

# *City of Brisbane*

## *Planning Commission Agenda Report*

**TO:** Planning Commission For the Meeting 1/10/19

**FROM:** Ken Johnson, Senior Planner, via John Swiecki, Community Development Director

**SUBJECT:** **Draft Health and Safety Element;** General Plan Amendment GPA-2-18; Proposal of the City of Brisbane to amend the Health and Safety Element of the General Plan to incorporate the previously adopted Local Hazard Mitigation Plan by reference; City of Brisbane, applicant; citywide

**REQUEST:** This application is to update the Community Health and Safety Element (Safety Element), one of the seven mandatory elements of the City's General Plan. This update has been initiated to incorporate the previously adopted Local Hazard Mitigation Plan (LHMP) into the Safety Element to comply with State Assembly Bill 2140. This legislation requires local jurisdictions to either cross reference the LHMP in the safety element, or include the LHMP language specific to AB 2140 as part of the safety element in order to be fully eligible for disaster relief funding. This proposal is to include the LHMP by reference, as further described below.

**RECOMMENDATION:** Recommend that the City Council adopt the draft update of the Community Health and Safety Element, via adoption of Resolution GPA-2-18.

**ENVIRONMENTAL DETERMINATION:** Exempt by General Rule, per State CEQA Guidelines Section 15061(b)3, in that CEQA applies only to projects which have the potential for causing a significant effect on the environment and this proposed action would have no possibility for such significant effect.

**APPLICABLE CODE SECTIONS:** State law contains requirements applicable to LHMPs and the link to safety elements, codified in Sections 8685.9 and 65302.6(a) of the Government Code.

**BACKGROUND:** The proposed action is tied to the federal Disaster Mitigation Act of 2000, which authorized the "*President to establish a program of technical and financial assistance to States and local governments to assist in the implementation of pre-disaster hazard mitigation measures that are cost effective and are designed to reduce injuries, loss of life, and property damage and destruction...*" Following that Act, the city

participated in the preparation of a hazard mitigation plan. It was developed in partnership with the Association of Bay Area Governments (ABAG) and approved by the Federal Emergency Management Agency (FEMA) in 2005.

In 2006, the state adopted Assembly Bill (AB) 2140 which added provisions specifying what is to be included in a local hazard mitigation plan and required linkage between the local jurisdiction's LHMP and the safety element of the general plan for federal funding eligibility. AB 2140 requires the City to adopt a local hazard mitigation plan as part of the General Plan Safety Element in order to qualify for certain funding through the California Disaster Assistance Act.

In 2015, a coalition of San Mateo County cities and special districts embarked on an update of the San Mateo County Hazard Mitigation Plan and it was completed in July of 2016. Each member city or district participated in the update of the plan and adopted their respective local sections and it was collectively approved by FEMA and the California Office of Emergency Services (CalOES). Brisbane's City Council adopted that update to the LHMP on September 15, 2016. Ongoing amendments to the plan are scheduled for 5 years intervals, although that may be accelerated if needed. The complete San Mateo County Hazard Mitigation Plan may be referenced from the City's Office of Emergency Services webpage: <https://brisbaneca.org/office-of-emergency-services>. A copy of the Brisbane specific section is also attached.

**DISCUSSION:** This proposal will incorporate the LHMP into the Safety Element, satisfying the requirements of AB 2140 to ensure that Brisbane can receive the full amount of available state or federal funding in the event of a disaster. As indicated above, in 2015 the individual agencies within San Mateo County chose to prepare a county-wide plan. The LHMP is intended to be a "living document" with a shorter update time-frame of 5 years versus the typically longer general plan update cycles. It also contains greater detail than is typically provided in a general plan. Given these factors, the proposed amendment to the Safety Element incorporates the 2016 LHMP and subsequent amendments by reference only, rather than incorporate the detailed language into the element.

To incorporate the LHMP into the Safety Element by reference, staff has provided draft explanatory text and new policy and program language within the Emergency Preparedness section of the Safety Element. This inclusion by reference is also stated in the attached draft City Council resolution. Policy 148 and Program 148a would read as follows:

*"Policy 148 Maintain the Emergency Operations Plan and continue to participate in the maintenance of the County-wide Hazard Mitigation plan as the central planning and management tools for disaster preparedness, response and recovery.*

*Program 148a: Through continuing participation in the coalition of San Mateo County cities and special districts, maintain the Local Hazard Mitigation Plan*

*(LHMP) consistent with State Assembly Bill 2140 and applicable subsequent state and/or federal legislation. The LHMP is included by reference as part of this General Plan element and should be consulted when addressing known hazards to ensure the general health and safety of people within Brisbane.”*

On a related note, the Emergency Operations Plan (EOP) is also referenced in Policy 148. The EOP provides a detailed plan, or “road map” for the City’s readiness, response and recovery in the event of an emergency. Following on Policy 148, Program 148b is also shown with clarifying revisions to address the EOP’s on-going purpose and updates, to be consistent with the LHMP. Please see the attached draft of the Safety Element for further details on Program 148b. Note that the City Emergency Services Director has indicated that an update to the EOP is scheduled to go to Council for adoption in January as a separate matter.

The proposed amendments provided with the draft Safety Element, as shown with the blue-lined section, are discrete and do not impact other sections of the Safety Element or the other elements of the General Plan.

Since other sections of the Safety Element will not be modified by this amendment, they have not been included as attachments to this report. The entire Safety Element and the General Plan as a whole may be referenced on-line at <https://brisbaneca.org/general-plan>. The specific section to be amended is provided along with the draft resolution. A blue-lined version is also provided, showing the tracked proposed changes between the previously adopted general plan text and that proposed.

#### **ATTACHMENTS:**

- A. Draft Resolution GPA-2-18 (including the Draft City Council Resolution and Draft Updated Safety Element excerpt)
- B. Blue-lined Comparison to the 1994 General Plan Community Health and Safety Element, Emergency Preparedness Section
- C. Brisbane’s Adopted Local Hazard Mitigation Plan, dated July 2016

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# ATTACHMENT A

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# ATTACHMENT A

Draft - RESOLUTION GPA-2-18  
**A RESOLUTION OF THE PLANNING COMMISSION**  
RECOMMENDING THAT THE CITY COUNCIL  
AMEND THE COMMUNITY HEALTH AND SAFETY ELEMENT  
OF THE GENERAL PLAN  
TO INCORPORATE THE CITY OF BRISBANE'S  
LOCAL HAZARD MITIGATION PLAN INTO THE ELEMENT

WHEREAS, consistent with the federal Disaster Mitigation Act of 2000, State Assembly Bill (AB) 2140 requires cities to adopt the Local Hazard Mitigation Plan (LHMP) into the Safety Element of the General Plan, by either cross reference or by integration of the two documents; and

