



City of Dublin, California

COMPREHENSIVE EMERGENCY MANAGEMENT PLAN

Annex

**2010 LOCAL HAZARD
MITIGATION PLAN
ANNEX**



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INTRODUCTION

From a population of approximately 14,300 in 1982, the City of Dublin has grown to a resident population of 48,821 (per the California Department of Finance, 2010). The City has consistently been one of the fastest growing cities in Alameda County for the past several years, and the City is projected to have a total population of between 65,000 and 70,000 at build out. Dublin is a safe, well-educated, and high-profile family community with an excellent quality of life. The City has a Fiscal Year 2010/2011 operating budget of \$51,253,540 and allocates 200.45 fulltime equivalent positions, of which 81.5 are City employees and 118.95 are contract employees. It owns and operates a Civic Center, Library, Senior Center, Community Center, and Heritage Center encompassing more than 120,000 square feet of space.

The City of Dublin is located within the Tri-Valley region at the intersection of Interstates 580 and 680. Since incorporation, the City's population has progressively increased as both residents and businesses have found the benefits of calling Dublin home. Dublin, incorporated in February 1982, is located approximately 350 miles north of Los Angeles and 35 miles east of San Francisco. Dublin is 14.59 square miles in area, and a map of the City is included as **Exhibit A**. The City of Dublin is generally bounded by the City of San Ramon to the north, Castro Valley to the west, the City of Pleasanton to the south, and the City of Livermore to the east.

Interstates 580 and 680 provide east-west and north-south access, respectively, with the City receiving Bay Area Rapid Transit (BART) System service along the I-580 corridor. BART is one of the San Francisco Bay Area's most vital transportation links, providing access to the entire Bay Area. The eastern terminus for the blue line is at the Dublin/Pleasanton Station with a future West Dublin/Pleasanton Station under construction. WHEELS, a bus line operated by the Livermore Amador Valley Transit Authority, operates local routes serving the Cities of Dublin, Pleasanton, and Livermore.

The City of Dublin has experienced disasters and emergency situations of varying natures over its lifetime of incorporation, which includes earthquakes, such as the Loma Prieta Quake in 1989, hazardous materials spills, localized flooding, etc. A Local Hazard Mitigation Plan provides the City with a framework within which it can work to assess hazards and specific risks and ameliorate such vulnerabilities pre-disaster. Planning for hazards and implementing mitigation measures prior to a disaster event reduces the impact that the event will have on the community.

This Local Hazard Mitigation Plan has been prepared in coordination with the Association of Bay Area Governments (ABAG) led effort to create Multi-Jurisdictional Local Hazard Mitigation Plans for 2010.



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THE REGIONAL PLANNING PROCESS

The City of Dublin participated in various ABAG workshops, conferences, and meetings, to provide input, direction, and review of the regional planning process, including the following meetings:

- ABAG Regional Planning Committee meetings (Aug. 6, 2008, Dec. 3, 2008, Apr. 1, 2009).
- One (1) County/City Workshop.

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 Dublin has provided written and oral comments on the multi-jurisdictional plan and provided information on facilities that are defined as “critical” to ABAG. The City has also held a publicly noticed meeting on September 29, 2009 to solicit feedback on its mitigation strategies and solicited public input on these strategies on the City’s website.

THE LOCAL PLANNING PROCESS

Representatives from multiple City departments met to identify and prioritize appropriate mitigation strategies. Personnel involved in these meetings included senior management and staff from the City Manager’s Office, Fire Department, Community Development Department, and Public Works. The group was made up of the Building Official, City Engineer, Disaster Preparedness Coordinator, and Fire Marshal, and was formed at the direction of the City Manager.

For the hazard mitigation planning process, the City’s Disaster Preparedness Coordinator was tasked as project manager for the development of the 2010 Local Hazard Mitigation Plan. The project coordinator reviewed the initial information from ABAG and FEMA, identified key issues in the 2010 Strategies Matrix, and coordinated departmental reviews of the Strategies Matrix.

At the project team’s first meeting, general priorities and the appropriate department to review were identified. Subsequent meetings identified mitigation strategies, prioritized said strategies, and reviewed preliminary budgets and potential funding sources for strategies designated as “High” priority for City-owned-and-operated facilities. Department subject matter experts contributed their knowledge and expertise throughout the process, which includes the following key Staff Members:

- Building Official. Reviewed basic plan and strategies pertaining to current and future development efforts.
- Fire Marshal. Reviewed mitigation strategies pertaining to Fire Prevention programs.



