "Forester Certified" Fire Wise landscaping and fire-resistant building materials on private property.	WF		Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Contra Costa County	Not applicable to City	
HSNG	h-1	h-1	FL		Existing Program	Existing Program, undfunded	Very High - Unofficial Program	Becomes Official on Plan Adoption	no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	City of Lafayette	No policy or program at this time regarding highest-feasible rating, but City has program to participate in Nat'l Flood Ins program: General Plan Safety Element Program S-3.2.2.	

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h-2	h-2	Balance the housing needs of residents against the risk from potential flood-related hazards.	FL	✓								City of Lafayette	Lafayette General Plan Safety Element Policies S-3.1 through 3.5; Lafayette Municipal Code Chapter 6-18, Flood Damage Protection Through development review process
h-3	h-3	Ensure that new private development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, or does not increase runoff by draining water to pervious areas or detention facilities.	FL	✓								City of Lafayette	Through development review process
h-4	h-4	Provide sandbags and plastic sheeting to residents in anticipation of rainstorms, and deliver those materials to vulnerable populations upon request.	FL	✓								City of Lafayette	Public Works program
h-5	h-5	Provide public information on locations for obtaining sandbags and/or deliver those sandbags to those various locations throughout a city and/or county prior to and/or during the rainy season.	FL	✓								City of Lafayette	Public Works program
h-6	h-6	Apply floodplain management regulations for private development in the floodplain and floodway.	FL	✓								City of Lafayette	Lafayette General Plan Safety Element Policies S-3.1 through 3.5; Lafayette Municipal Code Chapter 6-18, Flood Damage Protection Through development review process
h-7	h-7	Ensure that new subdivisions are designed to reduce or eliminate flood damage by requiring lots and rights-of-way be laid out for the provision of approved sewer and drainage facilities, providing on-site detention facilities whenever practicable.	FL	✓								City of Lafayette	Through development review process
h-8	h-8	Encourage home and apartment owners to participate in home elevation programs within flood hazard areas.	FL								✓	City of Lafayette	No policy or program at this time. Will consider in future General Plan update.
h-9	h-9	As funding opportunities become available, encourage home and apartment owners to participate in acquisition and relocation programs for areas within floodways.	FL								✓	City of Lafayette	No policy or program at this time. Will consider in future General Plan update.
h-10	h-10	Encourage owners of properties in a floodplain to consider purchasing flood insurance. For example, point out that most homeowners' insurance policies do not cover a property for flood damage.	FL								✓	City of Lafayette	No policy or program at this time. Will consider in future General Plan update.

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2009-2010	i-1	i-1	<p><b>LS</b></p> <p><b>Landslides and Erosion</b></p> <p>Increase efforts to reduce landslides and erosion in existing and future development by improving appropriate code enforcement and use of applicable standards for <b>private property</b>, such as those appearing in the <i>California Building Code</i>, <i>California Geological Survey Special Report 117 - Guidelines for Evaluating and Mitigating Seismic Hazards in California</i>, <i>American Society of Civil Engineers (ASCE) report Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California</i>, and the <i>California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports</i>. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance.</p>	✓	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official, on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	Lafayette General Plan Safety Element Policies S-1.2 through 1.4; Lafayette Municipal Code Chapter 6-20, Hillside Development; through development review process
2009-2010	i-2	i-2	<p><b>LS</b></p> <p>Increase efforts to reduce landslides and erosion in existing and future <b>private</b> development through continuing education of design professionals on mitigation strategies.</p>	✓	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official, on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	City of Lafayette	Lafayette General Plan Safety Element Policies S-1.2 through 1.4; Lafayette Municipal Code Chapter 6-20, Hillside Development; through development review process

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2009-2010	j-1	Building Reoccupancy Develop and enforce a repair and reconstruction ordinance to ensure that damaged buildings are repaired in an appropriate and timely manner and retrofitted concurrently. This repair and reconstruction ordinance should apply to all public and private buildings, and also apply to repair of all damage, regardless of cause. See <a href="http://quake.abag.ca.gov/recovery/info-repair-ord.html">http://quake.abag.ca.gov/recovery/info-repair-ord.html</a> .	EQ LS WF FL SEC	Existing Program						✓		Contra Costa County	Not applicable to City
	j-2	Establish preservation-sensitive measures for the repair and reoccupancy of historically significant privately-owned structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.	EQ LS WF FL SEC							✓		Contra Costa County	Not applicable to City
	k-1	Public Education Provide information to residents of your community on the availability of interactive hazard maps showing your community on ABAG's web site.	EQ LS WF FL SEC				✓					City of Lafayette	Will provide information at City offices, website. City website has link to ABAG
	k-2	Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging residents to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.	EQ LS WF FL SEC	✓								City of Lafayette	City offices; City newsletter; City Emergency Preparedness Commission's website
	k-3	Inform residents of comprehensive mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in high wildfire threat and wildfire-urban-interface areas, structural retrofitting techniques for older homes, and use of intelligent grading practices through workshops, publications, and media announcements and events.	EQ LS WF FL SEC								✓	City of Lafayette	Will provide information at City offices, website.
	k-4	Develop a public education campaign on the cost, risk, and benefits of earthquake, flood, and other hazard insurance as compared to mitigation.	EQ LS FL SEC										

### Housing Mitigation Strategies

Strategy Number	Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
k-5	2009-2010	Use disaster anniversaries, such as April (the 1906 earthquake), September (9/11), and October (Loma Prieta earthquake and Oakland Hills fire), to remind the public of safety and security mitigation activities.	EQ LS WF FL SEC								✓	City of Lafayette	Will provide information at City offices, website
k-6	k-6	Sponsor the formation and training of Community Emergency Response Teams (CERT) for residents in your community. [Note - these programs go by a variety of names in various cities and areas.]	EQ LS WF FL SEC	✓								City of Lafayette	City has CERT program with County
k-7	k-7	Include flood fighting technique session based on California Department of Water Resources training to the list of available public training classes offered by CERT.	FL								✓	City of Lafayette	Will consider as part of City's Emergency Preparedness program
k-8	k-8	Institute the neighborhood watch block captain and team programs outlined in the Citizen Corps program guide.	EQ LS WF FL SEC								✓	City of Lafayette	Will consider as part of City's Emergency Preparedness program
k-9	k-9	Assist residents in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF							✓		Contra Costa Fire District	Not applicable to City
k-10	k-10	Train homeowners to locate and shut off gas valves if they smell or hear gas leaking.	EQ LS WF FL SEC								✓	City of Lafayette	Will provide information at City Offices, newsletter, website
k-11	k-12	Develop a program to provide at-cost NOAA weather radios to residents of flood hazard areas that request them, with priority to neighborhood watch captains and others trained in their use.	FL								✓		No policy or program, but City will support efforts of other agencies
k-12	k-13	Make use of the materials on the ABAG web site at <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> and other web sites to increase residential mitigation activities related to earthquakes. (ABAG plans to continue to improve the quality of those materials over time.)	EQ									City of Lafayette	Through LHMP process
k-13	k-14	Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging private businesses and residents to keep storm drains in their neighborhood free of debris.	FL									City of Lafayette	City's Creek Committee has community creek maintenance programs, information; City participates in County Clean Water Program

### Housing Mitigation Strategies

Strategy Number	2009-2010	2005 Original	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
k-14	k-15			Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the <i>Fire Wise Program</i> . This effort is important because grant funds are currently available to offset costs of specific council-supported projects.	WF									City of Lafayette	No policy or program, but City will support efforts of other agencies
k-15	k-16			Inform shoreline-property owners of the possible long-term economic threat posed by rising sea levels.	FL										Not applicable to City
k-16	k-17			Distribute appropriate materials related to disaster mitigation and preparedness to residents. Appropriate materials are (1) culturally appropriate and (2) suitable for special needs populations. For example, such materials are available on the <a href="http://www.preparenow.org">http://www.preparenow.org</a> website and from non-governmental organizations that work with these communities on an on-going basis.	EQ LS WF FL SEC									City of Lafayette	City's Emergency Preparedness Commission's programs and website
deleted	g-10			DELETED - REPLACED BY DISCUSSION OF REVERSE 911 in GOVT c-14.											
deleted	k-11														