WHEREAS, In 2015, a coalition of San Mateo County cities and special districts, including the City of Brisbane, updated the county-wide Hazard Mitigation Plan, dated July 2016, with each member participating in the preparation and adopting their respective local sections; and

WHEREAS, on September 15, 2016, City Council adopted Brisbane's LHMP, its section of the San Mateo County Hazard Mitigation Plan, dated July 2016; and

WHEREAS, the collectively adopted San Mateo County Hazard Mitigation Plan was subsequently approved by FEMA and the California Office of Emergency Services (CalOES); and

WHEREAS, the Planning Commission reviewed and considered the staff memorandum relating to said application, and the written and oral evidence presented to the Planning Commission; and

WHEREAS, the Planning Commission's recommended update to the Emergency Preparedness section of the Community Health and Safety Element and the minutes of the Planning Commission meeting of January 10<sup>th</sup>, 2019 are attached and incorporated by reference as part of this resolution; and

WHEREAS, the Planning Commission finds that the proposed amendment is exempt from the California Environmental Quality Act by General Rule, per State CEQA Guidelines Section 15061(b)3, in that CEQA applies only to projects which have the potential for causing a significant effect on the environment and this proposed action would have no possibility for such significant effect; and

NOW, THEREFORE, based upon the evidence presented, both written and oral, the Planning Commission of the City of Brisbane hereby RECOMMENDS that the City Council adopt the attached update to the Community Health and Safety Element of the General Plan, which would include adoption by reference of the LHMP as part of the Safety Element and including any subsequent LHMPs adopted by the Brisbane City Council and approved by FEMA and Cal OES; and.

ADOPTED this tenth day of January, 2019, by the following vote:

AYES:

NOES:

ABSENT:

\_\_\_\_\_  
Coleen Mackin  
Chairperson

ATTEST:

\_\_\_\_\_  
JOHN A. SWIECKI, Community Development Director



Draft  
RESOLUTION \_\_\_\_\_

**A RESOLUTION OF THE CITY COUNCIL  
OF THE CITY OF BRISBANE,  
WITHIN SAN MATEO COUNTY, CALIFORNIA,  
TO AMEND THE COMMUNITY HEALTH AND SAFETY ELEMENT  
OF THE GENERAL PLAN  
TO INCORPORATE THE CITY OF BRISBANE'S  
LOCAL HAZARD MITIGATION PLAN INTO THE ELEMENT**

**WHEREAS**, consistent with the federal Disaster Mitigation Act of 2000, State Assembly Bill (AB) 2140 requires cities to adopt the Local Hazard Mitigation Plan (LHMP) into the Community Health and Safety Element (Safety Element) of the General Plan, by either cross reference or by integration of the two documents, in order to qualify for the maximum amount of disaster aid through the California Disaster Assistance Act; and

**WHEREAS**, the City of Brisbane adopted the Local Hazard Mitigation Plan (LHMP) on September 16, 2016, as part of the San Mateo County Hazard Mitigation Plan, dated July 2016, and was subsequently approved by the Federal Emergency Management Agency (FEMA) and the California Office of Emergency Services (CalOES). The plan provides guidance and insight to the hazards that exist in the City of Brisbane and suggests possible mitigation measures; and

**WHEREAS**, the Brisbane Planning Commission conducted a duly noticed public hearing on January 10<sup>th</sup>, 2019 on the proposed General Plan amendment to incorporate the City of Brisbane's previously adopted LHMP into the Safety Element, by reference; and

**WHEREAS**, on January 10<sup>th</sup>, 2019, the Planning Commission considered all pertinent testimony, written and oral, and adopted Planning Commission Resolution GPA-2-18, recommending that the City Council adopt the amendment to Section X.1 Emergency Preparedness of the Safety Element, which includes adoption by reference of the LHMP as part of the Safety Element and any subsequent LHMPs adopted by the Brisbane City Council and approved by FEMA and Cal OES; and

**WHEREAS**, the City Council held a public hearing on the Safety Element on \_\_\_\_\_, 2019, and considered the testimony presented and reviewed the Planning Commission's recommendation and the Planning Commission's minutes of its meeting, which is incorporated herein by reference.

**NOW, THEREFORE, BE IT RESOLVED** that the City Council of the City of Brisbane finds as follows:

The adoption of the update to the Safety Element is exempt from the California Environmental Quality Act by General Rule, per State CEQA Guidelines Section 15061(b)3, in that CEQA applies only to projects which have the potential for causing a significant effect on the environment and this proposed action would have no possibility for such significant effect;

The update to Section X.1, the Emergency Preparedness section of the Safety Element, as described above, has been prepared consistent with state law;

The update to the Emergency Preparedness section of the Safety Element does not make substantive changes to goals, policies, programs, standards, or maps of the Safety Element, but is to incorporate by reference, the City of Brisbane's LHMP.

The update to the Emergency Preparedness section of the Safety Element supersedes that previously adopted section; and

**BE IT FURTHER RESOLVED** by the City Council of the City of Brisbane that the 2019 update to the Safety Element is hereby adopted.

\_\_\_\_\_  
Madison Davis, Mayor

I hereby certify that the foregoing Resolution \_\_\_\_\_ was duly and regularly adopted at a regular meeting of the Brisbane City Council on \_\_\_\_\_, 2019, by the following vote:

AYES:

NOES:

\_\_\_\_\_  
Ingrid Padilla, City Clerk

# PROPOSED GENERAL PLAN AMENDMENT GPA-2-18

## CHAPTER X - COMMUNITY HEALTH AND SAFETY (EXCERPT)

### X.1 EMERGENCY PREPAREDNESS

Emergency preparedness is critical for the well-being of Brisbane. Even though it is a small city, Brisbane's location in the San Francisco Bay Area puts it at risk for potential disasters, such as airplane crashes, major fires and hazardous materials incidents, in addition to earthquakes, landslides and floods. With limited access points and the physical barriers created by the Bay and the Mountain, it is necessary for the City to think carefully and plan well for the safety of its citizens.

Brisbane has developed an Emergency Operations Plan, also referred to as an Emergency Management Plan<sup>(1)(9)</sup>. That plan is updated regularly and provides procedures and establishes responsibilities for managing both manmade and natural disasters. It provides directions on evacuating the City, providing shelter and basic necessities, and on emergency communications and field responses. The Emergency Management Plan works in concert with a number of multi-agency mutual aid plans and with local volunteer efforts.