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- City Engineer. Provided current and future mitigation activities pertaining to services provided by the Public Works Department.

The City’s Executive Team (City Manager, Assistant City Manager, Administrative Services Director, Community Development Director, Parks & Community Services Director, Police Chief, and Public Works Director) also reviewed and provided input on the recommended strategies a various points in the process and at project completion.

Review and Incorporation of Existing Information

The following documents were reviewed and incorporated into this annex in addition to those documents referenced in Appendix A of the regional plan.

Existing plans, studies, reports, and technical information	Method of incorporation into the jurisdiction annex
Capital Improvement Program	Mitigation strategies
Comprehensive Emergency Management Plan	Hazards Assessment
General Plan, Seismic Safety and Safety Element	Mitigation Policies and Priorities

Process of Updating Plan Sections

Dublin did not participate in the plan in 2005. This annex is not an update.

Public Meetings

Opportunity for public comments on the DRAFT mitigation strategies was provided at a public meeting at the Dublin Civic Center on September 29, 2009 and advertised on the City of Dublin website and a notice was placed in the Valley Times with information about the meeting. The draft mitigation strategies were also published on the City of Dublin website for public viewing. A copy of public hearing notice is included as **Exhibit B** to the City of Dublin 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 City of Dublin General Plan.

HAZARDS ASSESSMENT

The ABAG Multi-Jurisdictional Local Hazard Mitigation Plan, to which this is an annex, lists nine hazards that impact the Bay Area, five related to earthquakes (faulting,



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shaking, earthquake-induced landslides, liquefaction, and tsunamis) and four related to weather (flooding, landslides, wildfires, and drought). Except for tsunamis, these hazards also impact this community. Tsunamis do not impact the City of Dublin because the City is more than 30 miles from the Pacific Ocean with an intervening mountain range. Maps of these hazards and risks are shown on the ABAG website at <http://quake.abag.ca.gov/mitigation/>.

The City of Dublin 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), landslides (including unstable earth), and wildfires pose a significant risk for potential loss. The City of Dublin does not face any natural disasters not listed in the ABAG multi-jurisdictional plan.

While the City of Dublin has undertaken a number of general hazard mapping activities since the first Safety Element was prepared by the City of Dublin, 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

The City of Dublin has experienced various local incidents over the past 25 plus years of its incorporation, including earthquakes, floods, droughts, wildfires, and severe storms. While other jurisdictions within the area have experienced more severe impacts from these incidents, the City of Dublin has been relatively unscathed due to its geographic location and age of its infrastructure. The Loma Prieta Earthquake of 1989 is an example of the kind of large scale disaster which can strike the Bay Area and affect the City of Dublin.

Information on State and Federally declared disasters in the City of Dublin can be found at <http://quake.abag.ca.gov/mitigation/ThePlan-D-2010.pdf>

In addition to the declared disasters noted in Appendix D, locally significant incidents that have also impacted the City of Dublin in the last several years include:

- Weather, Summer Heat, Winter Cold, and Winter Storms. During weather extremes, Dublin monitors the situation and responds to mitigate the effects on residents and public and private property. For example, during times of extreme heat or cold, as has occurred regularly over the past few years, the City releases information to its residents about cooling/warming centers that are available to the public. In addition, the winter storms in Fiscal Year 2005-2006, resulted in damages to the City with a FEMA declaration for the City and County.
- May 2009 – Vehicle vs. Tanker Truck. Gasoline spill in City of Dublin storm-drain system. City had partial activation.



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RISK ASSESSMENT

Urban Land Exposure

The City of Dublin examined the hazard exposure of the City’s urban land based on information in ABAG’s website at <http://quake.abag.ca.gov/mitigation/landuse>. The “2005 Existing Land Use with 2009 Mapping” file was used for this evaluation.

In general, the hazard exposure of the City of Dublin is increasing over time as the amount of urban land increases. (In the last 5 years, 1,685 acres of land has become urban). The following table describes the exposure of urban land within the City of Dublin to the various hazards.