Economy Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program	Underfunded	Very High - Official Program	on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	ECON - a - Multi-Hazard														
a-1	a-1	Assist in ensuring adequate hazard disclosure by working with real estate agents to improve enforcement of real estate disclosure requirements for commercial and industrial properties with Special Flood Hazard Areas (designated by FEMA), 2) Areas of Potential Flooding from dam failure inundation, 3) Very High Fire Hazard Severity Zones, 4) Wildland Fire Zones, 5) Earthquake Fault Zones (designated under the Alquist-Priolo Earthquake Fault Zoning Act), and the 6) Liquefaction and Landslide Hazard Zones (designated under the Seismic Hazard Mapping Act).	EQ LS WF FL SEC	Existing Program	Existing Program									City of Lafayette	City provides information in the Lafayette General Plan, including its mapping to all segments of the community. Information, including maps, is available on City's website. Link to ABAG is on City's website.
a-2	a-2	Create incentives for private owners of historic or architecturally significant commercial and industrial buildings to undertake mitigation to levels that will minimize the likelihood that these buildings will need to be demolished after a disaster, particularly if those alterations conform to the federal Secretary of the Interior's Guidelines for Rehabilitation.	EQ LS WF FL SEC											City of Lafayette	Will consider in future downtown planning
ECON - b -		Soft-Story Commercial Buildings Vulnerable to Earthquakes													
b-1	b-1	Require engineered plan sets for voluntary or mandatory soft-story seismic retrofits by private owners until a standard plan set and construction details become available.	EQ											Contra Costa County	Not applicable to City
b-2	b-2	Adopt the 2009 (changed date) International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory soft-story building retrofits for use in city/county building department regulations. In addition, allow use of changes to that standard recommended by SEAC for the 2012 IIBC.	EQ											Contra Costa County	Not applicable to City
b-3	b-3	Work to educate building owners, local government staff, engineers, and contractors on privately-owned soft-story retrofit procedures and incentives using materials such as those developed by ABAG and the City of San Jose (see <a href="http://quake.abag.ca.gov/eqhouse.html">http://quake.abag.ca.gov/eqhouse.html</a> .)	EQ											Contra Costa County	Not applicable to City, but link to ABAG on City's website
b-4	b-4	Conduct an inventory of privately-owned existing or suspected soft-story commercial or industrial structures as a first step in establishing voluntary or mandatory programs for retrofitting these buildings.	EQ											Contra Costa County	Not applicable to City



**Economy Mitigation Strategies**

Strategy Number	2009-2010	2005 Original	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-5	b-5	b-5	b-5	Use the soft-story inventory to require <b>private</b> owners to inform all existing tenants (and <b>prospective</b> tenants prior to signing a lease agreement) that they may work in this type of building.	EQ							✓		Contra Costa County	Not applicable to City
b-6	b-6	b-6	b-6	Use the soft-story inventory to require <b>private</b> owners to inform all existing and <b>prospective</b> tenants that they may need to be prepared to work elsewhere following an earthquake if the building has not been retrofitted.	EQ							✓		Contra Costa County	Not applicable to City
b-7	b-7	b-7	b-7	Investigate and adopt appropriate financial, procedural, and land use incentives (such as parking waivers) for <b>private</b> owners of soft-story buildings to facilitate retrofit such as those described by ABAG (see <a href="http://quake.abag.ca.gov/fixit">http://quake.abag.ca.gov/fixit</a> ).	EQ							✓		Contra Costa County	Not applicable to City
b-8	b-8	b-8	b-8	(reworded) Explore development of State regulations or legislation to require or encourage <b>private</b> owners of soft-story structures to strengthen them.	EQ							✓		Contra Costa County	Not applicable to City
b-9	b-9	b-9	b-9	Provide technical assistance in seismically strengthening <b>privately-owned</b> soft-story structures.	EQ							✓		Contra Costa County	Not applicable to City

Economy Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underscored	Very High - Underscored	Official Program - Becomes Official	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate	Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program, High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	ECON - c	Unreinforced Masonry Buildings in Older Downtown Areas	EQ	Existing Program	Existing Program, Underscored	Very High - Underscored	Official Program - Becomes Official	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate	Not Cost Effective	Not Yet Considered	City of Lafayette	City maintains list; all 4 URM buildings have been mitigated pursuant to Contra Costa County program
c-1	c-1	Continue to actively implement existing State law that requires cities and counties to maintain lists of the addresses of unreinforced masonry buildings and inform private property owners that they own this type of hazardous structure.	EQ											City of Lafayette	City maintains list; all 4 URM buildings have been mitigated pursuant to Contra Costa County program
c-2	c-2	Accelerate retrofitting of privately-owned unreinforced masonry structures that have not been retrofitted, for example, by (a) actively working with owners to obtain structural analyses of their buildings, (b) helping owners obtain retrofit funding, (c) adopting a mandatory (rather than voluntary) retrofit program, and/or (d) applying penalties to owners who show inadequate efforts to upgrade these buildings.	EQ								✓			Contra Costa County	All 4 URM buildings have been mitigated pursuant to Contra Costa County program
c-3	c-3	Require private owners to inform all existing tenants (and prospective tenants prior to signing a lease agreement) that they work in an unreinforced masonry building and the standard to which it may have been retrofitted.	EQ								✓			Contra Costa County	All 4 URM buildings have been mitigated pursuant to Contra Costa County program
c-4	c-4	As required by State law, require private owners to inform all existing tenants that they may need to be prepared to work elsewhere following an earthquake even if the building has been retrofitted, because it has probably been retrofitted to a life-safety standard, not to a standard that will allow occupancy following major earthquakes.	EQ								✓			Contra Costa County	Contra Costa County runs building safety programs
ECON - d	Privately-Owned Structurally Vulnerable Buildings														
d-1	d-1	Inventor non-ductile concrete, tilt-up concrete, and other privately-owned structurally vulnerable buildings.	EQ								✓			Contra Costa County	Not applicable to City
d-2	d-2	Adopt the 2009 International Existing Building Code or the latest applicable standard for the design of voluntary or mandatory retrofit of privately-owned seismically vulnerable buildings.	EQ								✓			Contra Costa County	Not applicable to City
d-3	d-3	Adopt one or more of the following strategies as incentives to encourage retrofitting of privately-owned seismically vulnerable commercial and industrial buildings: (a) waivers or reductions of permit fees, (b) below-market loans, (c) local tax breaks, (d) grants to cover the cost of retrofitting or of a structural analysis, (e) land use (such as parking requirement waivers) and procedural incentives, or (f) technical assistance.	EQ										✓	City of Lafayette	Will consider program in the future
ECON - e	Wildfire and Structural Fires														