One such multi-agency effort is in the preparation of the County-wide Hazard Mitigation Plan<sup>(10)</sup>. That plan responds to the federal mandates for emergency readiness provided in the Disaster Mitigation Act of 2000. The Hazard Mitigation Plan was prepared through a coalition of San Mateo county cities and special districts, to pool resources and create a uniform and coordinated hazard mitigation strategy across the county. That coordinated effort also helps ensure eligibility for federal grant funding. Individual agencies are responsible for participation in the preparation and adoption of their respective sections by all the jurisdictional partners, the plan is then subject to approval by the California Office of Emergency Services (CalOES) and the Federal Emergency Management Agency (FEMA). At the time of this writing, the latest Hazard Mitigation Plan was adopted in 2015 and it is scheduled for updates on a 5-year basis. This plan may also be referred to as the Local Hazard Mitigation Plan (LHMP), since , while it is a county-wide plan, it is also specific to the individual jurisdictions.

An Emergency Operations Center (EOC) has been built into City Hall. Regular training sessions and drills are conducted at the EOC using the Emergency Operations Plan. Field exercises are also held to maintain a state of readiness. (Refer to Safety background report (SA-1) for more information.)

The following policies address Emergency Preparedness:

**Policy 148**     **Maintain the Emergency Operations Plan and continue to participate in the maintenance of the County-wide Hazard Mitigation plan as the central planning and management tools for disaster preparedness, response and recovery.**

*Program 148a: Through continuing participation in the coalition of San Mateo County cities and special districts, maintain the Local Hazard Mitigation Plan (LHMP) consistent with State Assembly Bill 2140 and applicable subsequent state and/or federal legislation. The LHMP is included by reference as part of this General Plan element and should be consulted when addressing known hazards to ensure the general health and safety of people within Brisbane.*

*Program 148b: Update the Emergency Operations Plan as necessary and appropriate and consistent with the Local Hazard Mitigation Plan and maintain a state of readiness. This includes but is not limited to the following:*

- i. Provide emergency response training to staff and volunteers.*
- ii. Update and refine the City's evacuation plan, as necessary.(2)*
- iii. Maintain the operations center in a state of readiness for an emergency response*
- iv. Be prepared to supplement City-owned equipment with that available from the private sector.*
- v. Periodically hold exercises, including evacuation drills, using the instructions in the Plan.*
- vi. Utilize the Community Emergency Volunteers to provide community support and to assist emergency personnel during a disaster.*
- vii. Purchase and maintain necessary emergency equipment.*
  - i. Provide periodic information to citizens about the Plan.*
  - ii. Develop materials and hold meetings to train and advise on emergency preparations that individuals, families and businesses can make toward their personal safety.*
  - iii. Develop disaster plans for all City facilities, for example, the Community Center and City Hall.*
  - iv. Encourage public preparedness through the dissemination of literature and by presenting CPR and first aid classes.*

- v. *Work with the Brisbane School District to plan for the provision of emergency services to District facilities in Brisbane.*
- vi. *Coordinate with the evacuation plans of surrounding cities affecting U. S. 101 and Bayshore Boulevard to facilitate traffic flow through Brisbane in times of emergency.*

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# ATTACHMENT B

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## PROPOSED GENERAL PLAN AMENDMENT GPA-2-18

### CHAPTER X - COMMUNITY HEALTH AND SAFETY (EXCERPT)

#### X.1 EMERGENCY PREPAREDNESS

Emergency preparedness is critical for the well-being of Brisbane. Even though it is a small city, Brisbane's location in the San Francisco Bay Area puts it at risk for potential disasters, such as airplane crashes, major fires and hazardous materials incidents, in addition to earthquakes, landslides and floods. With limited access points and the physical barriers created by the Bay and the Mountain, it is necessary for the City to think carefully and plan well for the safety of its citizens.

Brisbane has developed an [Emergency Management Plan<sup>\(4\)</sup>-Emergency Operations Plan, also referred to as an Emergency Management Plan<sup>\(1\)\(9\)</sup>](#). ~~That plan is updated -which is~~ regularly updated. ~~The Plan and~~ provides procedures and establishes responsibilities for managing ~~any both manmade and natural~~ disasters. It provides directions on evacuating the City, providing shelter and basic necessities, and on emergency communications and field responses. The Emergency Management Plan works in concert with a number of multi-agency mutual aid plans and with local volunteer efforts.

[One such multi-agency effort is in the preparation of the County-wide Hazard Mitigation Plan<sup>\(10\)</sup>. That plan responds to the federal mandates for emergency readiness provided in the Disaster Mitigation Act of 2000. The Hazard Mitigation Plan was prepared through a coalition of San Mateo county cities and special districts, to pool resources and create a uniform and coordinated hazard mitigation strategy across the county. That coordinated effort also helps ensure eligibility for federal grant funding. Individual agencies are responsible for participation in the preparation and adoption of their respective sections by all the jurisdictional partners, the plan is then subject to approval by the California Office of Emergency Services \(CalOES\) and the Federal Emergency Management Agency \(FEMA\). At the time of this writing, the latest Hazard Mitigation Plan was adopted in 2015 and it is scheduled for updates on a 5-year basis. This plan may also be referred to as the Local Hazard Mitigation Plan \(LHMP\), since , while it is a county-wide plan, it is also specific to the individual jurisdictions.](#)

An ~~emergency operations center~~ [Emergency Operations Center \(EOC\)](#) has been built into [City Hall](#) ~~the new Fire Station on Bayshore Boulevard. , and r~~ Regular training sessions and drills are conducted at the ~~center~~ [EOC](#) using the [Emergency Operations Plan](#). Field exercises are also held to maintain a state of readiness. (Refer to Safety background report (SA-1) for more information.)

The following policies address Emergency Preparedness:

**Policy 148** [Maintain the ~~Emergency Management Plan~~ ~~Emergency Operations Plan and continue to participate in the maintenance of the County-wide Hazard~~](#)

**Mitigation plan** as the central planning and management tools for disaster **preparedness, response and recovery.**

*Program 148a: Through continuing participation in the coalition of San Mateo County cities and special districts, maintain the Local Hazard Mitigation Plan (LHMP) consistent with State Assembly Bill 2140 and applicable subsequent state and/or federal legislation. The LHMP is included by reference as part of this General Plan element and should be consulted when addressing known hazards to ensure the general health and safety of people within Brisbane.*

*Program ~~148a~~148b: Update the Emergency Operations Plan as necessary and appropriate and consistent with the Local Hazard Mitigation Plan and ~~train staff and volunteers~~ maintain a state of readiness. This includes but is not limited to the following:*