Exposure (acres of urban land)			
Hazard	2005	2010	Change
<i>Total Acres of Urban Land</i>	5,237	6,922	1,685
Earthquake Faulting (within CGS zone) ¹	412	384	(28)
Earthquake Shaking (within highest two shaking categories) ²	4,194	5,297	1,103
Earthquake-Induced Landslides (within CGS study zone) ³	<i>Not Evaluated</i>	384	N/A
Liquefaction (within moderate, high, or very high liquefaction susceptibility)	2,546	3,477	931
Flooding (within 100 year floodplain)	196	230	34
Flooding (within 500 year floodplain)	323	588	265
Landslides (within areas of existing landslides)	223	663	440
Wildfire (subject to high, very high, or extreme wildfire threat)	694	1,666	972
Wildland-Urban Interface Fire Threat	2,455	3,278	823
Dam Inundation (within inundation zone)	728	752	24
Tsunamis ⁴ (within inundation area)	not applicable		
Drought ⁵	5,237	6,922	1,685

¹ Decrease due to better and more accurate mapping.

² In large part because the Hayward, Greenville, and Calaveras fault systems run through the County.

³ The California Geological Survey continues to map Alameda County and added the Livermore-Altamont area in late 2009. Though some areas of the County have not yet been completely mapped, the densely populated areas in Alameda County are mostly done.

⁴ Dublin is not located near a coastal zone subject to Tsunamis.

⁵ The entire City of Dublin is subject to drought.



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Infrastructure Exposure

The City of Dublin 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 157 miles of roadway in the City of Dublin, the following are exposed to the various hazards analyzed.

Exposure (miles of infrastructure)						
Hazard	Roadway		Transit		Rail	
	2005	2010	2005	2010	2005	2010
<i>Total Miles of Infrastructure</i>	157	193	0	0	0	0
Earthquake Shaking (within highest two shaking categories)	136	163	0	0	0	0
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	80	126	0	0	0	0
Liquefaction Hazard (within CGS study zone) ¹	<i>Not Evaluated</i>	114	0	0	0	0
Earthquake-Induced Landslides (within CGS study zone) ²	<i>Not Evaluated</i>	1	0	0	0	0
Earthquake Faulting (within CGS zone)	14	16	0	0	0	0
Flooding (within 100 year floodplain)	5	16	0	0	0	0
Flooding (within 500 year floodplain)	10	19	0	0	0	0
Landslides (within areas of existing landslides)	8	10	0	0	0	0
Wildfires (subject to high, very high, or extreme wildfire threat)	19	22	0	0	0	0
Wildland-Urban Interface Fire Threat	81	96	0	0	0	0
Dam Inundation (within inundation zone)	20	28	0	0	0	0
Tsunamis ³	not applicable					
Drought ⁴	not applicable					

¹ 78 miles of roadway are outside the area that has been evaluated by CGS for this hazard

² 191 miles of roadway are outside the area that has been evaluated by CGS for this hazard

³ Dublin is not located near a coastal zone subject to tsunamis.

⁴ Drought is not a hazard for roadways.



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

Finally, the City examined the hazard exposure of critical health care facilities and schools located within the City of Dublin, and City-owned buildings based on the information on ABAG's website at <http://quake.abag.ca.gov/mitigation/cf2010>. The City of Dublin 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.



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Exposure (number of facility types)								
Hazard	Hospitals		Schools		Locally owned bridges and interchanges		Locally owned critical facilities	
	2005	2010	2005	2010	2005	2010	2005	2010
<i>Total Number of Facilities</i>	0	0	12	16	1	2	43	137
Earthquake Shaking (within highest two shaking categories)	0	0	12	14	1	2	40	122
Liquefaction Susceptibility (within moderate, high, or very high liquefaction susceptibility)	0	0	8	11	0	2	11	102
Liquefaction Hazard (within CGS study zone)	0	0	0	10	0	2	1	87
Earthquake-Induced Landslides (within CGS study zone) ¹	0	0	0	0	0	0	1	2
Earthquake Faulting (within CGS zone)	0	0	1	1	0	0	2	15
Flooding (within 100 year floodplain)	0	0	0	0	0	1	2	3
Flooding (within 500 year floodplain)	0	0	0	0	2	3	2	26
Landslides (within areas of existing landslides)	0	0	0	2	0	0	2	3
Wildfires (subject to high, very high, or extreme wildfire threat)	0	0	0	1	0	0	6	10
Wildland-Urban Interface Fire Threat	0	0	9	8	1	2	27	97
Dam Inundation	0	0	1	1	1	1	6	20
Tsunamis ² (within inundation area)	-	-	-	-	-	-	-	-
Drought ³	-	-	-	-	-	-	-	-

¹ 16 schools and 135 locally-owned facilities are outside the area that has been evaluated by CGS for this hazard.