Economy Mitigation Strategies

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Official Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Completion (if study), WHY if not same as regional priority, OR Other Comments
e-1	e-1	Increase efforts to reduce hazards in existing private development in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat through improving engineering design and vegetation management for mitigation, appropriate code enforcement, and public education on defensible space mitigation strategies.	WF	✓								City of Lafayette	Lafayette General Plan Safety Element Policies S-4.1, S-4.2; Lafayette Municipal Code Chapter 3-5, Fire Safety
e-2	new	<b>Tie public education on defensible space and a comprehensive defensible space ordinance to a field program of enforcement.</b>	WF							✓		City of Lafayette	Will consider program in the future
e-3	e-2	Require that new privately-owned business and office buildings in high fire hazard areas be constructed of fire-resistant building materials and incorporate fire-resistant design features (such as minimal use of eaves, internal corners, and open first floors) to increase structural survivability and reduce ignitability.	WF							✓		Contra Costa County	Not applicable to City
e-4	e-3	Adopt and amend as needed updated versions of the California Building and Fire Codes so that optimal fire-protection standards are used in construction and renovation projects of private buildings.	WF							✓		Contra Costa County	Not applicable to City
e-5	e-4	Create a mechanism to enforce provisions of the California Building and Fire Codes and other local codes that require the installation of smoke detectors and fire-extinguishing systems on existing privately-owned buildings by making installation a condition of (a) finalizing a permit for any work valued at over a fixed amount and/or (b) on any building over 75 feet in height, and/or (b) as a condition for the transfer of property.	WF							✓		Contra Costa County	Not applicable to City
e-6	e-5	(reworded to more closely match the HSNB strategy) Expand vegetation management programs in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat to more effectively manage the fuel load through roadside collection and chipping, mechanical fuel reduction equipment, selected harvesting, use of goats or other organic methods of fuel reduction, and selected use of controlled burning.	WF								✓	City of Lafayette	Will consider program in the future
e-7	e-6	Establish special funding mechanisms (such as Fire Hazard Abatement Districts or regional bond funding) to fund reduction in fire risk of existing properties through vegetation management that includes reduction of fuel loads, use of defensible space, and fuel breaks.	WF								✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.

Economy Mitigation Strategies

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e-8	e-7	Establish special funding mechanisms (such as Fire Hazard Abatement Districts or regional bond funding) to fund fire-safety inspections of private properties, roving firefighter patrols on high fire-hazard days, and public education efforts.	WF	Existing Program							✓		Contra Costa Fire District	Not applicable to City
e-9	e-8	Compile a list of privately-owned high-rise and high-occupancy buildings that are deemed, due to their age or construction materials, to be particularly susceptible to fire hazards, and determine an expeditious timeline for the fire-safety inspection of all such structures.	WF								✓		Contra Costa Fire District	Not applicable to City
e-10	e-9	Conduct periodic fire-safety inspections of all privately-owned commercial and industrial buildings.	WF								✓		Contra Costa Fire District	Not applicable to City
e-11	e-10	Work with the State Fire Marshall, the California Seismic Safety Commission, Pacific Earthquake Engineering Research Center (PEER), and other experts to identify and manage gas-related fire risks of privately-owned soft-story mixed use buildings that are prone to collapse and occupant entrapment consistent with the natural gas safety recommendations of Seismic Safety Commission Report SSC-02-03. Note - See <a href="http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf">http://www.seismic.ca.gov/pub/CSSC_2002-03_Natural%20Gas%20Safety.pdf</a> . Also note - any values that are installed may need to have both	EQ WF								✓		Contra Costa Fire District	Not applicable to City
e-12	e-11	Ensure that city/county-initiated fire-preventive vegetation-management techniques and practices for creek sides and high-slope areas do not contribute to the landslide and erosion hazard.	WF										City of Lafayette	City's vegetation management and creek maintenance program for public property
e-13	e-12	Work with insurance companies to create a public/private partnership to give a discount on fire insurance premiums to "Forester Certified" Fire Wise landscaping and fire-resistant building materials on private property.	WF									✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.
f-1	f-1	To reduce flood risk, thereby reducing the cost of flood insurance to private property owners, work to qualify for the highest-feasible rating under the Community Rating System of the National Flood Insurance Program.	FL									✓	City of Lafayette	No policy or program at this time regarding highest-feasible rating, but City has program to participate in Nat'l Flood Ins program - General Plan Safety Element Program S-3.2.2.

Economy Mitigation Strategies

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f-2	f-2	Balance the needs for private commercial and industrial development against the risk from potential flood-related hazards.	FL	Existing Program								City of Lafayette	Lafayette General Plan Safety Element Policies S-3.1-3.5; Lafayette Municipal Code Chapter 6-18, Flood Damage Protection
f-3	f-3	Ensure that new private development pays its fair share of improvements to the storm drainage system necessary to accommodate increased flows from the development, or does not increase runoff by draining water to pervious areas or detention facilities.	FL									City of Lafayette	Through development review process
f-4	f-4	Provide sandbags and plastic sheeting to private businesses in anticipation of rainstorms, and deliver those materials to vulnerable populations upon request.	FL									City of Lafayette	Public Works program
f-5	f-5	Provide information to private business on locations for obtaining sandbags and deliver those sandbags to those various locations throughout a city and/or county.	FL									City of Lafayette	Public Works program
f-6	f-6	Apply floodplain management regulations for private development in the floodplain and floodway.	FL									City of Lafayette	Through development review process
f-7	f-7	Encourage private business owners to participate in building elevation programs within flood hazard areas.	FL								✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.
f-8	f-8	As funding becomes available, encourage private business owners to participate in acquisition and relocation programs for areas within floodways.	FL								✓	City of Lafayette	No policy or program at this time. Will consider as part of a General Plan update.
f-9	f-9	Require an annual inspection of approved flood-proofed privately-owned buildings to ensure that (a) all flood-proofing components will operate properly under flood conditions and (b) all responsible personnel are aware of their duties and responsibilities as described in their building's Flood Emergency Operation Plan and Inspection & Maintenance Plan.	FL								✓		Not applicable to City

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2009-2010	ECON-g-1	g-1	LS	✓								City of Lafayette	Lafayette General Plan Safety Element Policies S-1.2 through 1.4; Lafayette Municipal Code Chapter 6-20, Hillside Development; through development review
	g-1	Increase efforts to reduce landslides and erosion in existing and future development by improving applicable code enforcement and use of those appearing in the California Building Code, California Geological Survey Special Report 117 - Guidelines for Evaluating and Mitigating Seismic Hazards in California, American Society of Civil Engineers (ASCE) report Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Landslide Hazards in California, and the California Board for Geologists and Geophysicists Guidelines for Engineering Geologic Reports. Such standards should cover excavation, fill placement, cut-fill transitions, slope stability, drainage and erosion control, slope setbacks, expansive soils, collapsible soils, environmental issues, geological and geotechnical investigations, grading plans and specifications, protection of adjacent properties, and review and permit issuance.											
	g-2	g-2	LS							✓		Contra Costa County	Not applicable to City
	ECON-h-1	h-1	EQ							✓		Contra Costa County	Not applicable to City
	h-1	Continue to require that all new privately-owned commercial and industrial buildings be constructed in compliance with (deleted "structural") requirements of the most recently adopted version of the California Building Code.											
	h-2	h-2	EQ							✓		Contra Costa County	Not applicable to City
	h-3	h-3	EQ SEC							✓		Contra Costa County	Not applicable to City
		Work with private building owners to help them recognize that many strategies that increase earthquake resistance also decrease damage in an explosion. In addition, recognize that ventilation systems can be designed to contain airborne biological agents.											