- i. Provide emergency response training to staff and volunteers.*
  - ~~ii.~~ Program 148b: Update and refine the City's evacuation plan, as necessary.(2)*
  - ~~ii.~~iii. Program 148c: Maintain the operations center in a state of readiness for an emergency response*
  - ~~iii.~~iv. Program 148d: Be prepared to supplement City-owned equipment with that available from the private sector.*
  - ~~iv.~~v. Program 148e: Periodically hold exercises, including evacuation drills, using the instructions in the Plan.*
  - ~~v.~~vi. Program 148f: Utilize the Community Emergency Volunteers to provide community support and to assist emergency personnel during a disaster.*
  - ~~vi.~~vii. Program 148g: Purchase and maintain necessary emergency equipment.*
  - i. Program 148h: Provide periodic information to citizens about the Plan.*
  - ii. Program 148i: Develop materials and hold meetings to train and advise on emergency preparations that individuals, families and businesses can make toward their personal safety.*
  - iii. Program 148j: Develop disaster plans for all City facilities, for example, the Community Center and City Hall.*
  - iv. Program 148k: Encourage public preparedness through the dissemination of literature and by presenting CPR and first aid classes.*
- Program 148l: Encourage community members to participate in the Police and Fire Reserves.*

- v. ~~Program 148m:~~ *Work with the Brisbane School District to plan for the provision of emergency services to District facilities in Brisbane.*
  
- vi. ~~Program 148n:~~ *Coordinate with the evacuation plans of surrounding cities affecting U. S. 101 and Bayshore Boulevard to ~~ensure~~ facilitate traffic flow through Brisbane in times of emergency.*

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## Chapter 4.

# City of Brisbane

### 4.1 Hazard Mitigation Plan Point of Contact

<b>Primary Point of Contact</b>	<b>Alternate Point of Contact</b>
Randy Breault, Director - Public Works & OES	Ken Johnson, Senior Planner
50 Park Place	50 Park Place
Brisbane, CA 94005	Brisbane, CA 94005
Telephone: 415-508-2131	Telephone 415-508-2123
e-mail address: rbreault@ci.brisbane.ca.us	e-mail address: kjohnson@ci.brisbane.ca.us

### 4.2 Jurisdiction Profile

The following is a summary of key information about the jurisdiction and its history:

- ❖ **Date of Incorporation**—November 27, 1961.
- ❖ **Current Population**— 4,699 (as of January 1, 2016 – CA DOF)
- ❖ **Population Growth**—The population of Brisbane grew 8.9-percent between the 2010 U.S. Census population of 4,282 and the estimated projection from the California Department of Finance for January 1, 2016. The Association of Bay Area Governments (ABAG)’s Projections 2009 predicts that Brisbane’s population will grow to 5,300 in 2020, and to 7,700 in 2035.
- ❖ **Location and Description**—The city is located on the western edge of San Francisco Bay, with a western boundary generally delineated by San Bruno Mountain. Neighboring agencies to the north include Daly City and the City & County of San Francisco. South San Francisco is at the city’s southern limit. Although the city’s total land base is listed as 20.44 sq. miles, 17 sq. miles of this amount is covered by the San Francisco Bay; the city’s eastern boundary with Contra Costa County is located in the Bay. The city is commonly identified as being located at latitude 37.69°N longitude 122.39°W.
- ❖ **Brief History**— Brisbane was originally part of the Rancho Canada de Guadalupe la Visitacion y Rodeo Viejo, a large tract of land that included Guadalupe Valley, the Bayshore District of Daly City, the Visitacion Valley District of San Francisco and San Bruno Mountain. Visitacion City, as Brisbane was originally known, was surveyed in 1908, adjacent to a new Southern Pacific Railroad line that offered a faster and more direct route to San Francisco. The town site remained largely undeveloped for many years, largely due to the “Panic of 1907,” a nationwide financial banking crisis/economic recession. During the 1920s, the area’s name was changed to Brisbane. Growth occurred slowly – by 1940, the town had grown to a population of just 2,500. The subject of home rule and city formation was a controversial subject among Brisbane residents during the 1940s and 1950s with some residents desiring a stronger voice in local politics, while others were concerned about losing their town’s close-knit charm to another layer of government. Finally, an incorporation committee was formed in 1960, and after six months of study, recommended that the town vote to incorporate



a 2.5 square mile area. On September 12, 1961, the residents of Brisbane supported the incorporation committee's recommendations, with 710 residents voting in favor of incorporation and 296 opposed.

- ❖ **Climate**— Brisbane's climate is mild during summer when temperatures tend to be in the 60's and cool during winter when temperatures tend to be in the 50's. The warmest month of the year is September with an average maximum temperature of 72.70 degrees Fahrenheit, while the coldest month of the year is January with an average minimum temperature of 42.90 degrees Fahrenheit. Temperature variations between night and day tend to be limited during summer with a difference that can reach 16 degrees Fahrenheit, and fairly limited during winter with an average difference of 13 degrees Fahrenheit.

The annual average precipitation at Brisbane is 20.11 inches. Winter months tend to be wetter than summer months. The wettest month of the year is January with an average rainfall of 4.45 Inches. Brisbane's relative location to San Bruno Mountain tends to deflect seasonal fog to the north and south away from the city.

- ❖ **Governing Body Format**—Council/Manager (five member City Council elected at large; Mayor is chosen every year by the Council). The City Manager is appointed by the City Council as Chief Administrator. The City has two standing commissions and three committees whose members are appointed by the City council. A full description of the Council, Commissions, and Departments can be found under the "City Government" tab at [www.brisbaneca.org](http://www.brisbaneca.org). The City Council will by Resolution adopt the final approved version of the Brisbane Annex to the San Mateo County LHMP. The City's Office of Emergency Services will oversee the implementation and regular update of the plan.
- ❖ **Development Trends**— Anticipated development levels are low to moderate for the 5-year plan period, and that development would primarily occur as infill. A total of 389 potential infill housing sites were identified through either current zoning or rezoning in the City's 2015-2022 Housing Element. The primary opportunity for new housing has been identified at the City's center. The City is currently undertaking efforts to develop a precise plan and establish zoning at the City's center, adjacent to the Community Park and the existing downtown neighborhood commercial districts, to allow for redevelopment of warehouse sites to residential and mixed use (i.e. Parkside at Brisbane Precise Plan). That would include 228 of the 389 units identified in the Housing Element. Similarly, there are a limited number of commercial sites that remain vacant and may potentially be developed as infill over the next 5 years. These primarily consist of three large, vacant sites within the Sierra Point subarea, east of U.S. Highway 101, two of which received planning entitlements several years ago but have not yet applied for building permits. These two sites combined would include approximately 1 million square feet of research and development and commercial office. In addition, along Bayshore Boulevard, there are a number of smaller sites that could potentially accommodate commercial development, but due to site constraints, interest in development of these sites has been low. Finally, the City is currently processing a programmatic Environmental Impact Report for the Brisbane Baylands, a roughly 600-acre former railyard and landfill site located between U.S. 101 and Bayshore Boulevard, comprising most of the northern part of the City. The applicant's proposal would include approximately 7 million square feet of in commercial, retail, office, institutional, R &D and entertainment uses and 4,434 housing units. The study of alternatives to the applicant's proposal are also part of that EIR and these would have either similar or less





development intensity. However, the EIR has not yet been certified and entitlements have not been granted by the City. Given the scale of the development and the stage in the entitlement process, it is not anticipated that development of the Baylands would begin within this plan period.