² Dublin is not located near a coastal zone subject to tsunamis.

³ Drought will not affect locally owned facilities directly.



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Repetitive Loss Properties

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

Other Risks

The City 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. The City does not anticipate identifying new risks from natural hazards, however, and ABAG data confirms that Dublin will face limited impacts from new concerns like sea level rise.

NATIONAL FLOOD INSURANCE PROGRAM

The City of Dublin has participated in the National Flood Insurance Program since 1983. The City is not a current participant in the Community Rating System, but will evaluate the benefits of participating in the program.

MITIGATION GOALS

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 ABAG MJ-LHMP 2005 plan and is the goal of the City of Dublin in designing its mitigation program.

MITIGATION ACTIVITIES AND PRIORITIES

Evaluation of Progress from 2005 Plan

City of Dublin did not participate in 2005 Plan.

Future Mitigation Actions and Priorities

As a participant in the 2010 ABAG multi-jurisdictional planning process, City of Dublin Staff helped in the development and review of the comprehensive list of mitigation strategies in the overall multi-jurisdictional plan. The decision on priority was made based on a variety of criteria, not simply on an economic cost-benefit analysis. These criteria include being technically and administratively feasible, politically acceptable, socially appropriate, legal, economically sound, and not harmful to the environment or our heritage.



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The City's draft priorities (Exhibit C) were submitted to the City Council for review. The draft priorities will be provided to the Dublin City Council for adoption pending approval of this LHMP by FEMA.

The City's planning team also prioritized specific mitigation tasks for the next five years. This list includes implementation process, funding strategy, and approximate time frame. These strategies were identified during the review of the ABAG regional matrix by City Staff (City Manager's Office, Building, Fire, and Public Works). The five specific strategies the City expects to complete are as follows:

- The City will continue annual sponsorship of Community Emergency Response Team (CERT) training (INFR-g-6, HSNB-k-6, ECON-j-5, GOVT-c-3, EDUC-c-3). The Fire Department is the lead agency for this activity. The City will accomplish this task with existing resources. This is an annual project.
 - Hazards addressed: EQ, LS, WF, FL, DR, SEC
- The City will continue to recruit community volunteers on an annual basis to remove litter and debris from the City's storm drain system (Econ-J-8). The City Manager's Office is the lead agency for this project. The City will accomplish this task with existing resources. This is an annual project.
 - Hazards addressed: FL
- The City will install, where appropriate, trash capture devices at storm drain inlets (INFR-d-7). The Public Works Department is the lead agency for this project. The City will seek grant funding to offset the cost of installation. Possible grant opportunities exist with ABAG also with the State of California's Used Oil Recycling Program. This is a five-year project.
 - Hazards addressed: FL
- The City will consider adoption of the 2010 California Building Code. The code will become effective January 1, 2011 and will apply to all construction activity within the City boundaries (HSNG-f-1, HSNB-g-6, ECON-e-3). The Community Development Department is the lead agency for this project. The City will accomplish this task with existing resources.
 - Hazards addressed: EQ, WF
- The City Council will consider adoption of a Climate Action Plan, which includes an inventory of community and municipal greenhouse gas emissions and sets a greenhouse gas reduction target (ENVI-b-2). The City Manager's Office is the lead agency for this project. The City will accomplish this task with existing resources and will be completed by 2011.
 - Hazards addressed: LS, WF, FL, DR

On-Going Mitigation Strategy Programs

The City has many on-going mitigation programs that help create a more disaster-resistant region. The following list highlights some of the programs identified as *Existing Programs* in the mitigation strategy spreadsheet. Others are on-going programs that are



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currently under-funded. It is the City's priority to find additional funding to sustain these on-going programs over time.

- 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 (INFR-b-8).
- 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 (INFR-d-7).
- Maintain and update the City'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);
- 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).

INCORPORATION INTO EXISTING PLANNING MECHANISMS

The City has several planning mechanisms which include:

- General plan safety element
- Capital Improvements Plan

The City has a Safety Element in its General Plan that includes a discussion of fire, earthquake, flooding, and landslide hazards. This plan will be adopted as an implementation appendix to the Safety Element. In addition, the City enforces the requirements of the California Environmental Quality Act (CEQA), which, since 1988, requires mitigation for identified natural hazards. The City 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 by the Disaster Mitigation Act of 2000, the City of Dublin will update this LHMP 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.