Economy Mitigation Strategies

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i-1	2009-2010	<p><b>Building Reoccupancy</b></p> <p>Institute a program to encourage owners of private buildings to participate in a program similar to San Francisco's Building Occupancy Resumption Program (BORP). This program permits owners of private buildings to hire qualified structural engineers to create building-specific post-disaster inspection plans and allows these engineers to become automatically deputized as City/County inspectors for these buildings in the event of an earthquake or other disaster.</p> <p>Actively notify private owners of historic or architecturally significant buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.</p> <p>Actively notify owners of <b>educational facility</b> buildings of the availability of the local BORP-type program and encourage them to participate to ensure that appropriately qualified structural engineers are inspecting their buildings, thus reducing the likelihood that the buildings will be inappropriately evaluated following a disaster.</p> <p>Allow private building owners to participate in a BORP-type program as described above, but not actively encourage them to do so.</p> <p>Develop and enforce a <b>repair and reconstruction</b> ordinance to ensure that damaged buildings are repaired in an appropriate and timely manner and retrofitted concurrently. <b>This repair and</b></p> <p>Establish preservation-sensitive measures for the repair and reoccupancy of historically significant privately-owned structures, including requirements for temporary shoring or stabilization where needed, arrangements for consulting with preservationists, and expedited permit procedures for suitable repair or rebuilding of historically or architecturally valuable structures.</p>	EQ LS WF FL SEC	Existing Program	Existing Program, undervalued	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Contra Costa County	Not applicable to City	
i-2			EQ LS WF FL SEC							✓			Contra Costa County	Not applicable to City
i-3			EQ LS WF FL SEC							✓			Contra Costa County	Not applicable to City
i-4			EQ LS WF FL SEC							✓			Contra Costa County	Not applicable to City
i-5			EQ LS WF FL SEC							✓			Contra Costa County	Not applicable to City
i-6			EQ LS WF FL SEC							✓			Contra Costa County	Not applicable to City
ECON-j-1	j-1	Public Education	EQ LS WF FL SEC									City of Lafayette	City's website has link to ABAG	

Economy Mitigation Strategies

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j-2	j-2	Develop printed materials, utilize existing materials (such as developed by FEMA and the American Red Cross), conduct workshops, and/or provide outreach encouraging private businesses' employees to have family disaster plans that include drop-cover-hold earthquake drills, fire and storm evacuation procedures, and shelter-in-place emergency guidelines.	EQ LS WF FL SEC	✓									City of Lafayette	City offices; City newsletter; City's Emergency Preparedness Commissioner's website
j-3	j-3	Develop and print materials, conduct workshops, and provide outreach to Bay Area private businesses focusing on business continuity planning.	EQ LS WF FL SEC								✓		City of Lafayette	No program at this time. Will consider information in City newsletter, website.
j-4	j-4	Inform Bay Area private business owners of mitigation activities, including elevation of appliances above expected flood levels, use of fire-resistant roofing and defensible space in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat, structural retrofitting techniques for older buildings, and use of intelligent grading practices through workshops, publications, and media announcements and events.	WF FL								✓		Contra Costa County	Not applicable to City
j-5	j-5	Sponsor the formation and training of Community Emergency Response Teams (CERT) training for other than your own employees through partnerships with local private businesses. [Note - these programs go by a variety of names in various cities and areas.]	EQ LS WF FL SEC	✓									City of Lafayette	City has CERT program with County
j-6	j-6	Assist private businesses in the development of defensible space through the use of, for example, "tool libraries" for weed abatement tools, roadside collection and/or chipping services (for brush, weeds, and tree branches) in wildland-urban-interface fire-threatened communities or in areas exposed to high-to-extreme fire threat.	WF									✓	City of Lafayette	Will consider providing information on other resources through City newsletter, website
j-7	j-7	Make use of the materials developed by others (such as found on ABAG's web site at <a href="http://quake.abag.ca.gov/business">http://quake.abag.ca.gov/business</a> ) to increase mitigation activities related to earthquakes by groups other than your own agency. ABAG plans to continue to improve the quality of those materials over time.	EQ	✓									City of Lafayette	City website has link to ABAG
j-8	j-8	Develop a "Maintain-a-Drain" campaign, similar to that of the City of Oakland, encouraging private businesses and residents to keep storm drains in their neighborhood free of debris.	FL	✓									City of Lafayette	City's Creek Committee has community creek maintenance programs, information. City participates in County's Clean Water program.



Economy Mitigation Strategies

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - unofficial program	High - Actively Looking for funding needed	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
j-6	j-9	Encourage the formation of a community- and neighborhood-based approach to wildfire education and action through local Fire Safe Councils and the Fire Wise Program. This effort is important because grant funds are currently available to offset costs of specific council-supported projects.	WF								✓	City of Lafayette	No policy or program at this time. Will support programs of other agencies.
j-10	j-10	Encourage private businesses and laboratories handling hazardous materials or pathogens increase security to a level high enough to create a deterrent to crime and terrorism, including active implementation of "cradle-to-grave" tracking systems.	SEC EQ							✓		Contra Costa County	Not applicable to City
j-11	j-11	Encourage joint meetings of security and operations personnel at major private employers to develop innovative ways for these personnel to work together to increase safety and security.	SEC EQ	✓								City of Lafayette	Police meets with banks, other businesses, schools on regular basis
j-12	j-12	Inform private shoreline-property owners of the possible long-term economic threat posed by rising sea levels.	FL							✓			Not applicable to City
j-13	j-13	Distribute appropriate materials related to disaster mitigation and preparedness to private business owners. Appropriate materials are (1) culturally appropriate and (2) suitable for special needs populations. For example, such materials are available on the <a href="http://www.prepnow.org">http://www.prepnow.org</a> website and from non-governmental organizations that work with these communities on an on-going basis.	EQ LS WF FL SEC								✓	City of Lafayette	Will consider providing information on other resources through City newsletter, website

Government Mitigation Strategies

Strategy Number	Strategy Original	2009-2010	2005 Original	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
a-1	a-1	GOVT a-1	a-1	a-1	Assess the vulnerability of critical facilities (such as city halls, fire stations, operations and communications headquarters, community service centers, seaports, and airports) to damage in natural disasters and make recommendations for appropriate mitigation.	EQ LS WF FL									City of Lafayette for City-owned buildings	
a-2	a-2			a-2	Retrofit or replace critical facilities that are shown to be vulnerable to damage in natural disasters.	EQ LS WF FL SEC									City of Lafayette for City-owned buildings	
a-3	a-3			a-3	Clarify to workers in critical facilities and emergency personnel, as well as to elected officials and the public, the extent to which the facilities are expected to perform only at a life safety level (allowing for the safe evacuation of personnel) or are expected to remain functional following an earthquake.	EQ									City of Lafayette	
a-4	a-4			a-4	Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical buildings from being functional after major natural disasters. Such contents and equipment includes computers and servers, phones, files, and other tools used by staff to conduct daily business.	EQ LS WF FL SEC									City of Lafayette	
a-5	a-5			a-5	Encourage joint meetings of security and operations personnel at critical facilities to develop innovative ways for these personnel to work together to increase safety and security.	EQ LS WF FL SEC									City of Lafayette	Through City's emergency preparedness and response training program
a-6	a-6			a-6	When installing micro and/or surveillance cameras around critical public assets tied to web-based software, and develop a surveillance protocol to monitor these cameras, investigate the possibility of using the cameras for the secondary purpose of post-disaster damage assessment.	EQ LS WF FL SEC									City of Lafayette	Not cost-effective for few City-owned facilities
a-7	a-7			a-7	Identify and undertake cost-effective retrofit measures related to security on critical facilities (such as moving and redesigning air intake vents and installing blast-resistant features) when these buildings undergo major renovations related to other natural hazards.	EQ LS WF FL SEC									City of Lafayette	Will consider during future renovations of City facilities