### 4.3 Capability Assessment

An assessment of legal and regulatory capabilities is presented in Table 4-1. An assessment of fiscal capabilities is presented in Table 4-2. An assessment of administrative and technical capabilities is presented in Table 4-3. Information on National Flood Insurance Program (NFIP) compliance is presented in Table 4-4. Classifications under various community mitigation programs are presented in Table 4-5. An assessment of education and outreach capabilities is presented in Table 4-6.

TABLE 4-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
Building Code <i>Comment: Title 15 of Brisbane Municipal Code (BMC), first adopted 1989 with regular revisions thereafter (latest 4/7/16)</i>	Yes	No	Yes
Zoning Code <i>Comment: Title 17 BMC first adopted 1998 with regular revisions thereafter (latest revision 4/21/16)</i>	Yes	No	Yes
Subdivisions <i>Comment: Title 16 BMC first adopted 1982 with regular revisions thereafter (latest revision 10/7/13)</i>	Yes	No	Yes
Stormwater Management <i>Comment: Chapter 13.06 BMC first adopted 1998 with regular revisions thereafter 1994 (latest revision 3/19/02)</i>	Yes	No	Yes
Post-Disaster Recovery <i>Comment: Chapter 2.28 BMC first adopted 1975 with regular revisions thereafter (latest revision 1/18/11)</i>	Yes	No	Yes
Real Estate Disclosure <i>Comment: CA. State Civil Code 1102 requires full disclosure on Natural hazard Exposure of the sale/re-sale of all real property.</i>	No	No	Yes
Growth Management <i>Comment: General Plan, 1994</i>	Yes	No	Yes
Site Plan Review <i>Comment: multiple chapters in Title 15 BMC provide site plan review requirements</i>	Yes	No	Yes
Environmental Protection <i>Comment: the city complies with state (CEQA) and federal requirements (NEPA)</i>	Yes	No	Yes
Flood Damage Prevention <i>Comment: Chapter 15.56 BMC first adopted 1988 with regular revisions thereafter (latest revision 2/23/15)</i>	Yes	No	Yes
Emergency Management <i>Comment: Chapter 2.28 BMC first adopted 1975 with regular revisions thereafter (latest revision 1/18/11)</i>	Yes	No	Yes
Climate Change <i>Comment: Climate Action Plan adopted 2015</i>	Yes	No	No



TABLE 4-1. LEGAL AND REGULATORY CAPABILITY

	Local Authority	Other Jurisdiction Authority	State Mandated
Other <i>Comment: currently participating in county-led Sea Level Rise Vulnerability study</i>	No	Yes	No
General or Comprehensive Plan <i>Is the plan equipped to provide linkage to this mitigation plan?</i> <i>Comment: The Conservation Element, Housing Element, and the Safety Element of the General Plan provide appropriate linkage to the LHMP</i>	Yes	No	Yes
Capital Improvement Plan <i>What types of capital facilities does the plan address?</i> <i>How often is the plan updated?</i> <i>Comment: The CIP covers all public facilities under the city's jurisdiction. The CIP is updated annually.</i>	Yes	No	No
Floodplain or Watershed Plan <i>Comment: 2003 Storm Drainage Master Plan</i>	Yes	No	No
Stormwater Plan <i>Comment: 2003 Storm Drainage Master Plan</i>	Yes	No	No
Habitat Conservation Plan <i>Comment: Significant portions of Brisbane fall within the San Bruno Mountain HCP established in 1982</i>	No	Yes	No
Economic Development Plan <i>Comment: Chapter 4 "Local Economic Development" of the 1994 General Plan</i>	Yes	No	Yes
Shoreline Management Plan <i>Comment: managed by the San Francisco Bay Conservation and Development Commission, created in 1965</i>	No	Yes	No
Community Wildfire Protection Plan <i>Comment: North County Fire Authority 2004 Wildland Pre-Fire Attack Plan</i>	No	Yes	No
Forest Management Plan <i>Comment: 2007 Vegetation Management Strategic Plan and Street Tree Inventory Summary Report</i>	Yes	No	No
Climate Action Plan <i>Comment: Climate Action Plan adopted 2015</i>	Yes	No	No
Other <i>Comment:</i>	No	No	No
Comprehensive Emergency Management Plan <i>Comment: 2015 Emergency Operations Plan (EOP)</i>	Yes	No	No
Threat & Hazard Identification & Risk Assessment <i>Comment: Appendix to 2015 EOP - completed by San Mateo County OES</i>	No	Yes	No
Post-Disaster Recovery Plan <i>Comment: 2015 Emergency Operations Plan (EOP)</i>	Yes	No	No
Continuity of Operations Plan <i>Comment: 2015 Emergency Operations Plan (EOP)</i>	Yes	No	No
Public Health Plan <i>Comment: San Mateo County Environmental Health has countywide responsibility for development of this plan</i>	No	Yes	No





TABLE 4-2. FISCAL CAPABILITY

Financial Resources	Accessible or Eligible to Use?
Community Development Block Grants	No
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for Specific Purposes	Yes - per requirements of CA Prop 218
User Fees for Water, Sewer, Gas or Electric Service	Yes - various fees across the utilities
Incur Debt through General Obligation Bonds	Yes
Incur Debt through Special Tax Bonds	Yes
Incur Debt through Private Activity Bonds	Yes
Withhold Public Expenditures in Hazard-Prone Areas	Yes, but no withholdings enacted
State-Sponsored Grant Programs	Yes (e.g., CalOES HMGP)
Development Impact Fees for Homebuyers or Developers	Yes
Other	No

TABLE 4-3. ADMINISTRATIVE AND TECHNICAL CAPABILITY

Staff/Personnel Resources	Available?	Department/Agency/Position
Planners or engineers with knowledge of land development and land management practices	Yes	Public Works - Director Community Development - Director
Engineers or professionals trained in building or infrastructure construction practices	Yes	Public Works Director Community Development - Building Official
Planners or engineers with an understanding of natural hazards	Yes	Public Works - Director Community Development - Director
Staff with training in benefit/cost analysis	Yes	Public Works - Senior Civil Engineer
Surveyors	Yes	All surveying provided under contract
Staff capable of making substantial damage estimates	Yes	Public Works - Director Public Works - Senior Civil Engineer
Personnel skilled or trained in GIS applications	Yes	Public Works - Engineering Technician
Scientist familiar with natural hazards in local area	Yes	Utilize resources of local USGS staff
Emergency manager	Yes	Office of Emergency Services
Grant writers	Yes	Administrative Services - Management Analyst