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The City Manager's Office will ensure that monitoring of this Annex will occur. The plan will be monitored on an on-going basis by the City's Disaster Preparedness Coordinator. 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 City's Executive Team at least once a year in April. At that meeting, the Executive Team members will focus on evaluating the Annex in light of technological and political changes during the past year or other significant events. The City Manager in consultation with Executive Team leaders will be responsible for determining if the plan should be updated.

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

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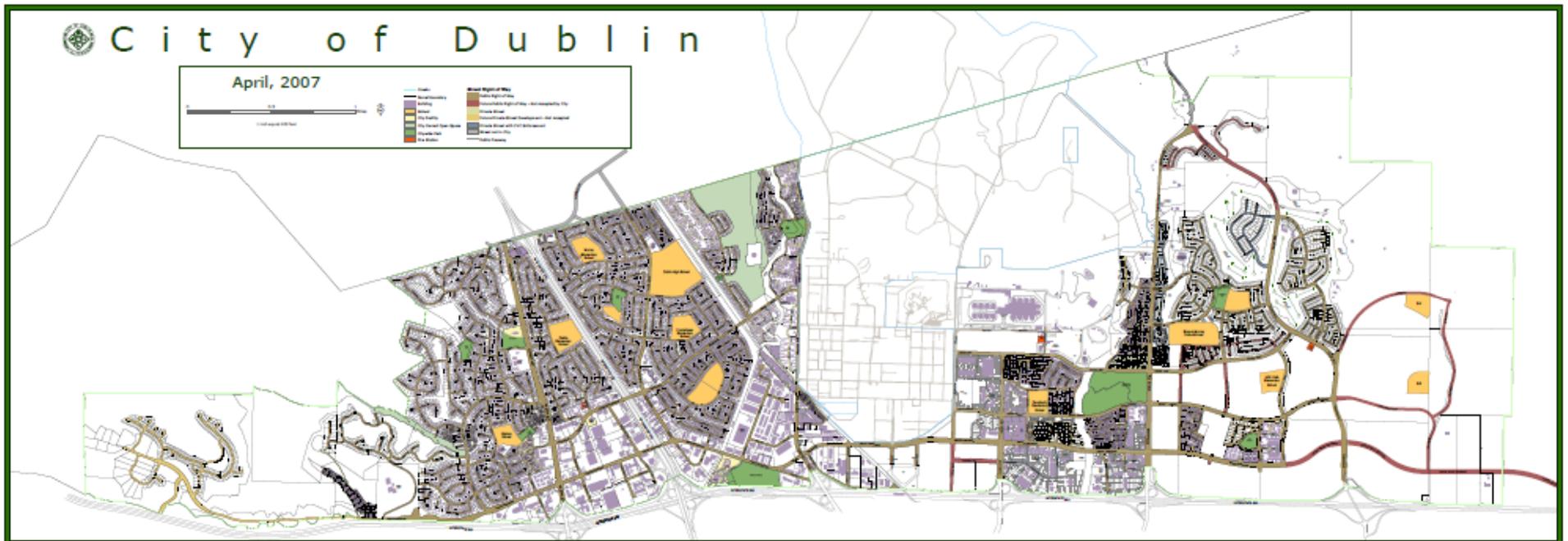
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Exhibit A – City of Dublin Map





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Exhibit B – Public Meeting Announcements

NOTICE OF INFORMATIONAL MEETING
CITY OF DUBLIN
LOCAL HAZARD MITIGATION PLAN

Notice is hereby given that the City of Dublin will hold an informational meeting in the Regional Meeting Room at 100 Civic Plaza, Dublin, California at 7:30 p.m., September 29, 2009. This meeting will provide the public with an opportunity to comment on the City's hazard mitigation strategies as part of its participation in the Association of Bay Area Governments (ABAG) Local Hazard Mitigation Plan. The list of mitigation strategies can be accessed from the City's website at www.ci.dublin.ca.us for perusal prior to the meeting. Further information on this meeting may be obtained in the City Manager's Office in the Civic Center, or it can be obtained by telephone at (925) 833-6650.

All interested parties are invited to attend said meeting and express opinions about the City's Hazard Mitigation Strategies.

CITY CONTACT INFORMATION:

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Exhibit C – City of Dublin Mitigation Strategies

Included on Multi-Jurisdictional Plan CD and at
<http://quake.abag.ca.gov/mitigation/strategy.html>