**Government Mitigation Strategies**

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program	Underfunded	Very High - Unofficial Program - Becomes Official	On Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	a-8	Coordinate with the State Division of Safety of Dams to ensure that cities and counties are aware of the timeline for the maintenance and inspection of dams whose failure would impact their jurisdiction.	EQ LS WF FL SEC	Existing Program	Existing Program									EEMUD	Not applicable to City
	a-9	As a secondary focus, assess the vulnerability of non-critical facilities to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.	EQ LS WF FL SEC											Contra Costa County	Not applicable to City
	a-10	Ensure that new government-owned facilities comply with and are subject to the same or more stringent regulations as imposed on privately-owned development.	EQ LS WF FL SEC											City of Lafayette	Public buildings and facilities go through same review process as private development.
	a-11	Comply with all applicable building and fire codes, as well as other regulations (such as state requirements for fault, landslide, and liquefaction investigations in particular mapped areas) when constructing or significantly remodeling government-owned facilities.	EQ LS WF FL SEC											City of Lafayette	Public buildings and facilities go through same review process as private development.
	a-12	Prior to acquisition of property to be used as a critical facility, conduct a study to ensure the absence of significant structural hazards and hazards associated with the building site.	EQ LS WF FL SEC											City of Lafayette	City policy
	a-13 new	Ensure that any regulations imposed on private-owned businesses related to repair and reconstruction (see "Economy Section") are enforced and imposed on local government's own buildings and structures.	EQ LS WF FL SEC											Contra Costa County	Not applicable to City
GOVT - b -	b-1	Maintain and Enhance Local Government's Emergency Recovery Planning	EQ LS WF FL SEC											City of Lafayette	Through the City's ongoing emergency preparedness program
	b-1	Establish a framework and process for pre-event planning for post-event recovery that specifies roles, priorities, and responsibilities of various departments within the local government organization, and that outlines a structure and process for policy-making involving elected officials and appointed advisory committees.	EQ LS WF FL SEC											City of Lafayette	Through the City's ongoing emergency preparedness program
	b-2	Prepare a basic Recovery Plan that outlines the major issues and tasks that are likely to be the key elements of community recovery, as well as integrate this planning into response planning (such as with continuity of operations plans).	EQ LS WF FL SEC											City of Lafayette	Through the City's ongoing emergency preparedness program

**Government Mitigation Strategies**

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Official Program	On Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-3	b-3	Establish a goal for the resumption of local government services that may vary from function to function.	EQ LS WF FL SEC	✓									City of Lafayette	Through the City's ongoing emergency preparedness program
b-4	b-25	Develop a continuity of operations plan that includes back-up storage of vital records, such as plans and back-up procedures to pay employees and vendors if normal finance department operations are disrupted, as well as other essential electronic files.	EQ LS WF FL SEC	✓									City of Lafayette	Through the City's ongoing emergency preparedness program
b-5	new	Plan for the emergency relocation of government-owned facilities critical to recovery, as well as any facilities with known structural deficiencies or in hazardous areas.	EQ LS WF FL SEC	✓									City of Lafayette	The City has constructed a new EOC away from City and Police facilities
<b>GOVT - c - Maintain and Enhance Local Government's Emergency Response Capacity</b>														
c-1	new (old b-4 move d to HSNG a-3)	Develop a plan for short-term and intermediate-term sheltering of your employees.	EQ LS WF FL SEC	✓									City of Lafayette	Through City's ongoing emergency preparedness program
c-2	new	Encourage your employees to have a family disaster plan.	EQ LS WF FL SEC	✓									City of Lafayette	Through City's ongoing emergency preparedness program
c-3	new	Offer CERT/NERT-type training to your employees.	EQ LS WF FL SEC	✓								✓	City of Lafayette	City participates in CERT through County for its volunteers; City employees receive regular emergency preparedness and response training.
c-4	b-5 (a)	Periodically assess the need for new or relocated fire or police stations and other emergency facilities.	EQ LS WF FL SEC	✓									City of Lafayette	The City has constructed a new permanent EOC
c-5	b-5 (b)	Periodically assess the need for changes in staffing levels, as well as for additional or updated supplies, equipment, technologies, and in-service training classes.	EQ LS WF FL SEC	✓									City of Lafayette	The City has constructed a new permanent EOC
c-6	b-6	Ensure that fire, police, and other emergency personnel have adequate radios, breathing apparatuses, protective gear, and other equipment to respond to a major disaster.	EQ LS WF FL SEC	✓									City of Lafayette	Through City's ongoing emergency preparedness program

Government Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very High - Official Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	c-7	Participate in developing and maintaining a system of interoperable communications for first responders from cities, counties, special districts, state, and federal agencies.	EQ LS WF FL SEC	✓								Cities of Lafayette, Orinda, Town of Moraga	Three cities have started an interoperable communications program
	b-7												
	c-8	Harden emergency response communications, including, for example, building redundant capacity into public safety alerting and/or answering points, replacing or hardening microwave and simulcast systems, adding digital encryption for programmable radios, and ensuring a plug-and-play capability for amateur radio.	EQ LS WF FL SEC							✓		Contra Costa County	City participates in County OES program
	b-8												
	c-9	Purchase command vehicles for use as mobile command/EOC vehicles if current vehicles are unsuitable or inadequate.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
	b-9												
	c-10	Maintain the local government's emergency operations center in a fully functional state of readiness.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
	b-10												
	c-11	Expand or participate in expanding traditional disaster exercises involving city and county emergency personnel to include airport and port personnel, transit and infrastructure providers, hospitals, schools, park districts, and major employers.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
	b-11												
	c-12	Maintain and update as necessary the local government's Standardized Emergency Management System (SEMS) Plan and the National Incident Management System (NIMS) Plan, and submit an appropriate NIMSCAST report.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
	b-12												
	c-13	Continue to participate not only in general mutual-aid agreements, but also in agreements with adjoining jurisdictions for cooperative response to fires, floods, earthquakes, and other disasters.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
	b-13												
	c-14	Install alert and warning systems for rapid evacuation or shelter-in-place. Such systems include outdoor sirens and/or reverse-911 calling systems.	EQ LS WF FL SEC							✓		Contra Costa County	City would not have its own system; should be part of countywide system
	b-14												
	c-15	Conduct periodic tests of the alerting and warning system. (deleted some wording)	EQ LS WF FL SEC							✓		Contra Costa County	No stand-alone system in Lafayette
	b-15												
	c-16	Regulate and enforce the location and design of street-address numbers on buildings and minimize the naming of short streets (that are actually driveways) to single homes.	EQ LS WF FL SEC	✓								City of Lafayette, Contra Costa Fire District	Through development review process
	b-16												

Government Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Undersupported	Very High - Undersupported	Official Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	c-17	Monitor weather during times of high fire risk using, for example, weather stations tied into police and fire dispatch centers.	WF	Existing Program							✓		Contra Costa Fire District	Not applicable to City's jurisdiction
	c-18	Establish regional protocols on how to respond to the NOAA Monterey weather forecasts, such as the identifying types of closures, limits on work that could cause ignitions, and prepositioning of suppression forces. A multi-agency coordination of response also helps provide unified messages to the public about how they should respond to these periods of increased fire danger. <b>Response should also be modified based on knowledge of local micro-climates. Local agencies with less risk then may be available for mutual aid.</b>	WF								✓		Contra Costa Fire District	Not applicable to City's jurisdiction
	c-19	Increase local patrolling during periods of high fire weather.	WF								✓		Contra Costa Fire District	Not applicable to City
	c-20	Create and maintain an automated system of rain and flood gauges that is web enabled and publicly-accessible. <b>Work toward creating a coordinated regional system.</b>	FL LS								✓		Regional agencies	Not cost-effective for community of Lafayette's size
	c-21	Place remote sensors in strategic locations for early warning of hazmat releases or use of weapons of mass destruction, <b>understanding that the appropriate early warning strategy depends on the type of problem.</b>	EQ LS WF FL SEC								✓		Regional agencies	Not cost-effective for community of Lafayette's size
	c-22	Review and update, as necessary, procedures pursuant to the <i>State Dam Safety Act</i> for the emergency evacuation of areas located below major water-storage facilities.	EQ LS FL SEC	✓									City of Lafayette	Through City's ongoing emergency preparedness program
	c-23	<b>Improve coordination among cities, counties, and dam owners so that cities and counties can better plan for evacuation of areas the could be inundated if a dam failed, impacting their jurisdiction.</b>	EQ LS FL SEC								✓		Regional agencies	City supports coordination of jurisdictions
	c-24	Develop procedures for the emergency evacuation of areas identified on tsunami evacuation maps as these maps become available.	EQ (TS)								✓			Not applicable to City
	c-25	<b>Support and encourage planning and identification of facilities for the coordination of distribution of water, food, blankets, and other supplies, coordinating this effort with the American Red Cross.</b>	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program	
GOVT	d-1	Participate in National, State, Multi-Jurisdictional and Professional Society Efforts to Identify and Mitigate Hazards	EQ LS WF FL SEC	✓									City of Lafayette	Through City's ongoing emergency preparedness program