TABLE 4-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
When did the community enter the NFIP?	3/9/83
When did the Flood Insurance Rate maps become effective?	3/29/83
What local department is responsible for floodplain management?	Public Works
Who is your floodplain administrator? (department/position)	Community Development/Building Official



TABLE 4-4. NATIONAL FLOOD INSURANCE PROGRAM COMPLIANCE

Criteria	Response
<ul style="list-style-type: none"> <li>Is this a primary or auxiliary role?</li> </ul>	Auxiliary
Are any certified floodplain managers on staff in your jurisdiction?	No
What is the date of adoption of your flood damage prevention ordinance?	Latest revision 2/23/15
<ul style="list-style-type: none"> <li>Does your floodplain management program meet or exceed minimum requirements?</li> </ul>	Meet
When was the most recent Community Assistance Visit or Community Assistance Contact?	4/25/14
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed?	No
Do your flood hazard maps adequately address the flood risk within your jurisdiction?	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program?	No
Does your jurisdiction participate in the Community Rating System (CRS)?	No
<ul style="list-style-type: none"> <li>If not, is your jurisdiction interested in joining the CRS program?</li> </ul>	No
How many Flood Insurance policies are in force in your jurisdiction?	26
<ul style="list-style-type: none"> <li>What is the insurance in force?</li> <li>What is the premium in force?</li> </ul>	\$12,650,000 \$86,400
How many total loss claims have been filed in your jurisdiction?	3
<ul style="list-style-type: none"> <li>How many claims were closed without payment/are still open?</li> <li>What were the total payments for losses?</li> </ul>	2 \$5,216.07

TABLE 4-5. COMMUNITY CLASSIFICATIONS

	Participating?	Classification	Date Classified
Community Rating System	No	N/A	N/A
Building Code Effectiveness Grading Schedule	No	N/A	N/A
Public Protection	No	N/A	N/A
Storm Ready	No	N/A	N/A
NWS Weather Ready Nation Ambassador	Yes	N/A	N/A

TABLE 4-6. EDUCATION AND OUTREACH

Criteria	Response
Do you have a Public Information Officer or Communications Office?	Yes - Senior Management Analyst in Administrative Services
Do you have personnel skilled or trained in website development?	Yes - Senior Management Analyst in Administrative Services
Do you have hazard mitigation information available on your website?	Yes





TABLE 4-6. EDUCATION AND OUTREACH

Criteria	Response
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	On OES department site
Do you utilize social media for hazard mitigation education and outreach?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	Regular updates are provided in our weekly blog with links to the main website. The city's website hosted the community survey for this LHMP update.
Do you have any citizen boards or commissions that address issues related to hazard mitigation?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly specify.</li> </ul>	Emergency Services Council
Do you have any other programs already in place that could be used to communicate hazard-related information?	Yes
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	Weekly blog and website
Do you have any established warning systems for hazard events?	No
<ul style="list-style-type: none"> <li>If yes, please briefly describe.</li> </ul>	N/A

## 4.4 Integration with Other Planning Initiatives

The following describe the jurisdiction's process for integrating the hazard mitigation plan into local planning mechanisms.

### 4.4.1 Existing Integration

The following plans and programs currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan:

- ❖ **General Plan, Chapter X, "Community Health And Safety"** - State law requires a General Plan address the protection of a community from the risks of natural hazards. Brisbane's plan exceeds this requirement by also speaking to the man-made hazards that are a part of urban life. The introduction to the safety element notes, "The underlying assumption of preparing the safety policy is that the City can reduce hazards if the probability of hazardous conditions is known in advance and plans for dealing with such conditions have been prepared." The requirements of this section are directly in alignment with the LHMP's goal of identifying natural hazards and of identifying strategies to mitigate them. The city's Safety Element in its General Plan has not been updated since 1994, but is scheduled for update in 2017. During that review, staff expects to adopt the LHMP within said element pursuant to AB 2140 (Hancock, 2006).
- ❖ **Brisbane Municipal Code - Chapter 2.28, "Disaster Services Council"** - This section of the municipal code creates a disaster services council and the positions of Director and Assistant Director of Emergency Services. The legislated purposes of this chapter are to "... provide for the preparation and carrying out of plans for the protection of persons and property within the city in the event of an emergency; the direction of the emergency organization; and the coordination of the emergency functions of the city with all other public agencies, corporations, organizations, and affected private



persons. Given that the local Office of Emergency Services has overall responsibility for implementing the LHMP, the creation of the Disaster Services Council and Office of Emergency Services is directly in alignment with the LHMP's goal of establishing a coordinated approach to implementing the plan.

- ❖ **California Environmental Quality Act, "Brisbane Baylands Draft Environmental Impact Report"** - The city is closely following these requirements as it reviews a planning application for an approximately 640-acre parcel that is directly connected to the San Francisco Bay by way of two primary drainage facilities. CEQA review is clearly in line with the LHMP's goal of identify natural hazards and identifying mitigation for it. For instance, there are specific chapters of the EIR that delve deeply into associated impacts of the project based on air quality, seismology, surface water hydrology, greenhouse gas emissions, etc.
- ❖ **North County Fire Authority 2004 Wildland Pre-Fire Attack Plan** - the cities of Daly City, Pacifica and Brisbane have entered into a JPA where administrative oversight and training of fire departments is provided by Daly City to the other cities. Two of the signatory cities are located in a potential urban wildland fire boundary on San Bruno Mountain. In response to this, NCFCA developed and conducts an annual exercise plan that encompasses familiarization training with the boundary, integration of multiple fire responders (including Cal FIRE land and air crews), and citizen evacuation awareness. Extensive pre-planning to mitigate the effects of a fire on San Bruno Mountain is clearly consistent with the goals of the LHMP.

#### 4.4.2 Opportunities for Future Integration

The following plans and programs do not currently integrate the goals, risk assessment and/or recommendations of the hazard mitigation plan, but provide an opportunity for future integration:

- ❖ **2015 Climate Action Plan** - Brisbane's holistic approach to addressing climate change was recognized when we became the first California city to win a Gold Beacon Award from the Institute for Local Government. The continuing implementation of the CAP is consistent with the LHMP's goal of mitigating natural hazards, in that it works to slow the impacts of climate change, and the associated risks of increased sea levels, higher summer temperatures, prevalence, and strength of storms, etc.
- ❖ **Sea Change San Mateo County** - the city is an active participant in a multi-stakeholder broad coalition of governments that is completing a sea level rise vulnerability assessment to test and plan for the future resilience of our community. The results of this study will provide information on the hazard and potential mitigations for multiple sea level rise scenarios.
- ❖ **2003 Storm Drainage Master Plan** - the largest dollar amount of structural projects identified in this plan are located in the planning application area known as the Baylands (see third bulleted item above in "Existing Integration"). If and when that project successfully completes the myriad planning processes and results in a development, the majority of the SD improvements necessary to mitigate flooding in this area have already been pre-studied. Pre-identification of natural hazards (i.e., flooding) and requiring mitigation of same while a land area is being developed from its current status as a brownfield is clearly consistent with the LHMP.



## 4.5 Jurisdiction-Specific Natural Hazard Event History

Table 4-6 lists all past occurrences of natural hazards within the jurisdiction.

TABLE 4-6. NATURAL HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Severe Storm	N/A	2/6/15	none submitted
Severe Storm	N/A	Dec 2015	none submitted
Drought	N/A	1/17/14 - ?	none submitted
Drought	N/A	2/27/09	none submitted
Severe Storms	DR 1646	Spring 2006	\$340,000
Severe Storms	DR 1628	Dec 05/Jan 06	\$350,000 (includes Emergency Relief Funds from FHWA)
El Nino (Severe Storms)	DR 1203	2/2/98	not available
Loma Prieta Earthquake	845-DR-CA	10/17/89	not available
Severe Storms	651-DR-CA	January 1982	not available
Landslide	N/A	Winter 1980	not available - 12 homes damaged
Flood and Storms	not available	Fall 1962	not available

In addition to the Natural Hazards listed above, the city's emergency services organization also responded to the following major events:

TABLE 4-7. HEALTH AND HUMAN CAUSED HAZARD EVENTS

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Ebola Threat Preparedness	N/A	Fall 2014	none submitted
SFO Air Crash (Asiana 214) mutual aid response	N/A	7/6/13	none submitted
Swine Flu	N/A	4/28/09	none submitted
Oil Spill (COSCO BUSAN)	N/A	11/9/07	none submitted - minimal
Gasoline Shortage	N/A	1979	none submitted
Gasoline Shortage	N/A	March 1974	none submitted

## 4.6 Jurisdiction-Specific Vulnerabilities

Repetitive loss records are as follows:

- ❖ Number of FEMA-identified Repetitive-Loss Properties: 0
- ❖ Number of FEMA-identified Severe-Repetitive-Loss Properties: 0
- ❖ Number of Repetitive-Loss Properties or Severe-Repetitive-Loss Properties that have been mitigated: 0

**Other noted vulnerabilities include:**

Due to the city limits being contiguous with the State & County Park of San Bruno Mountain, most of our southern and western city limit is a wildland urban interface potential fire area. The adjacent State parkland has been designated a State Responsibility Area, where the State of California is financially responsible for the prevention and suppression of wildfires. Fires have periodically occurred in this area since recorded time prior to the city's incorporation in 1961, with the most recent major event occurring in 2006. Although these events have fortunately not expanded to require a state proclamation or federal declaration of disaster, the potential impact of fires originating in the wildland and impacting the urban area of Brisbane is an ongoing focus of concern.

The city's mountainous topography and older roadway network has created at least one location that is exceptionally difficult to access by emergency equipment (specifically, fire engines & ladder trucks are unable to utilize this roadway). This roadway also adjoins an area that experienced a significant mudslide in 1980. A reconfiguration of Glen Park Way at its intersection with Humboldt Road is necessary to ensure ingress for emergency responders and egress for evacuees, particularly in the event of an urban wildland interface fire.

The scientific community is in a majority consensus that Sea Level Rise (SLR) is an upcoming vulnerability that will have to be addressed. The largest question as we prepare for SLR is to determine the timeframe and a most probable upper boundary of SLR that needs to be accommodated. Brisbane is participating in a San Mateo County led effort, "Sea Change San Mateo County", which has produced preliminary model results indicating that portions of our land mass known as "Sierra Point" (housing an office park and the city's 580-slip marina) could be overtopped under certain scenarios. One, and possibly two, pump stations are in potential SLR induced flooding zones.

Two facilities within the city need new or upgraded standby generators, Fire Station 81 and City Hall. The fire station's generator needs replacement due to age. City Hall's generator needs to be upsized to accommodate the relocation of the city's primary Emergency Operations Center to this location, especially in light of FEMA's pending NIMS update that proposes to create "Center Management Systems" that are expected to be supported primarily by day-to-day staff working from their traditional assigned workspace (i.e., City Hall).

## 4.7 Hazard Risk Ranking

Table 4-8 presents the ranking of the hazards of concern.

TABLE 4-8. HAZARD RISK RANKING

Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
1	Earthquake	48	High
2	Wildfire	36	High
3	Severe Weather	33	Medium
4	Flood	30	Medium
5	Landslide	9	Low
6	Drought	3	Low





Rank	Hazard Type	Risk Rating Score (Probability x Impact)	Category
7	Tsunami	0	Low
8	Dam Failure	0	Low

## 4.8 Hazard Mitigation Action Plan and Evaluation of Recommended Actions

Table 4-9 lists the actions that make up the City of Brisbane’s hazard mitigation action plan. Table 4-10 identifies the priority for each action. Table 4-11 summarizes the mitigation actions by hazard of concern and the six mitigation types.

Table 4-9. Hazard Mitigation Action Plan Matrix						
Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
<b>BB-1</b> —Where appropriate, support retrofitting structures against earthquake.						
Existing	Earthquake	1, 2, 11	Planning and Community Development (PCD)	High	HMGP, PDM, FMA	On-going
<b>BB-2</b> —Integrate the hazard mitigation plan into other plans, ordinances and programs that dictate land use decisions within the community.						
New and Existing	All Hazards	2, 4	PCD* and Office of Emergency Services (OES)	Low	Staff Time, General Funds	On-going
<b>BB-3</b> —Develop and implement a program to capture perishable data after significant events (e.g. high water marks, preliminary damage estimates, damage photos) to support future mitigation efforts including the implementation and maintenance of the hazard mitigation plan. Additionally, develop a cost tracking system that will ensure maximum FEMA/CDAA reimbursement from recovery through response phases of disasters.						
Existing	All Hazards	1, 2, 4, 5	OES	Medium	Staff Time, General Funds	Short-term
<b>BB-4</b> —Support the Countywide initiatives identified in Volume I of the hazard mitigation plan.						
New and Existing	All Hazards	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11	OES	Low	Staff Time, General Funds	Short-term
<b>BB-5</b> —Actively participate in the plan maintenance protocols outlined in Volume I of the hazard mitigation plan.						
New and Existing	All Hazards	1, 2, 3, 5, 6	OES	Low	Staff Time, General Funds	On-going
<b>BB-6</b> — Continue to maintain good standing and compliance under the National Flood Insurance Program (NFIP). This will be accomplished through the implementation of floodplain management programs that will, at a minimum, meet the requirements of the NFIP:						
<ul style="list-style-type: none"> <li>• Enforcement of the flood damage prevention ordinance</li> <li>• Participate in floodplain identification and mapping updates</li> <li>• Provide public assistance/information on floodplain requirements and impacts.</li> </ul>						