Government Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Official Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
d-2	2009-2010												
c-2	2005 Original												
d-2	c-2	Recognize that emergency services is more than the coordination of police and fire response; it also includes planning activities with providers of water, food, energy, transportation, financial, information, and public health services.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program
d-3	c-3	Recognize that a multi-agency approach is needed to mitigate flooding by having flood control districts, cities, counties, and utilities meet at least annually to jointly discuss their capital improvement programs for most effectively reducing the threat of flooding. <b>Work toward making this process more formal to insure that flooding is considered at existing joint-agency meetings.</b>	FL	✓								City of Lafayette	Through City's ongoing emergency preparedness program
d-4	c-4	As new flood-control projects are completed, request that FEMA revise its flood-insurance rate maps and digital Geographic Information System (GIS) data to reflect flood risks as accurately as possible.	FL	✓								City of Lafayette	Through City's ongoing emergency preparedness program
d-5	c-5	Participate in FEMA's National Flood Insurance Program.	FL	✓									City has program to participate in Nat'l Flood Ins program: General Plan Safety Element Program S-3.2.2.
d-6	c-6	Participate in multi-agency efforts to mitigate fire threat, such as the Hills Emergency Forum (in the East Bay), various FireSafe Council programs, and city-utility task forces. <b>Such participation increases a jurisdiction's competitiveness in obtaining grants.</b>	WF							✓		Contra Costa Fire District	Not applicable to City
d-7	c-7	Work with major employers and agencies that handle hazardous materials to coordinate mitigation efforts for the possible release of these materials due to a natural disaster such as an earthquake, flood, fire, or landslide.	EQ LS WF FL SEC							✓		Regional agencies	Not applicable to City
d-8	c-8	Encourage staff to participate in efforts by professional organizations to mitigate earthquake and landslide disaster losses, such as the efforts of the Northern California Chapter of the Earthquake Engineering Research Institute, the East Bay Peninsula Chapter of the International Code Council, the Structural Engineers Association of Northern California, and the American Society of Grading Officials.	EQ LS	✓								City of Lafayette	Through City's ongoing emergency preparedness program and development review training
d-9	c-9	Conduct and/or promote attendance at local or regional hazard conferences and workshops for elected officials and staff to educate them on the critical need for programs in mitigating earthquake, wildfire, flood, and landslide hazards.	EQ LS WF FL SEC	✓								City of Lafayette	Through City's ongoing emergency preparedness program and development review training

**Government Mitigation Strategies**

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, underfunded	Very High - Unofficial Program - Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	d-10 c-10	Cooperate with researchers working on government-funded projects to refine information on hazards, for example, by expediting the permit and approval process for installation of seismic arrays, gravity survey instruments, borehole drilling, fault trenching, landslide mapping, flood modeling, and/or damage data collection.	EQ LS WF FL SEC	Existing Program						✓			Not applicable to City
e-1	e-1	<b>GOVT</b> - e. Take a Lead in Loss and Risk Assessment Activities in the Bay Area to encourage them to adopt a Local Hazard Mitigation Plan and to assist them in integrating it into their overall planning process. <b>RESPONSIBILITY: ABAG only; all others are "not applicable."</b>	EQ LS WF FL DR TS SEC Flu Ag Heat							✓		ABAG	
e-2	e-2	Improve the risk assessment and loss estimation work in the <i>Taming Natural Disasters</i> report and multi-jurisdictional plan related to natural disasters. <b>RESPONSIBILITY: ABAG only; all others are "not applicable."</b>	EQ LS WF FL DR TS Flu Ag Heat							✓		ABAG	



## Education Mitigation Strategies

2009-2010 Strategy		2005 Original Strategy Number		Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program Underfunded	Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
PRIORITY CHECK ONLY ONE															
a-1	a-1	EDUC - a - Focus on Critical Facilities (... Owned by School Districts)	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program Underfunded	Very High - Unofficial Program-Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
a-1	a-1	Assess the vulnerability of critical public education facilities to damage in natural disasters and make recommendations for appropriate mitigation.			EQ LS WF FL SEC							✓		School districts	Not applicable to City
a-2	a-2	Retrofit or replace critical public education facilities that are shown to be vulnerable to damage in natural disasters.			EQ LS WF FL SEC							✓		School districts	Not applicable to City
a-3	a-3	Conduct comprehensive programs to identify and mitigate problems with facility contents, architectural components, and equipment that will prevent critical public education buildings from being functional after major disasters.			EQ LS WF FL SEC							✓		School districts	Not applicable to City
a-4	a-4	As a secondary focus, assess the vulnerability of non-critical educational facilities (that is, those that do not house students) to damage in natural disasters based on occupancy and structural type, make recommendations on priorities for structural improvements or occupancy reductions, and identify potential funding mechanisms.			EQ LS WF FL SEC							✓		School districts	Not applicable to City
a-5	new	Assess the vulnerability of critical private education, pre-school, and day care facilities to damage in natural disasters and make recommendations for appropriate mitigation.			EQ LS WF FL SEC							✓		Contra Costa County	Not applicable to City
a-6	a-5	(Major Reworking) Work with CalEMA and the Division of the State Architect to ensure that there will be an adequate group of Safety Assessment Program (SAP) inspectors trained and deployed by CalEMA to schools for post-disaster inspection. In addition, if a school district is uncomfortable with delays in inspection due to too few SAP inspectors available in catastrophic disasters, formalized arrangements can also be created with those inspectors certified by the Division of the State Architect as construction inspectors to report to the district, assess damage, and determine if the buildings can be reoccupied.			EQ LS WF FL SEC							✓		School districts	Not applicable to City
EDUC - b - Use of Educational Facilities as Emergency Shelters															

Education Mitigation Strategies

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High - Unofficial Program-Becomes Official on Plan	Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	(if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-1	b-1	Work cooperatively with the American Red Cross, cities, counties, and non-profits to set up memoranda of understanding for use of education facilities as emergency shelters following disasters.	EQ LS WF FL SEC								X		School districts	Not applicable to City
b-2	b-2	Work cooperatively to ensure that school district personnel and relevant staff understand and are trained that being designated by the American Red Cross or others as a potential emergency shelter does NOT mean that the school has had a hazard or structural evaluation to ensure that it can be used as a shelter following any specific disaster.	EQ LS WF FL SEC								X			Not applicable for a city
b-3	b-3	Work cooperatively to ensure that school district personnel understand and are trained that they are designated as disaster service workers and must remain at the school until released.	EQ LS WF FL SEC								X			Not applicable for a city
<b>EDUC - C - Actions Related to Disaster Preparedness and Recovery Planning</b>														
c-1	new	Encourage employees of schools to have family disaster plans and conduct mitigation activities in their own homes.	EQ LS WF FL SEC								✓		School districts	Not applicable to City
c-2	c-2	Develop plans, in conjunction with fire jurisdictions, for evacuation or sheltering in place of school children during periods of high fire danger, thereby recognizing that overloading of streets near schools by parents attempting to pick up their children during these periods can restrict access by fire personnel and equipment.	EQ LS WF FL SEC								✓		School districts, Contra Costa Fire District	Not applicable to City
c-3	c-3	Offer the 20-hour basic CERT training to teachers and after-school personnel.	EQ LS WF FL SEC								✓		School districts	Not applicable to City
c-4	c-4	Offer the 20-hour basic Student Emergency Response Training (SERT, rather than CERT) training to middle school and/or high school students as a part of the basic science or civics curriculum, as an after school club, or as a way to earn public service hours.	EQ LS WF FL SEC								✓		School districts	Not applicable to City
c-5	c-5	Offer the 20-hour basic CERT training course through the Adult School system and/or through the Community College system (either using instructors with teaching credentials or by making facilities available for classes not run by school personnel themselves).	EQ LS WF FL SEC								✓		School districts	Not applicable to City