Table 4-9. Hazard Mitigation Action Plan Matrix

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
New and Existing	Flood	1, 4, 5, 8	Public Works (PW)	Low	Staff Time, General Funds	On-going
<b>BB-7</b> —Continue to update local building codes with ICB and state building code revisions, and apply these standards to public and private renovation, replacement, and development.						
New	Earthquake, Flood, Landslide, Severe Weather, Wildfire	2, 3, 4, 7	PCD* and OES	Low	Staff Time, General Funds	Short-term
<b>BB-8</b> —Continue to refine a post-disaster recovery plan and a debris management plan.						
Existing	All Hazards	1, 2, 5, 6	OES	Low	EMPG	Long-term
<b>BB-9</b> —Critical Facility Upgrade. Provide new standby generator for Fire Station 81, and provide upgraded standby generator at City Hall to accommodate relocation of EOC to that facility.						
Existing	All Hazards	1, 4, 9	OES* and PW	Low	HMA Grant, General Fund	Short-term
<b>BB-10</b> —Critical Fuel Supply. Provide local fuel supply (none presently exists in the community) capable of supporting 3-5 days of fuel needs for emergency responders and standby generators (including those at water & sewer pump stations).						
Existing	Earthquake, Severe Weather	1, 4, 6	OES* and PW	Medium	HMA Grant, General Fund	Long-term
<b>BB-11</b> —Emergency responder ingress/egress. Design and construct a new intersection at Glen Park Way/Humboldt Road that will allow emergency responders access from the southern portion of the community, which is adjacent to an urban wildland interface.						
Existing	Earthquake, Landslide, Wildfire	1, 4, 7	OES and PW*	High	HMA Grant, General Fund	Long-term
<b>BB-12</b> —Mutual Aid. Continue to participate in the San Mateo County Operational Area Emergency Services Organization, the San Mateo County Emergency Managers Association, and the San Mateo County Public Works Mutual Aid Agreement to leverage the city’s ability to respond to emergencies.						
Existing	All Hazards	1, 2, 3, 5, 6, 8	OES*, PW, Brisbane Police Department, and Brisbane Fire Department	Low	Staff Time, General Fund	On-going
<b>BB-13</b> -Disaster Response Staff Training. Continue to identify and provide training for response personnel.						
Existing	All Hazards	1, 2, 3, 5, 6	OES	Low	Staff Time, General Fund	On-going
<b>BB-14</b> —Sea Level Rise Vulnerability Assessment. Continue participation in the San Mateo County led effort, “Sea Change San Mateo County”, to develop an understanding of future vulnerability.						
Existing	Flood	1, 2, 3, 5, 6	OES, PW*, and PCD	Low	For current study, the project is fully funded via San Mateo County and external grants	Long-term



**Table 4-9. Hazard Mitigation Action Plan Matrix**

Applies to new or existing assets	Hazards Mitigated	Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Timeline
Existing	All	1, 3, 4, 5, 6, 7, 11	Jurisdictions	High	FEMA Hazard Mitigation Grants	Long-term (depending on funding)

\* Identified Lead Agency

**TABLE 4-10. MITIGATION STRATEGY PRIORITY SCHEDULE**

Action #	# of Objectives Met	Benefits	Costs	Do Benefits Equal or Exceed Costs?	Is Project Grant-Eligible?	Can Project Be Funded Under Existing Programs/Budgets?	Implementation Priority <sup>a</sup>	Grant Priority <sup>a</sup>
BB-1	3	High	High	Yes	Yes	No	Medium	High
BB-2	2	Medium	Low	Yes	No	Yes	High	Low
BB-3	4	Low	Low	Yes	No	Yes	High	Low
BB-4	11	Low	Low	Yes	No	Yes	High	Low
BB-5	5	Low	Low	Yes	No	Yes	High	Low
BB-6	4	Medium	Low	Yes	No	Yes	High	Low
BB-7	4	Medium	Low	Yes	No	Yes	High	Low
BB-8	4	Medium	Low	Yes	Yes	Yes	High	Low
BB-9	3	Medium	High	No	Yes	No	Medium	High
BB-10	3	Medium	High	No	Yes	No	Medium	High
BB-11	3	High	High	Yes	Yes	No	Medium	High
BB-12	6	Medium	Low	Yes	No	Yes	High	Low
BB-13	5	Medium	Low	Yes	No	Yes	Medium	Low
BB-14	5	Low	Low	Yes	No	Yes	Medium	Low
G-1	7	High	High	Yes	Yes	No	High	High

**TABLE 4-11. ANALYSIS OF MITIGATION ACTIONS**

Hazard Type	Action Addressing Hazard, by Mitigation Type <sup>a</sup>					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Earthquake	BB-2, BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4		BB-8, BB-9, BB-10, BB-11, BB-12, BB-13	
Wildfire	BB-2, BB-3, BB-4, BB-5, BB-7	BB-1, BB-7	BB-4		BB-8, BB-11, BB-12, BB-13	





Hazard Type	Action Addressing Hazard, by Mitigation Type <sup>a</sup>					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Severe Weather	BB-2, BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4		BB-8, BB-9, BB-11, BB-12, BB-13	*
Flood	BB-2, BB-3, BB-4, BB-5, BB-6, BB-7, BB-8	BB-1, BB-6, BB-7	BB-4, BB-6		BB-8, BB-12, BB-13, BB-14	*
Landslide	BB-3, BB-4, BB-5, BB-7, BB-8	BB-1, BB-7	BB-4	BB-2	BB-8, BB-11, BB-12, BB-13	
Drought	BB-2, BB-3, BB-4, BB-5, BB-8	BB-1	BB-4		BB-8	
Tsunami	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk
Dam Failure	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk	N/A - 0 Risk

Note: see third bullet point under “Opportunities for Future Integration” regarding discussion on storm drain structural projects that will address flooding issues.