**Education Mitigation Strategies**

2009-2010 Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Very High - Unofficial Program-Becomes Official on Plan	Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	(if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
c-6	c-6	Develop and maintain the capacity for schools to take care of the students for the first 48 hours after a disaster, and notify parents that this capacity exists.	EQ LS WF FL SEC	Existing Program							✓	Not Yet Considered	School districts	Not applicable to City
c-7	new	Develop a continuity of operations and disaster recovery plan using models such as that developed by the University of California Berkeley. (The American Red Cross has a role in promoting this activity, as well, in schools that they plan to use as shelters.)	EQ LS WF FL SEC								✓		School districts	Not applicable to City
<b>EDUC - d- Actions Related to Schools as Conduits for Information to Families About Emergencies</b>														
d-1	c-1	Utilize the unique ability of schools to reach families through educational materials on hazards, mitigation, and preparedness, particularly after disasters and at the beginning of the school year. These efforts will not only make the entire community more disaster-resistant, but speed the return of schools from use as shelters to use as teaching facilities, particularly if coordinated with cities, counties, the American Red Cross and others.	EQ LS WF FL SEC								✓		School districts	Not applicable to City
d-2	c-7	Develop and distribute culturally appropriate materials related to disaster mitigation and preparedness, such as those on the <a href="http://www.preparenow.org">http://www.preparenow.org</a> website.	EQ LS WF FL SEC								✓		School districts	Not applicable to City

Environment Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Priority (CHECK ONLY ONE)	Existing Program	Existing Program, underfunded	Official Program, Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010	ENVI-a-1	Environmental Sustainability and Pollution Reduction Continue to enforce State-mandated requirements, such as the California Environmental Quality Act, to ensure that mitigation activities for hazards, such as DR seismic retrofits and vegetation clearance programs for fire threat, are conducted in a way that reduces environmental degradation such as air quality impacts, noise during construction, and loss of sensitive habitats and species, while respecting the community value of historic preservation.	EQ LS WF FL DR SEC	Existing Program	Existing Program								City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
a-2	a-2	Encourage regulatory agencies to work collaboratively with safety professionals to develop creative mitigation strategies that effectively balance environmental and safety needs, particularly to meet critical wildfire, flood, and earthquake safety levels.	EQ WF FL SEC	Existing Program									City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
a-3	a-3	Continue to enforce and/or comply with State-mandated requirements, such as the California Environmental Quality Act and environmental regulations to ensure that urban development is conducted in a way to minimize air pollution. For example, air pollution levels can lead to global warming, and then to drought, increased vegetation susceptibility to disease (such as pine bark beetle infestations), and associated increased fire hazard.	LS WF FL DR SEC	Existing Program									City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
a-4	a-4	Develop and implement a comprehensive program for watershed management optimizing ecosystem health with water yield to balance water supply, flooding, fire, and erosion concerns.	LS WF FL DR SEC	Existing Program									City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process
a-5	a-5	Balance the need for the smooth flow of storm waters versus the need to maintain wildlife habitat by developing and implementing a comprehensive Streambed Vegetation Management Plan that ensures the efficacy of flood control efforts, mitigates wildfires and maintains the viability of living rivers.	LS WF FL DR	Existing Program									City of Lafayette	Lafayette General Plan Open Space and Conservation Element; through development review process; Lafayette Municipal Code Chapter 5-4, Stormwater Pollution
a-6	a-8	Comply with applicable performance standards of any National Pollutant Discharge Elimination System municipal stormwater permit that seeks to manage increases in stormwater run-off flows from new development and redevelopment construction projects.	FL	Existing Program									City of Lafayette	Lafayette Municipal Code Chapter 5-4, Stormwater Pollution Protection

Environment Mitigation Strategies

Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Official Program, Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
2009-2010 a-7	Enforce and/or comply with the grading, erosion, and sedimentation requirements by prohibiting the discharge of concentrated stormwater flows by other than approved methods that seek to minimize associated pollution.	LS FL	✓								City of Lafayette	Lafayette Municipal Code Chapter 5-4, Stormwater Pollution Protection
a-8	Explore ways to require that hazardous materials stored in the flood zone be elevated or otherwise protected from flood waters.	FL						✓				Not applicable to City
a-9	Enforce and/or comply with the hazardous materials requirements of the State of California Certified Unified Program Agency (CUPA).	EQ LS WF FL SEC						✓				Not applicable to City
a-10	Provide information on hazardous waste disposal and/or drop off locations.	EQ LS WF FL SEC	✓								City of Lafayette	City offices; City website
a-11	When remodeling existing government and infrastructure buildings and facilities, remove asbestos to speed up clean up of buildings so that they can be reoccupied more quickly.	EQ LS WF FL SEC								✓	City of Lafayette	City will comply with asbestos removal requirements
a-12	Develop and implement a program to control invasive and exotic species that contribute to fire and flooding hazards (such as eucalyptus, catails, and cordgrass). This program could include vegetation removal, thinning, or replacement in hazard areas where there is a direct threat to structures.	WF FL	✓								City of Lafayette	Lafayette General Plan Open Space and Conservation Element Policies OS-4, 1 through 4.5; Lafayette Municipal Code Chapter 6-17, Tree Protection
a-13	Enforce provisions under creek protection, stormwater management, and discharge control ordinances designed to keep watercourses free of obstructions and to protect drainage facilities to conform with the Regional Water Quality Control Board's Best Management Practices.	FL	✓								City of Lafayette	Lafayette Municipal Code Chapters 5-4, Stormwater Pollution Protection, and 6-18, Flood Damage Protection
ENVI - b - b-1	Stay informed of scientific information compiled by regional and state sources on the subject of rising sea levels and global warming, especially on additional actions that local governments can take to mitigate this hazard including special design and engineering of government-owned facilities in low-lying areas, such as wastewater treatment plants, ports, and airports.	LS WF FL DR							✓			Not applicable to City
b-2	Inventory global warming emissions in your own local government's operations and in the community, set reduction targets and create an action plan.	LS WF FL DR	✓								City of Lafayette	Climate Action Plan under preparation

Environment Mitigation Strategies

Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Very recent	Unofficial Program, Becomes Official	On Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
b-3	new	Adopt and enforce land-use policies that reduce sprawl, preserve open space, and create compact, walkable urban communities.	LS WF FL DR	✓										City of Lafayette	Lafayette General Plan
b-4	new	Promote transportation options such as bicycle trails, commute trip reduction programs, incentives for car pooling and public transit.	LS WF FL DR	✓										City of Lafayette	Lafayette General Plan, Walkways Plan, Bikeways Plan
b-5	new	Increase the use of clean, alternative energy by, for example, investing in "green tags", advocating for the development of renewable energy resources, recovering landfill methane for energy production, and supporting the use of waste to energy technology.	LS WF FL DR								✓				Not applicable to City
b-6	new	Make energy efficiency a priority through building code improvements, retrofitting city facilities with energy efficient lighting and urging employees to conserve energy and save money.	LS WF FL DR	✓										City of Lafayette	City's Environmental Strategy
b-7	new	Purchase only Energy Star equipment and appliances for local government use.	LS WF FL DR	✓										City of Lafayette	City's purchasing policies
b-8	new	Practice and promote sustainable building practices using the U.S. Green Building Council's LEED program or a similar system.	LS WF FL DR	✓										City of Lafayette	Green building ordinance under preparation
b-9	new	Increase the average fuel efficiency of municipal fleet vehicles; reduce the number of vehicles; launch an employee education program including anti-idling messages; convert diesel vehicles to bio-diesel.	LS WF FL DR								✓				Not cost-effective for city the size of Lafayette
b-10	new	Evaluate opportunities to increase pump efficiency in water and wastewater systems; recover wastewater treatment methane for energy production.	LS WF FL DR								✓				Not applicable to City
b-11	new	Increase recycling rates in local government operations and in the community.	LS WF FL DR								✓			Contra Costa Solid Waste Authority	
b-12	new	Maintain healthy urban forests; promote tree planting to increase shading and to absorb CO2.	LS WF FL DR	✓										City of Lafayette	Lafayette General Plan; through development review process
b-13	new	Help educate the public, schools, other jurisdictions, professional associations, business and industry about reducing global warming pollution.	LS WF FL DR	✓										City of Lafayette	City's Environmental Strategy

**Environment Mitigation Strategies**

Strategy Number	2005 Original Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Official Program, Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other Comments
c-1	b-1	Maintain a variety of crops in rural areas of the region to increase agricultural diversity and crop resiliency. <b>RESPONSIBLE AGENCIES: County Offices of the Agricultural Commissioner.</b>	Ag DR SEC	Existing Program						✓			Not applicable to City
c-2	b-2	Promote and maintain the public-private partnerships dedicated to preventing the introduction of agricultural pests into regionally-significant crops, such as the glassy-winged sharpshooter into vineyards. <b>RESPONSIBLE AGENCIES: County Offices of the Agricultural Commissioner.</b>	Ag DR SEC							✓			Not applicable to City
c-3	b-4	Encourage livestock operators to develop an early-warning system to detect animals with communicable diseases (due to natural causes or bioterrorism). <b>RESPONSIBLE AGENCIES: County Health Department and Office of the County Agricultural Commissioner.</b>	Ag Flu SEC							✓			Not applicable to City
deleted	b-3	(deleted since not a disaster-related strategy)											





Land Use Mitigation Strategies

Strategy Number	Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, undervalued	Official Program, on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other review process
2009-2010	a-8	Require that local government reviews of geologic and engineering studies are conducted by appropriately trained and credentialed personnel.	EQ	✓								City of Lafayette	Through development review process
<b>LAND - b - Wildland and Structural Fires</b>													
	b-1	Review new development proposals to ensure that they incorporate required and appropriate fire-mitigation measures, including adequate provisions for occupant evacuation and access by emergency response personnel and equipment.	WF	✓								City of Lafayette	Through development review process
	b-2	Develop a clear legislative and regulatory framework at both the state and local levels to manage the wildland-urban-interface consistent with <i>Fire Wise</i> and sustainable community principles.	WF							✓		City of Lafayette	Will consider as part of a General Plan update
<b>LAND - c - Flooding</b>													
	c-1	Establish and enforce requirements for new development so that site-specific designs and source-control techniques are used to manage peak stormwater runoff flows and impacts from increased runoff volumes.	FL	✓								City of Lafayette	Through development review process
	c-2	Incorporate FEMA guidelines and suggested activities into local government plans and procedures for managing flood hazards.	FL	✓								City of Lafayette	Through development review process
	c-3	Provide an institutional mechanism to ensure that development proposals adjacent to floodways and in floodplains are referred to flood control districts and wastewater agencies for review and comment (consistent with the NPDES program).	FL	✓								City of Lafayette	Through development review process
	c-4	Establish and enforce regulations concerning new construction (and major improvements to existing structures) within flood zones in order to be in compliance with federal requirements and, thus, be a participant in the Community Rating System of the <i>National Flood Insurance Program</i> .	FL	✓								City of Lafayette	Through development review process
	c-5	Encourage new development near floodways to incorporate a buffer zone or setback from that floodway to allow for changes in stormwater flows in the watershed over time.	FL	✓								City of Lafayette	Lafayette Municipal Code Chapter 6-18, Flood Damage Protection
	c-6	For purposes of creating an improved hazard mitigation plan for the region as a whole, ABAG, and Bay Area cities and counties, jointly request geographically defined repetitive flooding loss data from FEMA for their own jurisdictions.	FL										
<b>LAND - d - Landslides and Erosion</b>													

Land Use Mitigation Strategies

Strategy Number	Specific Mitigation Strategy	Applicable Hazards	Existing Program	Existing Program, Underfunded	Official Program, Becomes Official on Plan Adoption, no funding needed	High - Actively Looking for Funding	Moderate	Under Study	Not Applicable, or Not Appropriate, or Not Cost Effective	Not Yet Considered	Responsible Agency or Department (Required if Existing Program, Existing Program under funded, Very High, High, or Under Study)	Ordinance or Resolution # (if existing program), Estimated Cost and Possible Funding Agency (if high priority), Estimated Date of Completion (if study), WHY if not same as regional priority, OR Other
d-1	Establish and enforce provisions (under subdivision ordinances or other means) that geotechnical and soil-hazard investigations be conducted and filed to prevent grading from creating unstable slopes, and that any necessary corrective actions be taken prior to development approval.	LS	✓								City of Lafayette	Through development review process
d-2	Require that local government reviews of these investigations are conducted by appropriately trained and credentialed personnel.	LS	✓								City of Lafayette	Through development review process
d-3	Establish and enforce grading, erosion, and sedimentation ordinances by requiring, under certain conditions, grading permits and plans to control erosion and sedimentation prior to development approval.	LS	✓								City of Lafayette	Through development review process
d-4	Establish and enforce provisions under the creek protection, storm water management, and discharge control ordinances designed to control erosion and sedimentation.	LS	✓								City of Lafayette	Through development review process
d-5	Establish requirements in zoning ordinances to address hillside development constraints, especially in areas of existing landslides.	LS	✓								City of Lafayette	Through development review process
<b>LAND - e - Hillside - Multi-Hazard</b>												
e-1	For new development, require a buffer zone between residential properties and landslide or wildfire hazard areas.	LS WF	✓								City of Lafayette	City's General Plan policies and zoning setback regulations provide buffer areas between residential properties and sensitive areas
e-2	Discourage, add additional mitigation strategies, or prevent new construction or major remodels on slopes greater than a set percentage, such as 15%, due to landslide or wildfire hazard concerns.	LS WF	✓								City of Lafayette	Lafayette General Plan Safety Element Policies S-1.1, S-1.2, S-4.1, S-4.2; Lafayette Municipal Code Chapter 6-20, Hillside Development
<b>LAND - f - Smart Growth - Revitalize Urban Areas and Promote Sustainability</b>												
f-1	Prioritize retrofit of infrastructure that serves urban areas (or urban services areas) over constructing new infrastructure to serve outlying areas.	EQ LS WF FL DR SEC	✓						✓			Lafayette is virtually built out with remaining development sites considered as infill
f-2	Work to retrofit homes in older urban neighborhoods to provide safe housing close to job centers.	EQ LS WF FL DR SEC	✓								City of Lafayette	Through development review process

Land Use Mitigation Strategies

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2009-2010	f-3	Work to retrofit older downtown areas and redevelopment districts to protect architectural diversity and promote disaster-resistance.	EQ LS WF FL SEC	Existing Program								City of Lafayette	Through development review process
	f-4	Work with non-profits and through other mechanisms to protect as open space those areas susceptible to extreme hazards (such as through land acquisition, zoning, and designation as priority conservation areas).	EQ LS WF FL SEC	Existing Program								City of Lafayette	Through development review process
	f-5	Strive to preserve existing buffers between development and existing users of large amounts of hazardous materials, such as major industry, due to the potential for catastrophic releases or fires due to an earthquake, accident, or terrorism. (Flooding might also result in release or spread of these materials; however, it is unlikely.) In areas where buffers do not exist or cannot be created, provide alternative mitigation.	EQ LS WF FL SEC							✓			Not applicable to City
LAND g-1	new	Hazard Abatement Districts Use hazard abatement districts as a funding mechanism to ensure that mitigation strategies are implemented and enforced over time.	EQ LS WF FL								✓		Will consider in the future